
Northeastern Illinois Regional ITS Architecture Documentation

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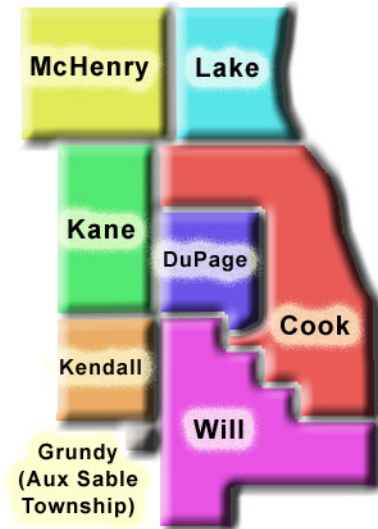
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1. Introduction

The *Northeastern Illinois Regional Intelligent Transportation Systems (ITS) Architecture* is a roadmap for transportation systems integration in the seven county (Cook, DuPage, Kane, Kendall, Lake, McHenry, Will, and a portion of Grundy) Northeastern Illinois region over the next 15 years. The architecture has been developed through a cooperative effort by the region's transportation agencies, covering all modes and all roads in the region. The most recent update to the architecture occurred in December, 2007. The architecture represents a shared vision of how each agency's systems will work together in the future, sharing information and resources to provide a safer, more efficient, and more effective transportation system for travelers in the region.



The architecture is an important new tool that will be used by:

- Operating Agencies to recognize and plan for transportation integration opportunities in the region.
- Planning Agencies to better reflect integration opportunities and operational needs into the transportation planning process.
- Other organizations and individuals that use the transportation system in the Northeastern Illinois region.

The architecture provides an overarching framework that spans all of these organizations and individual transportation projects. Using the architecture, each transportation project can be viewed as an element of the overall transportation system, providing visibility into the relationship between individual transportation projects and ways to cost-effectively build an integrated intelligent transportation system over time.

Background

The Strategic Early Deployment Plan (SEDP) identified in 1999 a need for a regional ITS architecture. A preliminary, high level architecture of key regional systems was prepared through the Gary-Chicago-Milwaukee Corridor Multi-Modal Traveler Information System (GCM/MMTIS) and is described in the SEDP and in GCM documentation. The GCM Gateway project also developed a project architecture in 1996.

An Illinois Department of Transportation (IDOT) and Chicago Metropolitan Agency for Planning (CMAP), formerly Chicago Area Transportation Study (CATS), sponsored Tier I regional architecture workshop was held in July 2000 to continue the development of the preliminary regional architecture. This one-day workshop gathered local transportation stakeholders and introduced the basic steps and concepts necessary to continue the development of a regional ITS architecture.

GCM and SEDP documentation, along with an updated inventory of existing and planned ITS systems and services, set the stage for the IDOT/ CMAP sponsored Tier II architecture workshop held on March 20-22, 2001. This workshop used the GCM and SEDP documentation, along with an updated inventory of existing and planned ITS systems and services as an input to create, with key input from the workshop participants, a regional architecture using the Turbo Architecture tool.

The Tier II workshop focused on architecture details such as identifying where exchanges of information are needed between different systems, tailoring architecture flows to northeastern Illinois conditions, and identifying specific information to be exchanged on selected system interfaces. An initial regional architecture database was created from the Tier II workshop with the Turbo Architecture tool. This database served as the basis for a detailed GCM architecture that was created and documented in 2001. This Northeastern Illinois Regional ITS Architecture is an outgrowth of the Tier II workshop effort, with the goal of completing the regional ITS architecture that was started during the workshop. The following section provides a summary of the project.

1.1. Project Overview

CMAP is responsible for coordinating the development of and maintaining the regional ITS architecture for northeastern Illinois. To develop and document the base regional ITS architecture and maintain it, CMAP and IDOT initiated the Regional ITS Architecture for Northeastern Illinois Project. The first phase of the project involved the development of the base architecture and a maintenance plan, which is documented in this report. The second phase consisted of the implementation of the maintenance plan, which will be part of a separate Phase II project. In 2007, CMAP initiated an update to the base regional ITS architecture. Tasks associated with development and updating of the regional architecture are as follows:

1. Technical Review of Existing Documentation
2. Outreach and Stakeholder Participation
3. Develop/Update Base Architecture
4. Communications White Paper
5. Develop/Assess Architecture Maintenance and Operating Plan

Task 1 involved the gathering and reviewing of existing architecture documentation that had been developed in the Northeastern Illinois region. The documentation includes the GCM Corridor reports, Gateway preliminary architecture, SEDP for ITS in Northeastern Illinois and its 2005 update, Regional Transportation Authority (RTA) Regional Transit ITS Plan (RTIP), the Chicago Traffic Management Center Project Development Report (Draft), the documented inventory and results from the Tier I and II Architecture workshops, various ITS studies from county transportation agencies, and the Illinois Statewide ITS Architecture. The inventory provides useful information for outreach discussions, the base architecture, and the communication infrastructure.

Task 2 involved obtaining updated information on ITS-related activities and plans in the region and promoting knowledge and awareness of the architecture through discussions with the region's stakeholders. Discussions were held with regional and sub-regional implementers and stakeholders to identify architecture elements, integration opportunities, and informational sources and exchanges. The outreach effort included meetings, workshops, and the development of an article about the project for publicity. As part of the architecture update effort, four half-day workshops were held in the spring of 2007 to collect input from regional stakeholders in the areas of Emergency Management & Security, Arterial Management, Expressway Management, and Transit Management.

Task 3 involved the development and updating of the base regional ITS architecture. The architecture was represented as a Turbo Architecture database file and was based on the information gathered for Tasks 1 and 2. The base architecture included:

- A description of the region, participating agencies and other stakeholders.
- A description of the needs (e.g. user services) and ITS services (e.g. market packages) that the regional ITS architecture will provide.
- An operational concept that identifies the roles and responsibilities of participating agencies and other stakeholders in the operation and implementation of the elements included in the regional ITS architecture.
- System functional requirements.
- A description of the interface requirements and information exchanges with planned and existing systems and subsystems and architecture flows as defined in the National ITS Architecture.
- Projects that may require sequencing for implementation.
- Existing ITS standards to support regional and national interoperability.
- Agreements that are in place or may need to be considered for operations including those affecting ITS project interoperability, utilization of ITS related standards, and the operation of the projects identified in the regional ITS architecture.

Task 4 involved reviewing the information gathered from regional stakeholders to summarize the existing communications infrastructure. Areas of additional analyses

needed to support the architecture were identified. A summary was also provided to evaluate the usefulness of the communications infrastructure to the regional ITS architecture.

Because regional stakeholders will have ongoing ITS-related activities, the regional ITS architecture will continually change. This dynamic nature creates the need for a plan to maintain the architecture. Task 5 involved the development of an architecture maintenance plan, which included:

- Development of a process for updating/maintaining the regional architecture.
- Development of a process to ensure on-going architecture compliance (projects affecting the regional architecture).
- Relevant ITS standards and requirements with which the ITS architecture for northeastern Illinois must maintain compliance.
- Recommendation of additional standards, project staging, or project assimilation as appropriate to ensure interoperability, integration and to promote efficiencies of scale.

1.2. Document Overview

This document is organized into twelve main sections. Section 1 provides introductory information. Section 2 describes the process used to develop the regional ITS architecture. The stakeholders are identified in Section 3, while their systems are inventoried in Section 4. The transportation services, information exchanges, functional requirements, and standards associated with the systems are discussed in Sections 5, 6, 7, and 8, respectively. Section 9 describes regional projects and sequencing, while Section 10 discusses the agreements needed between stakeholders to maximize system benefits. Finally, Section 11 provides guidance on using the regional ITS architecture and Section 12 summarizes the architecture maintenance plan.

1.3. Description of the Region

The Northeastern Illinois region considered in the development of the regional ITS architecture included seven counties: Cook, DuPage, Kane, Kendall, Lake, McHenry, Will, and a portion of Grundy. The region is characterized by both large area (3700 square miles) and large population (8.1 million in the 2000 census). It has an extensive transportation system, with 23,903 miles of streets and highways, including 4,264 miles of interstate, freeways, and principal and minor arterials. The region's freeway/tollway system has a radial configuration centered on downtown Chicago with circumferential highway connections. The fixed-guideway public transportation system, provided by the Chicago Transit Authority (CTA) and Metra, also has a radial configuration centered at downtown Chicago. Circumferential public transportation routes are limited to the CTA transit loop within downtown Chicago. CTA operates 1,190 cars on eight rapid transit lines, covering 222 track miles with 144 stations. Metra operates 1,145 vehicles over 546

route miles, serving 230 stations. Arterial roads are configured in a grid pattern in both the City of Chicago and the suburbs. Bus service is provided by the CTA as well as Pace, which focuses on service to the suburbs. CTA operates approximately 2,300 buses that operate over 152 routes and 2,033 route miles with 12,000 posted bus stops. Pace operates on 240 fixed routes with 638 buses, with a service area of over 3,500 square miles. The region is the center for significant air travel with the presence of O'Hare International Airport and Midway Airport. The region is also a favorable geographic position for the U.S. domestic freight rail and truck system.

The regional ITS architecture for Northeastern Illinois provides approximately a 15-year outlook for ITS activities in the region. The architecture addresses existing ITS systems as well as those planned for development over the next 15 years. It represents a snapshot of the currently anticipated projects based on information from stakeholders. As such, the architecture will require regular updates to ensure that it maintains accurate representation of the region. The architecture covers services across a broad range of ITS, including traffic management, transit management, traveler information, emergency services, archived data management, maintenance and construction operations, and electronic payment. Commercial vehicle services are covered as they relate to regional integration, but a more complete coverage of these can be found in the Illinois Statewide ITS Architecture.

2. Regional ITS Architecture Development Process

2.1. Process used to create the architecture

The stakeholders in the region recognized the benefits from taking a coordinated approach to implementing each of their individual systems. The regional ITS architecture provides the outline for the coordination. Development of the preliminary architecture began in 1999 as part of the SEDP and Gateway Traveler Information System design. In 2000, IDOT / CATS sponsored a Tier I Regional Architecture Workshop which continued the development of the architecture by gathering stakeholders to discuss how their systems fit into the National ITS Architecture framework. Creation of a draft regional ITS architecture was begun at a three-day IDOT/ CMAP sponsored Tier II workshop in March 2001. A GCM Corridor ITS Architecture, using the results of the Tier II workshop as its base, was completed in July 2001 in conjunction with the 2001 Corridor Program Plan Update.

Regional ITS architecture development began under previous efforts and to develop a plan for its continued maintenance. A four-step process was used: 1) create an initial draft architecture, 2) conduct stakeholder outreach, 3) create a pre-final architecture for review, and 4) finalize a base architecture based on review comments. The architecture update process used the same four steps, with the base architecture serving as the draft architecture in step one. A review of existing documentation was used to establish the

draft architectures. The outreach effort for initial architecture development included fourteen technical meetings and a “Tier III” workshop to obtain updated information on the systems and plans of the regional stakeholders and to promote awareness of the architecture. For the update, four half-day workshops were held in the spring of 2007 to collect input from regional stakeholders in the areas of Emergency Management & Security, Arterial Management, Expressway Management, and Transit Management. The information received through the outreach was used to develop the pre-final architecture in step three. The pre-final architecture was distributed for final comments, which were incorporated to finalize the base architecture (stakeholders comments and dispositions are presented in Appendix A.). As part of the original architecture process, a summary of the existing communications infrastructure was also prepared to highlight its usefulness and relation to the architecture. In recognition of the dynamic nature of ITS activities, a maintenance plan was developed to provide a systematic means of keeping the architecture updated. The architecture update in 2007 included a review of this maintenance plan.

2.2. Requirements of the Final FHWA Rule and FTA Policy on Architecture

The FHWA Final Rule (23CFR 940) and FTA Policy on Intelligent Transportation System Architecture and Standards, which took effect on April 8, 2001 defines a set of requirements that regional ITS architectures should meet. Table 1 shows how the requirements of the rule are met by the outputs developed for the Northeastern Illinois Regional ITS Architecture.

Table 1: Mapping of Requirements to Architecture Outputs

Regional ITS Architecture Requirements	Where Requirements documented
Description of region	Geographic definition, as well as timeframe and scope of services are given in Section 1.3 of this document.
Identification of participating agencies and other stakeholders	Listing of stakeholders and their definitions is given in Section 3.1 of this document. An inventory of the elements operated by the stakeholders is contained in Section 4 of this document. The same information is also available in the hyperlinked web site and in the Turbo Architecture database.
An operational concept that identifies the roles and responsibilities of participating agencies and stakeholders	The operational concept is defined in Section 3.2 of this document.
A list of any agreements (existing or new) required for operations	A discussion of existing and needed new agreements is given in Section 10 of this document

Regional ITS Architecture Requirements	Where Requirements documented
System functional requirements;	The functional requirements of the ITS systems are described in an overview in Section 7 of this document, and are provided in detail in the hyperlinked web site.
Interface requirements and information exchanges with planned and existing systems and subsystems	The interfaces and information flows are described in an overview in Section 6 of the document, and are described in detail in the hyperlinked web site and in the Turbo Architecture database.
Identification of ITS standards supporting regional and national interoperability	An overview of the ITS standards is given in Section 8 of the document. The detailed listing of ITS standards applicable to each interface in the architecture is described in the hyperlinked web site and in the Turbo Architecture database.
The sequence of projects required for implementation	Projects and their sequencing are covered in Section 9 of this document.

3. Identification of Stakeholders



3.1. Regional Stakeholders

Stakeholder coordination and involvement is one of the key elements of the development of a regional ITS architecture. Because ITS often transcends traditional transportation infrastructure, it is important to consider a range of stakeholders beyond the traditional traffic, transit, and maintenance areas. In addition, it is important to consider stakeholders at a statewide level or stakeholders in adjoining regions.

The Northeastern Illinois Regional ITS architecture includes a wide range of stakeholders. Table 2 identifies the stakeholders and provides a description of the agency, department, or organization represented by the stakeholder.


Table 2: Stakeholders


Stakeholder Name	Stakeholder Description
Academic/Research Organizations	Regional Colleges, Universities, and Research Groups. This includes Univ of Illinois Chicago, Northwestern, University of Chicago, Northeastern Illinois University, Illinois Institute of Technology, Argonne National Labs and others.
AMTRAK	Nationwide Passenger Rail Organization with regional hub in downtown Chicago.
Area Media Outlets	Television, Radio, and Print Media. Includes TV network affiliates, radio stations, Chicago Tribune, Chicago Sun-Times and others.
Centerpoint Development	Stakeholder responsible for the development of the new Intermodal Facility in Will County.

Stakeholder Name	Stakeholder Description
 Arterial Performance Monitoring System Joint Venture Group	Includes ISTHA, RTA, IDOT, City of Chicago OEMC TMA.
Building Owners and Managers Association (BOMA)	BOMA International is a primary source of information on office building development, leasing, building operating costs, energy consumption patterns, local and national building codes, legislation, occupancy statistics and technological developments.
Chicago Bureau of Convention and Tourism	The sales and marketing organization charged with bringing both business and leisure visitors to Chicago, actively booking group meetings at McCormick Place and Navy Pier, and promoting Chicago as a destination to the visitor industry.
Chicago Metropolitan Agency for Planning (CMAP)	The land use and transportation planning agency of the Chicago metropolitan area.
Chicago Park District	The Chicago Park District manages over 220 facilities throughout the city including Soldier Field. The Chicago Park District manages more than 7300 acres of parkland, 552 parks, 33 beaches, nine museums, two world-class conservatories, 16 historic lagoons, and 10 bird and wildlife gardens.
Chicago Transit Authority	CTA provides bus and rapid transit rail service to the city of Chicago and 40 neighboring suburbs.
City of Chicago	Major city in northeast Illinois along Lake Michigan with population over 2.8 million, two airports, and 43 departments including Aviation, Emergency Management and Communications, Streets & Sanitation, and Transportation.
 City of Chicago / SCC	Stakeholder group that represents the owners (City of Chicago) and the operators/maintainers (SCC) of the Chicago Skyway.
City of Chicago Department of Aviation	City agency that manages the Chicago Airport System, which is comprised of two major airports - Chicago O'Hare International Airport and Midway Airport.
City of Chicago Department of Streets and Sanitation	City of Chicago Department of Streets and Sanitation includes the Bureaus of Street Operations, Traffic Services, and Electricity.
City of Chicago Department of Transportation	City of Chicago Department of Transportation includes the Bureau of Streets, which is responsible for asphalt and concrete maintenance and the Bureau of Traffic which is responsible for operating the city's traffic signal systems.
City of Chicago OEMC and TMA	<p>This department of the City of Chicago provides emergency call taking (9-1-1) for the City of Chicago. It also provides Police Operations, Fire Operations, 3-1-1 Services Training, Facility Services, Finance and Administrative Services.</p> <p>Chicago Traffic Management Authority (TMA) manages the Traffic management center (TMC) and operates the traffic.</p>
Cook County Highway Department	County agency that develops, operates, and maintains Cook County highways, including pavement patching, mowing, tree branch trimming and snow and ice control.
Cook County Sheriff	Cook County Sheriff provides public safety dispatch and emergency call taking services for Cook County.

Stakeholder Name	Stakeholder Description
Cook County Sheriff Emergency Management Agency	The Cook County Sheriff's Emergency Management Agency (EMA); responsible for providing comprehensive emergency management system that integrates all departments, levels of government, and the private sector during disasters.
 County/Municipal Paratransit Services	This includes all the county/municipal paratransit service providers in the region.
Department of Homeland Security	The Department of Homeland Security leverages resources within federal, state, and local governments, coordinating the transition of multiple agencies and programs into a single, integrated agency focused on protecting the American people and their homeland.
DuPage County Division of Human Services	Department of DuPage County responsible for enabling and equipping people with needs in DuPage County to become self-sufficient and lead enriched productive lives.
DuPage County Division of Transportation	The Division of Transportation is responsible for the construction and maintenance of the County Highway system which serves the over 900,000 residents of DuPage County. The Division of Transportation maintains approximately 220 miles of arterial highways and 50 miles of recreational trails in DuPage County.
DuPage County Office of Homeland Security and Emergency Management	The Office of Homeland Security and Emergency Management coordinates the operations of all governmental and non-governmental agencies in time of emergency and provides the unique skills and capabilities related to disaster preparedness.
DuPage County Sheriff	The Sheriff is the chief law enforcement officer in DuPage County. The Office directly services the unincorporated areas of the county providing public safety dispatch and emergency call taking.
DuPage Mayors and Managers Conference	The DuPage Mayors and Managers Conference is a council of 36 municipal governments in DuPage County. The Conference is a not-for-profit organization dedicated to addressing municipal public policy issues.
Federal Bureau of Investigation	The Federal Bureau of Investigation (FBI) is the investigative arm of the US Department of Justice.
Gary-Chicago-Milwaukee Corridor Coalition	Coalition formed between the states of Indiana, Illinois, and Wisconsin to apply ITS in the corridor connecting Gary-Chicago-Milwaukee.
Grundy County Highway Department	County agency that develops, operates, and maintains Grundy County highways, including pavement patching, mowing, tree branch trimming and snow and ice control.
Grundy County Office of Emergency Management	Grundy County Office of Emergency Management coordinates county emergency management activities including disaster response and evacuation.
Grundy County Sheriff	Grundy County Sheriff provides public safety dispatch and emergency call taking primarily for the unincorporated areas of the county.
Illinois Commerce Commission	State agency responsible under Illinois law for ensuring the citizens of Illinois safe, efficient, reliable, and uninterrupted utility service at reasonable prices; regulating the financial organization of utility companies so that they provide such services, and, at the same time, providing utility companies with

Stakeholder Name	Stakeholder Description
	the opportunity to earn a reasonable profit; regulating the common carriers and contract motor carriers of property operating within Illinois; ensuring the public safety through the inspection of railroads and natural gas pipelines operating within Illinois; and assisting the development and implementation of local 9-1-1 emergency telephone systems throughout Illinois.
Illinois County Emergency Services	Represents the agencies that own and operate EOCs in counties adjoining the Northeastern Illinois region.
Illinois Dept of Revenue	State agency that manages taxes for Illinois.
Illinois Dept of Transportation Central Bureau of Bridges and Structures	The IDOT Central Bureau of Bridges and Structures is responsible for the construction and inspection of road and bridge structures on the state highway system.
Illinois Dept of Transportation Central Bureau of Information Processing	The IDOT Central Bureau of Information Processing (BIP) is responsible for information technology (IT) applications throughout IDOT, including hardware and software procurement and integration.
Illinois Dept of Transportation Central Bureau of Operations	State bureau within the IDOT Division of Highways responsible for the operation of the state highway system and the state's local roads and streets.
Illinois Dept of Transportation District 1 Bureau of Construction	Bureau under IDOT District 1 - Project Implementation responsible for the construction of the state highway system and the state's local roads and streets.
Illinois Dept of Transportation District 1 Bureau of Electrical Operations	State bureau under IDOT District 1 - Operations responsible for the operations of electrical equipment along the state highway system and the state's local roads and streets.
Illinois Dept of Transportation District 1 Bureau of Maintenance	Bureau under IDOT District 1 - Operations responsible for the maintenance of the state highway system and the state's local roads and streets.
Illinois Dept of Transportation District 1 Bureau of Traffic	Bureau under IDOT District 1 - Operations responsible for the design of traffic control equipment along the state highway system and the state's local roads and streets.
Illinois Dept of Transportation District 1 Operations	Group in IDOT District 1 that includes the Bureaus of Electrical Operations, Maintenance, and Traffic
Illinois Dept of Transportation Division of Traffic Safety	Division of IDOT that is responsible for highway safety activities, inspection of school buses, trucks and ambulances; and overseeing the transportation of hazardous materials.
Illinois Dept of Transportation ITS Program Office	Illinois Dept of Transportation ITS Program Office is a part of the IDOT Office of Programming and Planning. It houses the Gateway Traveler Information System.
Illinois Emergency Management Agency	State agency responsible for coordinating voluntary relief organizations and local, state, and federal EM agencies during emergencies
Illinois Environmental Protection Agency	State agency with the purpose of safeguarding environmental quality, consistent with the social and economic needs of the State, so as to protect health, welfare, property and the quality of life.
Illinois International Port District	City agency responsible for managing the City's marine ports.
Illinois Secretary of State	State office responsible for issuing driver licenses and registering vehicles, promoting organ donation awareness, and overseeing the Illinois State Library and administering the

Stakeholder Name	Stakeholder Description
	state's literacy efforts.
 Illinois State Police	A general stakeholder entry for the Illinois State Police used when reference is to the agency in general vs to a specific district.
Illinois State Police District 15	State police district dedicated to serving the Illinois Tollway.
Illinois State Police Districts 2, 5, and Chicago	State police districts that together cover the region of Northeastern Illinois.
Illinois State Toll Highway Authority	The authority responsible for providing and promoting a safe and efficient system of toll supported highways while ensuring the highest possible level of service for its motorists.
Independent School Districts	Represents the many school districts within the region.
Indiana Dept of Transportation	State department of transportation for Indiana, which provides transportation system that enhances mobility, stimulates economic growth, and integrates safety, efficiency and environmental sensitivity.
Indiana Dept of Transportation-Laporte District	Indiana DOT District located on Lake Michigan Southwestern Michigan border.
Indiana Public Safety Agencies	Indiana local public safety and dispatch agencies, including the Indiana Department of Homeland Security.
Indiana State Police	State police for Indiana that works with communities to improve public safety, enforces traffic and drug laws, investigates crimes and enforces the laws and regulations pertaining to commercial motor vehicles.
Indiana Toll Road Concession Company (ITRCC)	Formed by the Statewide Mobility Partners (SMP), a private joint venture, the ITRCC operates and maintains the Indiana Toll Road on behalf of the Indiana Department of Transportation as part of a 75-year lease on the facility.
Intermodal Yard Operators	Stakeholder responsible for the development and operation of intermodal facilities in the region
Kane County Division of Transportation	Kane County Division of Transportation has responsibility for traffic management of county roads.
Kane County Office of Emergency Management	Kane County Office of Emergency Management coordinates county emergency management activities including disaster response and evacuation.
Kane County Sheriff	Kane County Sheriff provides public safety dispatch and emergency call taking primarily for the unincorporated areas of the county.
Kendall County Highway Department	County agency that develops, operates, and maintains Kendall County highways, including pavement patching, mowing, tree branch trimming and snow and ice control.
Kendall County Office of Emergency Management	Kendall County Office of Emergency Management coordinates county emergency management activities including disaster response and evacuation.
Kendall County Sheriff	Kendall County Sheriff provides public safety dispatch and emergency call taking primarily for the unincorporated areas of the county.
Kenosha County Department of Public Works	Represents the department of Kenosha County responsible for roadway maintenance of county roads.

Stakeholder Name	Stakeholder Description
Kenosha County Public Safety Agencies	Represents county and municipal public safety agencies of Kenosha County Wisconsin. They provide public safety dispatch and emergency call taking for the county.
Kenosha Transit	City of Kenosha Department that controls local bus, streetcar, and Metra parking operations.
Lake County Division of Transportation	Lake County Division of Transportation has responsibility for traffic management of county roads.
Lake County Emergency Management Agency	County agency that operates under the day-to-day control of the sheriff and is responsible for developing a county-wide emergency preparedness plan.
Lake County Sheriff	Lake County Sheriff provides public safety dispatch and emergency call taking primarily for the unincorporated areas of the county.
McHenry County Division of Transportation	County department that provides transportation and planning to address the demands of maintaining the ever increasing lane miles in McHenry County in a safe and efficient manner, and implements improved Access management policies.
McHenry County Emergency Services and Disaster Agency	County agency responsible for developing a county-wide emergency preparedness plan to coordinate all resources in McHenry County for any foreseeable emergency or disaster-such as storms, air crashes, hazardous materials incidents, police emergencies, etc.
McHenry County Highway	County department that provides transportation and planning to address the demands of maintaining the ever increasing lane miles in McHenry County in a safe and efficient manner, and implements improved Access management policies.
McHenry County Sheriff	McHenry County Sheriff provides public safety dispatch and emergency call taking primarily for the unincorporated areas of the county.
Metra	Regional commuter rail agency that provides service from downtown Chicago to the outlying suburbs.
Metra Contract Carriers	Regional commuter rail agency that provides service from downtown Chicago to the outlying suburbs.
Metro Pier and Exposition Authority (MPEA)	Authority responsible for operation of Navy Pier and McCormick Place.
Municipalities/Townships	Represents the 276 municipalities located in NE Illinois.
National Weather Service (NWS)	Agency that provides weather updates at regional levels across the country
Northeastern Illinois Hospitals/Medical Centers	Represents Northeastern Illinois hospitals/medical centers.
 Northeastern Illinois Regional Data Archive and Management Group	This group is tasked with developing a regional transportation data archive for the Northeastern Illinois region to address interstate and expressway operational data.
Northwestern Indiana Commuter Transportation District	District created to maintain and preserve commuter rail service between South Bend and Chicago.
Pace	Public transportation provider for the Chicagoland area with a focus on travel between the suburbs and the City.
Police/Fire Chiefs Associations	Consists of various township/municipal associations of public safety agency chiefs. Includes both police and fire chief's associations

Stakeholder Name	Stakeholder Description
Private Bus Agencies	Represents private bus companies such as Greyhound.
Private Hazmat Agencies	Private companies with hazardous materials response teams.
Private ISPs	Private Information Service Providers, such as Westwood One (which includes Shadow Traffic and Metro Networks) and Mobility Technologies.
Private Parking Operators	Operators of private parking facilities operating in the region.
Private Sector Maintenance Contractor	Private maintenance contractors who perform maintenance on regional signal systems, HAR, DMS, lighting systems, and pumping stations.
Private Taxi Companies	Represents private taxi companies operating in the region.
Private Towing Companies	Represents private towing companies operating in the region.
Private Trucking Companies	Represents private trucking companies that operate in the region.
Private Weather Information Providers	Private Companies who provide customized transportation weather information.
Public and Non-Profit Paratransit Agencies	Agencies who provide services to those, such as the elderly or disabled, who cannot use conventional forms of public transportation.
Rail Freight Operators	Rail operators at the operations centers of private rail firms operating in the region.
Regional Airport Authority	Stakeholder charged with development and operation of the South Suburban Airport.
Regional Event Organizations	Represents the many organizations whose facilities hold events that have significant impact on traffic or transit.
Regional Transportation Authority	The financial oversight, regional planning, and funding body for the three public transit operators in Northeastern Illinois: the Chicago Transit Authority (CTA), Metra commuter rail and Pace suburban bus.
Skyway Concession Company (SCC)	The Chicago Skyway Concession Company, LLC (SCC) is a private joint venture that operates and maintains the Chicago Skyway on behalf of the City of Chicago as part of a 99-year lease on the facility.
Travelers	Users of Northeastern Illinois transportation systems.
US Coast Guard	Ninth District Coast Guard that patrols the Great Lakes Region, including Lake Michigan. Coast Guard is a part of the Department of Homeland Security.
US Navy	A part of the United States government Department of Defense, the US Navy is responsible for the operation of the Great Lakes Training Center.
Utility Companies	Represents utility companies including electric power, gas, communication, and water.
Violation Enforcement Processing Service	Service that provides red-light camera running enforcement control and processing, speed violation enforcement etc.
Volunteer Agencies (VOLAG)	Agencies that coordinate with emergency management agencies to support disaster response, e.g., Red Cross, Salvation Army.
Water Taxi Operators	Represents private companies that operate water taxis in the region.

Stakeholder Name	Stakeholder Description
Will County Department of Highways	Will County Department of Highways is responsible for Traffic Management and Maintenance activities on county roads.
Will County Emergency Management Agency	Will County Emergency Management Agency is responsible for emergency preparation and coordination of emergency response within Will County.
Will County Sheriff	Will County Sheriff provides county 911 services and public safety dispatch.
Wisconsin Dept of Transportation	State department of transportation for Wisconsin, which manages the state's highway system and various programs and services such as adopt-a-highway, bicycle and pedestrian transportation, and transportation planning.
Wisconsin Public Safety Agencies	Represents municipal public safety agencies, such as police, fire, EMS, and 911 operating in the counties of SE Wisconsin that border the Northeastern Illinois region, including the Wisconsin Department of Homeland Security.

The stakeholders listed in Table 2 represent a mix of specific agencies or organizations and generic names used to represent a variety of stakeholders. Examples of specific agency or organizations would be Metra and Illinois Department of Transportation District 1 Bureau of Traffic. An example of a generic stakeholder name would be Municipalities/Townships, which represents any of the municipalities in the region that have ITS elements.

3.2. Operational Concept

An Operational Concept documents each stakeholder's current and future roles and responsibilities in the operation of the regional ITS systems. The operational concept documents these roles and responsibilities across a range of transportation services. The services covered are:

- **Traffic Signal Control:** the development of signaling systems that react to changing traffic conditions and provide coordinated intersection timing over a corridor, an area, or multiple jurisdictions.
- **Freeway Control:** the development of systems to monitor freeway (or tollway) traffic flow and roadway conditions, and provide strategies such as ramp metering or lane access control to improve the flow of traffic on the freeway. Includes systems to provide information to travelers on the roadway.
- **Incident Management:** the development of systems to provide rapid and effective response to incidents. Includes systems to detect and verify incidents, along with coordinated agency response to the incidents.
- **Transit Management:** the development of systems to more efficiently manage fleets of transit vehicles or transit rail. Includes systems to provide transit traveler information both pre-trip and during the trip.

- **Traveler Information:** the development of systems to provide static and real time transportation information to travelers.
- **Emergency Management:** the development of systems to provide emergency call taking, public safety dispatch, and emergency operations center operations.
- **Maintenance and Construction Management:** the development of systems to manage the maintenance of roadways in the region, including winter snow and ice clearance. Includes the managing of construction operations.
- **Archive Data Management:** the development of systems to collect transportation data for use in non-operational purposes (e.g. planning and research).

Table 3 identifies the roles and responsibilities of key stakeholders for a range of transportation services.

Table 3: Stakeholder Roles and Responsibilities

Transportation Service	Stakeholder	Roles/ Responsibilities
Traffic Signal Control	City of Chicago Department of Transportation	<ul style="list-style-type: none"> • Operate traffic signal systems within the City of Chicago. • Interconnect with signal systems operated by Cook County Highway Department and IDOT District 1 Traffic. • Provide intersection signal priority for CTA and Pace buses.
	Cook County Highway Department	<ul style="list-style-type: none"> • Operate traffic signal systems for Cook County owned arterials. • Interconnect with signal systems operated by City of Chicago DOT, IDOT District 1 Traffic, and County Transportation agencies (DuPage, Kane, Lake, and Will). • Provide intersection signal priority for CTA and Pace buses.
	DuPage County Division of Transportation	<ul style="list-style-type: none"> • Operate traffic signal systems for DuPage County owned arterials. • Interconnect with signal systems operated by IDOT District 1 Traffic, City of Chicago Department of Aviation (O'Hare Airport), and County transportation agencies (Cook, Kane, and Will) • Provide intersection signal priority for Pace buses.
	IDOT District 1 Traffic	<ul style="list-style-type: none"> • Operate traffic signal systems for IDOT owned arterials within all six counties. • Interconnect with signal systems operated by City of Chicago DOT, and County transportation agencies (all six counties). • Provide intersection signal priority for CTA and Pace buses

Transportation Service	Stakeholder	Roles/ Responsibilities
	Kane County Division of Transportation	<ul style="list-style-type: none"> Operate traffic signal systems for Kane County owned arterials. Interconnect with signal systems operated by IDOT District 1 Traffic, and County transportation agencies (Cook, DuPage, and McHenry). Provide intersection signal priority for Pace buses.
	Kendall County Highway Department	<ul style="list-style-type: none"> Operate traffic signal systems for Kendall County owned arterials. Interconnect with signal systems operated by IDOT District 1 Traffic, and County transportation agencies (Cook, DuPage, and McHenry). Provide intersection signal priority for Pace buses.
	Lake County Division of Transportation	<ul style="list-style-type: none"> Operate traffic signal systems for Lake County owned arterials. Interconnect with signal systems operated by IDOT District 1 Traffic, and County transportation agencies (Cook and McHenry). Provide intersection signal priority for CTA and Pace buses.
	McHenry County Highway Department	<ul style="list-style-type: none"> Operate traffic signal systems for McHenry County owned arterials. Interconnect with signal systems operated by IDOT District 1 Traffic, and County transportation agencies (Kane and Lake). Provide intersection signal priority for Pace buses.
	Municipalities	<ul style="list-style-type: none"> Operate traffic signal systems for municipality owned arterials. Interconnect with signal systems in adjacent jurisdictions.
	Will County Department of Highways	<ul style="list-style-type: none"> Operate traffic signal systems for Will County owned arterials. Interconnect with signal systems operated by IDOT District 1 Traffic, Indiana DOT, and County transportation agencies (Cook and DuPage). Provide intersection signal priority for Pace buses
Freeway Control	City of Chicago Bureau of Street Operations	<ul style="list-style-type: none"> Provide traffic information reports to Illinois Gateway
	IDOT District 1 Electrical Operations	<ul style="list-style-type: none"> Operate Kennedy Expressway Reversible Lane Control (REVLAC) System Operate Roosevelt Road ramp control system Operate Traffic Information Devices on Kennedy Expressway (e.g. DMS) Coordinate collection and distribution of video on all IDOT systems (not just Kennedy).

Transportation Service	Stakeholder	Roles/ Responsibilities
	IDOT District 1 Traffic	<ul style="list-style-type: none"> • Monitor traffic sensors on expressways • Determine travel times for expressways • Operate ramp meters on entrances to expressways Operate traffic information devices on expressways (e.g. DMS and Highway Advisory Radios- HAR) • Provide traffic information reports to media • Provide traffic information reports to Illinois Gateway
	Illinois State Toll Highway Authority	<ul style="list-style-type: none"> • Monitor traffic sensors on Illinois Toll Roads • Determine travel times for Illinois Toll Roads • Operate DMS on Illinois Toll Roads • Provide traffic information reports to Illinois Gateway
Incident Management	City of Chicago DSS Bureau of Street Operations	<ul style="list-style-type: none"> • Provide incident information to Illinois Gateway
	City of Chicago Office of Emergency Mgmt and Comm	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the City of Chicago • Operate video surveillance cameras to detect and verify incidents within the Loop. • Dispatch Police, Fire, and EMS to incidents within the City of Chicago • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.
	City of Chicago DOT	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets in the City of Chicago through video surveillance. • Coordinate incident response with City of Chicago Office of Emergency Mgmt and Comm. • Operate Dynamic Message Signs on City of Chicago arterials to inform travelers of incidents • Provide incident information to Illinois Gateway
	Cook County Emergency Services	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the unincorporated portions of Cook County. • Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of Cook County • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.
	Cook County Highway Department	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets in the unincorporated portions of Cook County. • Coordinate incident response for unincorporated portions of Cook County with Cook County Emergency Services. • Operate DMS on Cook County arterials to inform travelers of incidents • Provide incident information to Illinois Gateway

Transportation Service	Stakeholder	Roles/ Responsibilities
	DuPage County Sheriff	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the unincorporated portions of DuPage County. • Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of DuPage County • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.
	DuPage County Division of Transportation	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets in the unincorporated portions of DuPage County. • Coordinate incident response for unincorporated portions of DuPage County with DuPage County Sheriff. • Operate DMS on DuPage County arterials to inform travelers of incidents • Provide incident information to Illinois Gateway
	Illinois Dept of Transportation District 1 Electrical Operations	<ul style="list-style-type: none"> • Provide centralized District 1 Incident coordination 24/7. • Perform incident detection and verification for portions of Expressway system. • Dispatch Emergency Traffic Partol (ETP) vehicles to incidents. • Dispatch IDOT District 1 maintenance vehicles to respond to incident related resource requests. • Coordinate incident response with Illinois State Police and county/ municipal public safety agencies. • Operate DMS and HAR on expressways to inform travelers of incidents • Provide incident information to Illinois Gateway
	Illinois Dept of Transportation District 1 Traffic	<ul style="list-style-type: none"> • Perform incident detection and verification at key Expressway locations. • Operate DMS and HAR on expressways to inform travelers of incidents • Provide incident reports to media • Provide incident information to Illinois Gateway • Coordinate incident response with Illinois Dept of Transportation District 1 Electrical Operations (IDOT District 1 Com Center)
	Illinois State Police District 15	<ul style="list-style-type: none"> • Dispatch State Police vehicles for incidents on the Tollway. • Coordinate incident response with Illinois State Toll Highway Authority • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.



Transportation Service	Stakeholder	Roles/ Responsibilities
	Illinois State Police Districts 2, 5, and Chicago	<ul style="list-style-type: none">• Dispatch State Police vehicles for incidents on the expressways in the region.• Coordinate incident response with Illinois Dept of Transportation District 1• Provide incident information to Illinois Gateway• Provide incident information to traffic and public safety agencies.
	Illinois State Toll Highway Authority	<ul style="list-style-type: none">• Perform incident detection for Tollways in region by receiving cell calls of incidents.• Perform incident detection and verification using video surveillance on key sections of Tollway.• Coordinate incident response with Illinois State Police• Dispatch maintenance assets to support incident response.• Report incidents to traffic management agencies, Illinois Gateway, and public safety agencies.
	Kane County Division of Transportation	<ul style="list-style-type: none">• Perform incident detection and verification for arterial streets in the unincorporated portions of Kane County.• Coordinate incident response for unincorporated portions of Kane County with the Kane County Sheriff.• Operate DMS on Kane County arterials to inform travelers of incidents• Provide incident information to Illinois Gateway
	Kane County Sheriff	<ul style="list-style-type: none">• Receive emergency calls for incidents within the unincorporated portions of Kane County.• Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of Kane County.• Coordinate incident response with Kane County Division of Transportation• Provide incident information to Illinois Gateway• Provide incident information to traffic and public safety agencies.
	Kane County Highway Department	<ul style="list-style-type: none">• Perform incident detection and verification for arterial streets in the unincorporated portions of Kendall County.• Coordinate incident response for unincorporated portions of Kane County with the Kendall County Sheriff.• Operate DMS on Kendall County arterials to inform travelers of incidents• Provide incident information to Illinois Gateway

Transportation Service	Stakeholder	Roles/ Responsibilities
	Kendall County Sheriff	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the unincorporated portions of Kendall County. • Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of Kendall County. • Coordinate incident response with Kendall County Highway Department • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.
	Lake County Division of Transportation	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets in the unincorporated portions of Lake County. • Coordinate incident response for unincorporated portions of Lake County with the Lake County Sheriff. • Operate DMS on Lake County arterials to inform travelers of incidents • Provide incident information to Illinois Gateway
	Lake County Sheriff	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the unincorporated portions of Lake County. • Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of Lake County • Coordinate incident response with Lake County Division of Transportation. • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.
	McHenry County Highway	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets in the unincorporated portions of McHenry County. • Coordinate incident response for unincorporated portions of McHenry County with the McHenry County Sheriff. • Provide incident information to Illinois Gateway
	McHenry County Sheriff	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the unincorporated portions of McHenry County. • Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of McHenry County • Coordinate incident response with McHenry County Highway. • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.

Transportation Service	Stakeholder	Roles/ Responsibilities
	Municipalities	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets within municipalities in the region. • Dispatch Police, Fire, and EMS to incidents within the municipalities. • Coordinate incident response for incidents within the municipality. • Provide incident information to Illinois Gateway
	Will County Department of Highways	<ul style="list-style-type: none"> • Perform incident detection and verification for arterial streets in the unincorporated portions of Will County. • Coordinate incident response for unincorporated portions of Will County with the Will County Sheriff. • Operate DMS on Will County arterials to inform travelers of incidents • Provide incident information to Illinois Gateway
	Will County Sheriff	<ul style="list-style-type: none"> • Receive emergency calls for incidents within the unincorporated portions of Will County. • Dispatch Police, Fire, and EMS to incidents within the unincorporated portions of Will County • Coordinate incident response with Will County Department of Highway. • Provide incident information to Illinois Gateway • Provide incident information to traffic and public safety agencies.
Transit Management	CTA	<ul style="list-style-type: none"> • Provide bus and rapid transit rail service for City of Chicago and 38 suburbs covering a 220-square mile area of the region. • Provide transit rail service to Chicago airports. • Provide on-board functionality needed to implement bus signal priority at city, county or state controlled intersections.
	Pace	<ul style="list-style-type: none"> • Provides fixed route bus operations for suburb to suburb transit trips. • The system focuses most service in the portions of the suburban counties adjacent to Cook County, i.e., the east half of DuPage County, south edge of Lake County, and all of suburban Cook County. Four local route configurations provide community-level bus service in Waukegan, Elgin, Naperville/ Aurora, and Joliet. • Provide paratransit services to the entire six-county RTA region, excluding CTA's service area, through 60 local and multi-township dial-a-ride services and six regional mobility limited services. • Provide on-board functionality needed to implement bus signal priority at city, county or state controlled intersections.

Transportation Service	Stakeholder	Roles/ Responsibilities
	Metra	<ul style="list-style-type: none"> Provide commuter rail transit service on 12 separate lines which run north, west and south of Chicago's central business district.
	DuPage County Division of Human Services	<ul style="list-style-type: none"> Provide centralized paratransit dispatch for portions of DuPage County and neighboring municipalities.
Traveler Information	City of Chicago DOT	<ul style="list-style-type: none"> Provide traffic and maintenance information for City of Chicago streets to the public via website.
	IDOT ITS Program Office	<ul style="list-style-type: none"> Collect traffic and incident information from transportation agencies in the region Provide traveler interface to the Gateway Traveler Information System through the Gateway Website Provide road congestion and construction data
	IDOT Central Bureau of Operations	<ul style="list-style-type: none"> Provide road weather information to the public via telephone system and at rest stop computer terminals.
	IDOT Operations	<ul style="list-style-type: none"> Provide telephone information system for District 1 traveler information including travel times, road/lane closures, and construction information for expressways, toll roads, and major arterials. This includes current DOT INFO line and future regional 511 system.
	Regional Transportation Authority	<ul style="list-style-type: none"> Collect static and real time transit information from CTA, Metra, Pace and other regional transit systems (e.g. DuPage Paratransit). Provide static and real time transit information to travelers for CTA, Metra, Pace and regional transit system routes. Provide interactive transit route planning for travelers Provide real time transit information to travelers via Website, pager (or PDA), kiosk, or station signs.
	Private Information Service Providers	<ul style="list-style-type: none"> Provide value added regional traveler information including subscription services.
Emergency Management	City of Chicago Office of Emergency Management and Communications	<ul style="list-style-type: none"> Provide emergency call taking (9-1-1) for City of Chicago Dispatch City of Chicago police and fire Provide the ability to request city services or report non-emergency police incidents through 3-1-1 phone system. Provide Emergency Operations Center for City of Chicago, directing emergency operations during major emergencies and disasters.
	Cook County Sheriff	<ul style="list-style-type: none"> Dispatch Cook County Sheriff vehicles to respond to emergency requests in the unincorporated areas of Cook County. Provide emergency call taking for unincorporated areas of Cook County.

Transportation Service	Stakeholder	Roles/ Responsibilities
	DuPage County Sheriff	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for unincorporated portions of DuPage County • Provide county wide emergency call taking for cell phone calls. • Dispatch County Sheriff, fire and EMS for unincorporated regions of county.
	DuPage County Office of Emergency Management	<ul style="list-style-type: none"> • Develop county wide emergency preparedness plan • Provide Emergency Operations Center for DuPage County responsible for directing emergency operations during major emergencies and disasters.
	Illinois Emergency Management Agency	<ul style="list-style-type: none"> • Coordination of emergency response and recovery efforts at a statewide level.
	Illinois State Police District 15	<ul style="list-style-type: none"> • Dispatch of state police vehicles operating on the Tollways in the region.
	Illinois State Police Districts 2, 5, and Chicago	<ul style="list-style-type: none"> • Dispatch of state police vehicles operating on the state roads within the region.
	Kane County Office of Emergency Management	<ul style="list-style-type: none"> • Develop county wide emergency preparedness plan • Provide Emergency Operations Center for Kane County responsible for directing emergency operations during major emergencies and disasters.
	Kane County Sheriff	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for unincorporated portions of Kane County • Dispatch County Sheriff, fire and EMS for unincorporated regions of county.
	Kendall County Office of Emergency Management	<ul style="list-style-type: none"> • Develop county wide emergency preparedness plan • Provide Emergency Operations Center for Kendall County responsible for directing emergency operations during major emergencies and disasters.
	Kendall County Sheriff	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for unincorporated portions of Kendall County • Dispatch County Sheriff, fire and EMS for unincorporated regions of county.

Transportation Service	Stakeholder	Roles/ Responsibilities
	Lake County Sheriff	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for unincorporated portions of Lake County • Dispatch County Sheriff, fire and EMS for unincorporated regions of county. • Develop county wide emergency preparedness plan • Provide Emergency Operations Center for Lake County responsible for directing emergency operations during major emergencies and disasters.
	McHenry County Emergency Services and Disaster Agency	<ul style="list-style-type: none"> • Develop county wide emergency preparedness plan • Provide Emergency Operations Center for Lake County responsible for directing emergency operations during major emergencies and disasters.
	McHenry County Sheriff	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for unincorporated portions of McHenry County • Dispatch County Sheriff, fire and EMS for unincorporated regions of county.
	Municipalities	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for municipalities in the region. • Dispatch police, fire and EMS for municipalities in the region.
	Will County Emergency Management Agency	<ul style="list-style-type: none"> • Develop county wide emergency preparedness plan • Provide Emergency Operations Center for Will County responsible for directing emergency operations during major emergencies and disasters.
	Will County Sheriff	<ul style="list-style-type: none"> • Provide emergency call taking (9-1-1) for unincorporated portions of Will County • Dispatch County Sheriff, fire and EMS for unincorporated regions of county.
Maintenance and Construction Management	City of Chicago Department of Streets and Sanitation, Bureau of Electricity	<ul style="list-style-type: none"> • Maintains City of Chicago signalized intersection equipment. • Maintains City of Chicago street lights
	City of Chicago Department of Streets and Sanitation, Bureau of Traffic Services	<ul style="list-style-type: none"> • Provides towing of illegally parked vehicles from the streets of Chicago and coordinates the towing of abandoned vehicles. • Provides barricades and other traffic-control devices needed during emergency situations
	City of Chicago Department of Streets and Sanitation, Bureau of Street Operations	<ul style="list-style-type: none"> • Provides snow and ice control in the winter for city streets. • Performs street sweeping for city streets.

Transportation Service	Stakeholder	Roles/ Responsibilities
	City of Chicago Department of Transportation, Bureau of Streets	<ul style="list-style-type: none"> Provide asphalt and concrete maintenance for streets in the city, including pothole, curb and gutter maintenance.
	Cook County Highway Department	<ul style="list-style-type: none"> Provide maintenance of County roads including snow and ice control and pavement maintenance.
	Illinois Dept of Transportation District 1 Bureau of Construction	<ul style="list-style-type: none"> Provide management of IDOT construction projects in the region.
	Illinois Dept of Transportation District 1 Bureau of Maintenance	<ul style="list-style-type: none"> Provide maintenance of state highways in the region including snow and ice control and pavement maintenance.
	Illinois State Toll Highway Authority	<ul style="list-style-type: none"> Provides maintenance of tollways including snow and ice control and pavement maintenance.
	Kane County Division of Transportation, Maintenance Division	<ul style="list-style-type: none"> Provide maintenance of County roads including snow and ice control and pavement maintenance.
	Kane County Highway Department, Maintenance Division	<ul style="list-style-type: none"> Provide maintenance of County roads including snow and ice control and pavement maintenance.
	Lake County Division of Transportation	<ul style="list-style-type: none"> Provide management of road construction projects in Lake County Provide maintenance of County roads including snow and ice control and pavement maintenance.
	McHenry County Highway	<ul style="list-style-type: none"> Provide management of road construction projects in McHenry County Provide maintenance of County roads including snow and ice control and pavement maintenance.
	Municipalities	<ul style="list-style-type: none"> Provide maintenance of municipal roads including snow and ice control and pavement maintenance.
	Private Sector Maintenance Contractor	<ul style="list-style-type: none"> Provide maintenance of signals, DMS, HAR, lighting systems, and pumping stations. Contracted by municipalities and counties in the region.
	Will County Department of Highways	<ul style="list-style-type: none"> Provide management of road construction projects in Will County Provide maintenance of County roads including snow and ice control and pavement maintenance.
Archived Data Management	Academic/Research Organizations	<ul style="list-style-type: none"> Collect and archive data generated from ITS sources in the region and coordinate archived information with the GCM Data Archive and other regional archives for use in planning, evaluation, program assessment, and research applications.
	Illinois Dept of Transportation ITS Program Office	<ul style="list-style-type: none"> Collect and archive corridor wide data that the Gateway Central receives from the three state gateways.

Transportation Service	Stakeholder	Roles/ Responsibilities
	Chicago Metropolitan Agency for Planning	<ul style="list-style-type: none"> Collect and archive data from the Illinois Gateway.
Electronic Payment	Illinois State Toll Highway Authority	<ul style="list-style-type: none"> Operate Electronic Toll Collection system on Tollways.
	City of Chicago / SCC	<ul style="list-style-type: none"> Operate Electronic Toll Collection system on Skyway.
	Chicago Transit Authority	<ul style="list-style-type: none"> Operate an electronic fare payment system on bus and rail systems.
	Metra	<ul style="list-style-type: none"> Operate an electronic fare payment system on rail system.
	Pace	<ul style="list-style-type: none"> Operate an electronic fare payment system on bus system.
	Regional Transportation Authority	<ul style="list-style-type: none"> Sponsor development of regionally integrated electronic payment systems.

4. Inventory

Each stakeholder agency, company, or group owns, operates, maintains or plans ITS systems in the region. A regional ITS architecture inventory is a list of “elements” that represent all existing and planned ITS systems in a region as well as non-ITS systems that provide information to or get information from the ITS systems. The focus of the inventory is on those systems that support, or may support, interfaces that cross stakeholder boundaries (e.g., inter-agency interfaces, public/private interfaces).

The vast majority of the inventory represents ITS systems in Northeastern Illinois, but the inventory does contain a number of elements that represent systems in adjoining regions, or systems that exist at a statewide level. An example of an element in an adjoining region would be the Kenosha County Public Safety Dispatch, which represents the county public safety systems in Kenosha County Wisconsin that interface with peer public safety systems in the Northeastern Illinois region (e.g. Lake County Communications Center). An example of a statewide element is the Illinois State Operations Center, which is a State Emergency Operations Center in Springfield that interfaces to Emergency Operations Centers within the region. As part of the long-term maintenance of the Northeastern Illinois Regional ITS Architecture it will be necessary to coordinate the “inter-regional” interfaces with these elements that are outside the region.

Each element in the inventory is described by a name, the associated stakeholder, a description, general status (e.g. existing, planned, or potential), and the associated subsystems or terminators from the National ITS Architecture.

4.1. Systems by Stakeholder

Table 4 sorts the inventory by stakeholder so that each stakeholder can easily identify all the relevant elements that are defined in the architecture. For each element in the inventory the table provides an element description and an indication of whether the element exists or is planned.

The majority of elements in the inventory represent a specific existing or planned system. Some examples of specific systems are the IDOT District 1 ComCenter and the Chicago Transit Authority Control Center.

Some of the elements represent sets of devices, rather than a single specific system or device. An example of this type of element is the element “City of Chicago OEMC Field Equipment”. This element represents all of the traffic signals, traffic detectors, CCTV, Dynamic Message Signs (DMS) and Highway Advisory Radio (HAR) that are or will be operated by the City of Chicago OEMC. The element describes the type of devices, not the specific number of devices. For example, the element calls out DMS, but does say how many there are, or their precise location.

A third type of element in the inventory is a “generic” element that represents all of the systems of a certain type in the region. An example of this type of element is Municipal Public Safety Dispatch, which represents the many municipal public safety answering points (PSAPs) in the region. The description of this element lists many of the specific systems that were uncovered during technical meetings. These include:

- Ducomm (provides emergency dispatch services for 28 police and fire departments in DuPage County)
- SouthCom (provides 911 call taking and emergency dispatch services for Matteson, and Olympia Fields)
- Northwest Central Dispatch (NWCD serves as the Police dispatch agency for six communities in the NW suburbs of Chicago)
- EastCom (provides 911 call taking and emergency dispatch services for eastern Will County)
- Westcom
- Regional Emergency Dispatch Center (Fire dispatch for six communities in northwest Cook County)
- Quadcom (provides 911 call taking and emergency dispatch services for the villages of Carperntersville, East Dundee, West Dundee, and Sleepy Hollow)
- Elgin Dispatch (provides 911 call taking and emergency dispatch services for the City of Elgin)
- Tricom (provides 911 call taking and emergency dispatch services for Geneva, St. Charles, Batavia, and Elburn), and
- Aurora Dispatch (provides 911 call taking and emergency dispatch services for city of Aurora)

Another example of a generic element is the “Municipal TMCs”. This represents the higher functioning transportation management facilities run by municipalities. These include primarily traffic signal systems, but in some of the larger cities could include incident management functions. Some of the cities represented by this element are Naperville, Joliet, Schaumburg, Aurora and Elgin. Beyond these larger cities, the element can represent traffic signal systems operated by municipalities that are multi-jurisdictional, possibly performing signal coordination within subareas or corridors that may or may not be contiguous. In addition, this element includes traffic signal systems in Northwest Indiana. These generic elements have been created for two primary reasons. First, they represent elements with similar types of interfaces, so from a standardization standpoint, describing how one of the major elements in the region (e.g. the IDOT District 1 Com Center) interfaces with EastCom and NWCD would be the same. Second, describing many (there are over 100 PSAPs in the region) systems with a single element helps keep the architecture from growing too large.

Table 4: Inventory sorted by Stakeholder


Stakeholder	Element	Description	Status
Academic/Research Organizations	Academic/Research Organizations Data Warehouse	A data warehouse of traveler information data jointly developed by Argonne National Labs and University of Illinois at Chicago.	Planned
	University of Illinois ICT Data Archive	Traffic data archive housed at the University of Illinois at Urbana-Champaign's Illinois Center for Transportation.	Planned
AMTRAK	AMTRAK Rail	Local passenger train terminals that provide access to Amtrak service.	Planned
Area Media Outlets	Media	Television, radio, and print media that uses traffic information and images to present current transportation conditions to the public.	Existing
Arterial Performance Monitoring System Joint Venture Group	Arterial Performance Monitoring System	A joint venture by ISTHA, RTA, IDOT, City of Chicago OEMC TMA for collecting the travel condition data on the arterial road network	Planned
Chicago Bureau of Convention and Tourism	Chicago Bureau of Convention and Tourism Database	Database of planned events for Chicago and the Region.	Planned
Chicago Metropolitan Agency for Planning (CMAP)	CMAP Northeastern Illinois Regional Data Archive	Archive of traffic, transit, and traveler information collected by CATS/CMAP for use in transportation planning.	Planned
Chicago Park District	Chicago Park District Parking Management System	Parking Management System for City of Chicago Parks.	Planned
Chicago Port Authority	Port of Chicago	The Port of Chicago is a key terminus for ship, rail, and trucking in the region. It comprises facilities at Irquois Landing Lakefront Terminus and at Lake Calumet.	Existing
Chicago Transit Authority	Chicago Transit Authority BusInfo Signs	BusInfo signs at CTA bus stops. The signs are part of the regional RTA initiative for better traveler information. They are single or multiple carrier displays showing a countdown for the next vehicle of each route/direction serving that stop or station.	Planned
	Chicago Transit Authority Active Transit Station Signs	Active Transit Station Signs (ATSS) at CTA rail stations. The signs are part of the regional RTA initiative for better traveler information. They are single or multiple carrier displays showing a countdown for the next vehicle of each route/direction serving that stop or station.	Planned

Stakeholder	Element	Description	Status
	Chicago Transit Authority ATSS System	Center system that provides the next train information used to drive the CTA Active Transit Station Signs	Planned
	Chicago Transit Authority Bus Tracker Website	A pilot project for providing real-time location and arrival information for CTA buses. Presently deployed for the CTA Route 20 (Madison).	Existing
	Chicago Transit Authority Bus Vehicles	Bus Transit vehicles are used to provide transit services on area roadways. They are instrumented to gather and generate fare, passenger loading, location and schedule adherence information, as well as provide passenger information via visual and audio displays.	Existing
	Chicago Transit Authority BusInfo System	Bus Information system that provides bus arrival information for CTA buses to BusInfo signs.	Planned
	Chicago Transit Authority Control Center	The CTA Control Center controls the movement of buses and rapid transit trains and provides power control for rapid transit operations. Both the BusWatch system and Rail Service Management System are resident at the Control Center, as are their dispatchers. This includes CTA Hub that will feed the Illinois Transit Hub.	Existing
	Chicago Transit Authority Data Archive	This data archive will collect and archive data that it receives from CTA Control center	Existing
	Chicago Transit Authority Farecard Machines	This includes farecard machines for CTA Smartcards located at rapid transit stations, local merchants, and Union Station.	Existing
	Chicago Transit Authority Garages	Maintenance facilities for CTA transit vehicles	Existing
	Chicago Transit Authority Parking Management Guidance System	CTA Parking Management Guidance Systems are to be installed at selected rapid transit stops near major tollways, expressways, or strategic regional arterials. They will collect information on parking lot occupancy, and use it (along with transit and highway travel times) to populate DMS designed to give highway travelers the chance to divert to transit.	Planned
	Chicago Transit Authority Rail Signaling Equipment	CTA elevated train signal equipment	Existing

Stakeholder	Element	Description	Status
	Chicago Transit Authority Rapid Transit Station Turnstyles	Access and fare collection points for CTA Rapid Transit Vehicles	Existing
	Chicago Transit Authority Rapid Transit Vehicles	CTA operates these heavy rail rapid transit vehicles on dedicated subway, elevated and grade rights-of-way in the City of Chicago and in ring suburbs.	Existing
	Chicago Transit Authority Revenue Collection Center	This collects fare and payment collection status form CTA farecard vending equipment and CTA vehicles	Existing
	Chicago Transit Authority Security Equipment	Consists of cameras for surveillance of infrastructure	Existing
	Chicago Transit Authority Smartcard	Farecard for use on all CTA vehicles, some of which can used to connect to financial institutions (credit cards) and others are just fare cards.	Existing
City of Chicago	Mayors Office of Special Events	Web site with listing of events in Chicago.	Existing
City of Chicago / SCC	City of Chicago Skyway Field Equipment	Field equipment operating on the Skyway. Includes CCTV, detectors, and an RWIS.	Existing
	City of Chicago Skyway Operations	SCC toll bridge operation oversees the eight-mile long toll bridge connecting the Dan Ryan. The element manages traffic on the Skyway and does toll administration.	Existing
	City of Chicago Skyway Toll Plaza	Electronic toll plaza operations for the Chicago Skyway.	Existing
City of Chicago Department of Aviation	Chicago Airport Parking Systems	Parking Management Systems at OHare and Midway Airports.	Planned
	Chicago Airports	Represents airports in the region, including O'Hare, Midway, Meigs Field, Gary and the planned South Suburban Airports. This element represents the air transportation information that is available from the various airports.	Existing
	City of Chicago Department of Aviation Field Equipment	Security monitoring devices located along roadway infrastructure at Midway and O'Hare Airports.	Existing
	OHare Air Cargo Terminal	Air Cargo Terminal Operations at OHare Airport	Existing
	Satellite TMC Midway Airport	Midway Airport's landside transportation communications operation. This operation coordinates all aspects of land transportation around Midway airport.	Existing

Stakeholder	Element	Description	Status
	Satellite TMC OHare Airport	O'Hare Airport is developing a landside transportation communications operation. This operation will coordinate all aspects of land transportation around O'Hare airport.	Existing
City of Chicago Department of Streets and Sanitation (DSS)	City of Chicago DSS Bureau of Electricity Signal Maintenance	Department of Streets and Sanitation, Bureau of Electricity, signal maintenance dispatch. Includes maintenance of lighting systems.	Existing
	City of Chicago DSS Bureau of Street Operations Dispatch	Department of Streets and Sanitation, Bureau of Street Operations, dispatch for snowplows and garbage trucks	Existing
	City of Chicago DSS Traffic Services Dispatch	Department of Streets and Sanitation, Traffic Services, dispatch of city owned and private towing vehicles	Existing
	City of Chicago DSS Field Equipment	This element includes CCTV and RWIS stations (on 8 bridges).	Existing
	City of Chicago DSS Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment, towing (through the OEMC), and roadway and signal maintenance.	Existing
City of Chicago Department of Transportation	City of Chicago DOT Roadway Maintenance	Department of Transportation, Division of Engineering, roadway maintenance dispatch. Does roadway maintenance such as resurfacing and pot hole repair.	Existing
	City of Chicago DOT Transportation Website	Website with traffic and road maintenance information for the City of Chicago. Includes email subscription of information.	Existing
	City of Chicago DOT Traveler Information Kiosks	Traveler information kiosks displaying traffic and road maintenance information for the City of Chicago	Planned
	City of Chicago DOT Vehicles	Maintenance vehicles used to perform roadway maintenance, such as resurfacing and pot hole repair	Existing
City of Chicago OEMC and TMA	City of Chicago 311 Center	Call center for non emergency requests.	Existing
	City of Chicago 911 CAD	This is the 911 center for the City of Chicago. It provides emergency dispatch services for the police and fire department in the city of Chicago.	Existing
	City of Chicago Incident Center (CIC)	Co-located at the TMC, the CIC operates traffic signals and DMS, snow command, maintenance dispatching, roadway debris removal, maintenance of traffic device placement, and the street permit system	Existing
	City of Chicago Joint Operation Center (JOC)	Co-located at the TMC, the JOC acts as incident command for special events and emergency management.	Existing

Stakeholder	Element	Description	Status
	City of Chicago OEMC Field Equipment	Traffic signals, traffic detectors, CCTV, VMS (portable and permanent) and highway advisory radio (HAR)	Existing
	City of Chicago OEMC Security Monitoring Equipment	Virtual Shield equipment	Existing
	City of Chicago OEMC Unified Command Vehicles	A mobile base-of-operations for the City's Office of Emergency Management and Command (OEMC), if the OEMC headquarters is rendered inoperable	Existing
	City of Chicago OEMC Website	Website with traffic and emergency information for the City of Chicago.	Existing
	City of Chicago OEMC Maintenance Vehicles	Vehicles used to perform maintenance on OEMC field devices.	Existing
	City of Chicago Operations Center (OC)	Co-located at the TMC, the OC oversees emergency notification sirens, security monitoring, OVS, POD video, tow dispatch	Existing
	City of Chicago TMC	The TMC will be the focal point to collect, transfer, process and disseminate real-time travel data, including information on: road closures, construction activities, travel restrictions, accidents and incidents, and weather-related conditions. Other TMC functions may include: integration with road weather systems on city bridges, snow/ice removal management, special event traffic management, assistance during emergency evacuations, and supporting CVO initiatives. Includes Bureau of Electricity Signal Operations and BOE Radio Main. This element includes the current traffic signal control systems operated by the City of Chicago.	Existing
Cook County Highway Department	Cook County Highway Department Construction Bureau Operations	Operations and dispatch for Cook County construction vehicles and equipment.	Existing
	Cook County Highway Department Field Equipment	Traffic signals, traffic sensors, CCTV, and dynamic message signs owned and operated by Cook County Highway Department.	Existing
	Cook County Highway Department Maintenance Bureau Operations	Operations and dispatch of Cook County maintenance vehicles and equipment.	Existing
	Cook County TMC	Traffic Management Center for Cook County operated roadways.	Planned

Stakeholder	Element	Description	Status
Cook County Sheriff	Cook County Sheriff Communications Center	Dispatch of Cook County Sheriff Vehicles and Public Safety Answering Point (PSAP) for unincorporated portions of Cook County.	Existing
	Cook County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
Cook County Sheriff Emergency Management Agency	Cook County EOC	Cook County Emergency Operations Center	Existing
 County/Municipal Paratransit Services	Other Regional Paratransit Dispatch	Includes paratransit dispatch services for the county/municipal level	Planned
DuPage County Division of Transportation	DuPage County Field Equipment	Traffic signals, traffic sensors, environmental sensors, CCTV, and dynamic message signs owned and operated by DuPage County Division of Transportation. Currently the Division has video image detection and traffic signal preemption for emergency vehicles. The remainder of the types of elements in the description are planned for the future.	Existing
	DuPage County Maintenance Operations	Operations and dispatch of DuPage County maintenance vehicles and equipment.	Existing
	DuPage County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	DuPage County TMC	Traffic Management Center for DuPage County operated roadways.	Planned
DuPage County Office of Homeland Security and Emergency Management	DuPage County EOC	DuPage County Emergency Operations Center. This EOC is staffed 24/7. It has a larger role in the region than other county EOCs, acting as a regional EOC (actually for a larger 15 county area of the state). Also maintains countywide road closure information.	Existing
	DuPage County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency Management	Existing
DuPage County Sheriff	DuPage County Sheriff Communications Center	Public Safety Answering Points (PSAPs) operated by DuPage County. 911 call taking and Public Safety Dispatch for unincorporated areas of the county and cell phone calls throughout the county.	Existing

Stakeholder	Element	Description	Status
Grundy County Highway Department	Grundy County Field Equipment	Traffic signals (preemption/priority), traffic sensors, CCTV, and dynamic message signs owned and operated by Grundy County Highway.	Potential
	Grundy County Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment for Grundy County.	Existing
	Grundy County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	Grundy County TMC	Traffic Management Center for Grundy County operated roadways.	Potential
Grundy County Office of Emergency Management	Grundy County EOC	Emergency operations center for Grundy County.	Existing
	Grundy County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency management	Existing
Grundy County Sheriff	Grundy County 911 Center	Public Safety Answering Points (PSAPs) operated by Grundy County, as well as police, fire, and EMS dispatch.	Existing
	Grundy County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
Illinois Commerce Commission	Illinois EOSS/ CVISN Web Site	Electronic One Stop Shop (EOSS) System is under development in Illinois to provide the CVISN (Commercial Vehicle Information Systems and Networks) functionality within the state. Will provide a web site where carriers and their agents can apply for credentials, and where agencies can obtain carrier information.	Planned
	Illinois Single State Registration System	The Illinois Single State Registration System (SSRS) allows registration of commercial vehicles and provides a database of valid registrations within the state. The SSRS system allows carriers to obtain operating authority for any participating states in which they will be active with a single request to the motor carrier's base state. The system provides a common registration point and database for vehicles operating in 38 states.	Existing
Illinois County Emergency	Other County 911 Centers	Represents emergency call taking and public safety dispatch in Illinois counties adjacent to the region.	Existing

Stakeholder	Element	Description	Status
Services	Other County EOCs	Represents Emergency Operations Centers in Illinois Counties outside of the region.	Existing
	Other County PSAPs	Represents Public Safety Answering Points in Illinois Counties outside of the region.	Existing
Illinois Dept of Transportation Central Bureau of Bridges and Structures	IDOT Bureau of Bridges and Structures Field Equipment	Consists of CCTV for surveillance of critical bridge and other infrastructures	Existing
Illinois Dept of Transportation Central Bureau of Information Processing	IDOT Transportation Website	Website with traffic and road maintenance information for the IDOT roadway infrastructure. Includes email subscription of information. www.iltraffic.com	Existing
	Illinois 511 System	Telephone and Internet traveler information system for the Region.	Existing
	Illinois DOT Info	Existing phone system for providing traveler information.	Existing
	Illinois GIS Transportation Coalition	A GIS group focused on Transportation. The Illinois GIS Transportation Coalition will be a focal point for all GIS users as well as other GIS Data Providers. IDOT envisions the Illinois GIS Transportation Coalition as being a place to share information between all levels of government	Existing
Illinois Dept of Transportation Central Bureau of Operations	IDOT Central Bureau of Operations Field Equipment	Weather sensors and traffic count equipment owned and operated by IDOT Central Operations.	Existing
	IDOT Central Bureau of Operations Roadway and Weather Information System	Central Bureau of Operations system that drives Rest Area Kiosks	Existing
	IDOT CVO Permitting - Oversize/Overweight	The Oversize/Overweight (OSO) permitting system is used to provide permits electronically to carriers via the Electronic One-Stop Shop (EOSS) website within the state of Illinois. This information is provided to Illinois State Police as needed.	Existing
	IDOT Rest Area Kiosks	Kiosks owned and operated by IDOT residing in Rest Areas along interstate highways in Northeastern Illinois.	Planned
Illinois Dept of Transportation District 1 Bureau of Construction	IDOT District 1 Bureau of Construction	Operations and dispatch for IDOT construction vehicles and equipment.	Existing

Stakeholder	Element	Description	Status
Illinois Dept of Transportation District 1 Bureau of Electrical Operations	IDOT District 1 ComCenter	The Communications Center acts as the 24-hour incident management and operations center for IDOT District 1 and has control over the HAR system and the Kennedy Expressway reversible lane control (RevLac) system. During the TSC off hours, the ComCenter may operate the TSC's DMS. Provides info to Illinois Gateway.	Existing
	IDOT District 1 ComCenter Field Equipment	Refers to the RevLac system on the Kennedy Expressway, the expressway CCTV camera system, HAR, advance signing, ramp gates, and moveable bridge systems.	Existing
Illinois Dept of Transportation District 1 Bureau of Maintenance	IDOT District 1 Maintenance Management	Represents Duty Engineer and Operations Area Engineer.	Existing
	IDOT District 1 Maintenance Yards	This element represents the IDOT District 1 maintenance yards that provide materials storage and equipment repair.	Existing
	IDOT Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
Illinois Dept of Transportation District 1 Bureau of Traffic	IDOT District 1 Bureau of Traffic - Arterial Operations	IDOT District 1 Arterial Signal Systems. IDOT Traffic Signal Systems include over 250 coordinated signal systems, operating over 4000 intersections.	Existing
	IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Field equipment for IDOT District 1 Arterial Signal Systems. Includes traffic signals (including detection), EVP/priority, CCTV cameras, monitoring equipment and arterial DMS.	Existing
	IDOT District 1 Bureau of Traffic - Expressway Operations Unit	This unit handles approval of lane closures and distributes information regarding closures on the expressway system. Provides info to Illinois Gateway.	Existing
	IDOT District 1 Traffic Systems Center (TSC)	The TSC is responsible for managing congestion on IDOT's District 1 expressway system. The TSC is also responsible for distributing congestion information to the public and to independent service providers and to the Illinois Gateway. The TSC is also the host of the Illinois Gateway..	Existing
	IDOT District 1 Traffic Systems Center Field Equipment	Equipment includes vehicle detectors, ramp metering, CCTV and DMS. Also includes signals leading to ISTHA ramps. The TSC operates between 5 AM and 7 PM on weekdays. During off hours, some of the TSC operations are performed by the IDOT Comm Center.	Existing

Stakeholder	Element	Description	Status
	IDOT Emergency Traffic Patrol (ETP)	Emergency traffic patrol for interstates	Existing
	IDOT Emergency Traffic Patrol Vehicles	Emergency Traffic Patrol Vehicles that provide motorist assistance on the expressways.	Existing
	IDOT Metro Kiosks	Kiosks owned and operated by IDOT in Northeastern Illinois in areas other than Rest Areas along interstate highways.	Planned
Illinois Dept of Transportation District 1 Operations	IDOT Weigh Stations	IDOT fixed site weigh scales. Pre-Pass Systems being installed at most weigh stations.	Existing
Illinois Dept of Transportation Division of Traffic Safety	IDOT CVO Inspection Facility	CVO Inspection Facility located in the region	Existing
	Illinois Local Accident Reporting System	Represents the Illinois Local Accident Reporting System (LARS) that collects crash information from counties and municipalities in the state.	Planned
Illinois Dept of Transportation ITS Program Office	Gateway Central	Traveler information collection and distribution hub for the GCM corridor. It collects traveler and transportation related information (congestion, travel times, incidents, construction, maintenance, transit schedules, weather, etc.) from systems within the GCM Corridor area.	Existing
	Gateway Website	The Gateway Website receives travel and transportation related information from the Gateway Central and distributes the information to the traveling public via the Internet. The physical location of the servers is at the Traffic Systems Center (TSC) in Oak Park, IL.	Existing
	GCM Data Archive	The GCM Data Archive will collect and archive corridor-wide data that the Gateway Central receives from the three state gateways.	Potential
	IDOT Email Notification System (ENS)	Email notification system available at www.ILtrafficalert.com that provides traveler information on traveler selected routes for traveler selected times on 70+ expressway routes.	Planned
	Illinois Gateway	Traveler information collection and distribution hub for NE Illinois. It collects traveler and transportation related information (congestion, travel times, incidents, construction, maintenance, transit schedules, weather, etc.) from systems within NE Illinois.	Planned
Illinois Emergency Management Agency	Statewide Emergency Operations Center	Illinois Statewide Emergency Operations Center in Springfield, houses the State Incident Response Center (SIRC), the State Terrorism Intelligence Center (STIC), the Illinois Terrorism Task Force (ITTF), the Radiological Emergency Assessment	Existing

Stakeholder	Element	Description	Status
		Center (REAC), the state's 24-hour telecommunications center, and response personnel from the Illinois Emergency Management Agency (IEMA).	
Illinois Environmental Protection Agency	Illinois Environmental Protection Agency (EPA)	The Illinois Environmental Protection Agency monitors air quality through the Division of Air Pollution Control. The Agency monitors vehicle emissions through the Division of Vehicle Inspection and Maintenance.	Existing
Illinois Secretary of State	Dept of Driver Services	The Illinois Department of Driver Services (commonly known as the Department of Motor Vehicles) is a terminator in this architecture.	Existing
Illinois State Police	Illinois State Police Vehicles	Police Vehicles with mobile data terminals that can be used to access information from Dispatch as well as information from the Single State Registration System	Existing
Illinois State Police District 15	Illinois State Police District 15 Operations Desk	Operations and Dispatch for State Police District 15, which covers the Tollways.	Existing
Illinois State Police Districts 2, 5, and Chicago	CVO Crash Reporting (MCSAP)	Reporting of CVO related crashes through MCSAP (Motor Carrier Safety Assistance Program).	Existing
	CVO Inspection Reporting (ASPEN)	ASPEN is a laptop-based system that allows safety inspectors to enter Inspection Reports at the roadside and forwards them to CVIEW. It allows them to retrieve Inspection Reports, Carrier Profiles, and snapshots to help in selecting vehicles for inspection.	Existing
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Operations and dispatch for the State Police Districts covering the region. District 2 covers DuPage, Kane, Lake, and McHenry counties. District 5 covers Will County and Chicago District covers Cook County.	Existing
Illinois State Toll Highway Authority	*999 Cellular Express Line	A cellular emergency system provided by contract to ISTHA and IDOT which covers the City of Chicago and surrounding 8 counties.	Existing
	Highway Emergency Lane Patrol Vehicles	Highway Emergency Lane Patrol (HELP) Vehicles to provide service patrol on Thruways.	Existing
	ISTHA Computer Aided Dispatch Center	Dispatch of Highway Emergency Lane Patrol (HELP)	Existing

Stakeholder	Element	Description	Status
	ISTHA IPASS Business Center	Administrative center that manages I-Pass electronic toll system.	Existing
	ISTHA I-Pass Toll Plazas	Toll Plazas providing electronic Toll Collection using the I-Pass system.	Existing
	ISTHA Maintenance and Construction	Operations and dispatch of maintenance vehicles and equipment for the Tollway.	Existing
	ISTHA Maintenance Vehicle	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	ISTHA TIMS Kiosks	Kiosks owned and operated by ISTHA and located at Tollway rest stops.	Planned
	ISTHA TMC (TIMS)	Tollway Traffic Incident and Management System (TIMS) to provide control and monitoring of roadway devices such as dynamic message signs and CCTV. Reports travel times, incidents, and construction and maintenance information to the Illinois Gateway and to media.	Existing
	ISTHA TMC Field Equipment	Roadway devices such as traffic sensors, dynamic message signs and CCTV used to monitor the roadway for traffic flow and incidents and to provide information to Tollway drivers.	Existing
	ISTHA Weigh in Motion	ISTHA fixed site weigh scales.	Existing
Independent School Districts	Independent School District Dispatch	Represents the dispatch function of each of the many independent school districts within the region.	Planned
Indiana Dept of Transportation	Indiana DOT Arterial TMC	Traffic Management Center to monitor and control INDOT arterials in NW Indiana.	Planned
	Indiana Gateway	This represents the Gateway that collects traffic, transit, and traveler information from systems within Indiana and forwards this information to Gateway Central. Key information available to the Indiana Gateway is outputs from the Borman Traffic Management Center.	Existing


Stakeholder	Element	Description	Status
Indiana Dept of Transportation-Laporte District	Borman Traffic Management Center	The Borman TMC will collect and distribute detector data, construction, maintenance and special event information, VMS status and messages, and CCTV feeds. It will also provide control and monitoring messages to the Indiana Gateway.	Existing
Indiana Public Safety Agencies	Indiana County/ Municipal Public Safety Dispatch	Public Safety dispatch (including 911, police, fire, and EMS) for the counties and municipalities that border Illinois.	Existing
Indiana State Police	Indiana State Police Dispatch	Dispatch of Indiana State Police District 11 and 13.	Existing
Indiana Toll Road Concession Company (ITRCC)	Indiana Toll Road Operations Center	Center to operate and control detectors, dynamic message signs, CCTV on the Indiana Toll Road.	Existing
Intermodal Yard Operators	Intermodal Facilities	Intermodal facilities that provide transfer of freight between rail, river, and commercial vehicle.	Existing
Kane County Division of Transportation	Kane County Construction Operations	This element dispatches construction vehicles for work zone operations and provides workzone information to other elements. It also has DMS control, puts cameras on work sites.	
	Kane County Field Equipment	Traffic signals (preemption/priority), traffic sensors, CCTV, portable dynamic message signs speed monitoring trailers, environmental sensors, and automated anti icing system owned and operated by Kane County Transportation.	Existing
	Kane County Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment for Kane County.	Existing
	Kane County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	Kane County TMC	Traffic Management Center for Kane County operated roadways.	Planned
Kane County Office of Emergency Management	Kane County EOC	Emergency operations center for Kane County.	Existing
	Kane County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency management	Existing
Kane County Sheriff	Kane County 911 Center	Public Safety Answering Points (PSAPs) operated by Kane County, as well as police, fire, and EMS dispatch.	Existing

Stakeholder	Element	Description	Status
	Kane County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
Kenosha County Department of Public Works	Kenosha County Highway Maintenance	Dispatch of Kenosha County maintenance vehicles and equipment.	Existing
Kendall County Highway Department	Kendall County Field Equipment	Traffic signals (preemption/priority), traffic sensors, CCTV, and dynamic message signs owned and operated by Kendall County Highway.	Potential
	Kendall County Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment for Kendall County.	Existing
	Kendall County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	Kendall County TMC	Traffic Management Center for Kendall County operated roadways.	Potential
Kendall County Office of Emergency Management	Kenall County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency management	Existing
	Kendall County EOC	Emergency operations center for Kendall County.	Existing
Kendall County Sheriff	Kendall County 911 Center	Public Safety Answering Points (PSAPs) operated by Kendall County, as well as police, fire, and EMS dispatch.	Existing
	Kendall County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
Kenosha County Department of Public Works	Kenosha County Highway Maintenance Operations	Dispatch of Kenosha County maintenance vehicles and equipment.	Existing
	Kenosha County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
Kenosha County Public Safety Agencies	Kenosha County Public Safety Dispatch	Represents Public Safety functions (Sheriff, Fire, EMS, 911) at the county level in Kenosha County. Also represents the Kenosha County EOC.	Existing
Kenosha Transit	Kenosha Transit Dispatch	Kenosha Wisconsin transit dispatch	Existing

Stakeholder	Element	Description	Status
Lake County Division of Transportation	Lake County Field Equipment	Traffic signals, preemption/priority equipment, traffic sensors, CCTV, portable dynamic message signs (DMS), highway advisory radio (HAR), and environmental sensors owned and operated by Lake County Transportation.	Existing
	Lake County Highway Construction Operations	This element dispatches construction vehicles for work zone operations and provides workzone information to other elements. It also has DMS control, puts cameras on work sites.	Existing
	Lake County Highway Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment for Lake County. This element has general maintenance dispatch and sign shop dispatch. This element monitors 4 Road Weather Information System stations at the four corners of the county.	Existing
	Lake County PASSAGE TMC	Lake County PASSAGE Traffic Management Center (TMC) operates the County roadways.	Existing
	Lake County PASSAGE Website	Traveler information website administered by the Lake County PASSAGE Program. The website provides incident information and will provide live travel conditions in the future.	Existing
Lake County Emergency Management Agency	Lake County EOC	Lake County Emergency Operations Center	Existing
	Lake County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency management	Existing
Lake County Sheriff	Lake County Communications Center	Public Safety Answering Points (PSAPs) operated by Lake County	Existing
	Lake County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
McHenry County Division of Transportation	McHenry County Field Equipment	Traffic signals, preemption/priority equipment, traffic sensors, CCTV, and dynamic message signs owned and operated by McHenry County Highway.	Existing
	McHenry County Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment for McHenry County.	Existing
	McHenry County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	McHenry County TMC	Traffic Management Center for McHenry County operated roadways.	Potential

Stakeholder	Element	Description	Status
McHenry County Emergency Services and Disaster Agency	McHenry County EOC	Emergency Operations Center for McHenry County	Existing
	McHenry County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency management	Existing
McHenry County Sheriff	McHenry County Sheriff Dispatch	Public Safety Answering Points (PSAPs) operated by McHenry County	Existing
	McHenry County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
Metra	Metra Consolidated Control Facility	The Consolidated Control Facility, located in Chicago at 15th and Canal, is the focal point for management of Metra operated trains. It includes the computer aided dispatch system for train operations on the Metra system (including the Metra Contract Carrier Dispatch). The CTCO, which manages the private rail freight operations, is housed within this facility. The police dispatch and signal system control are other major functions of Control Facility.	Existing
	Metra GPS Center (TIMS)	The Metra GPS Center uses the Train Information Management System (TIMS) to collect location and schedule adherence information from trains, primarily for passenger information use. This includes the Metra Hub that feeds the Illinois Transit Hub. The GPS System also makes the public announcements.	Existing
	Metra Maintenance Yards	Facilities to service Metra trains. On-board data is collected using laptop computers.	Existing
	Metra Parking Management Guidance System	Parking Management Guidance System installations at Metra facilities will monitor parking lot occupancy and pass the information to roadside display signs as well as to the Illinois Transit Hub.	Existing
	Metra Passenger Information Display System	Metra Passenger Information Display System (PIDS) is part of the regional RTA initiative for better traveler information.	Planned
	Metra PMGS Signs	DMS signs to display information for the Metra Parking Management Guidance System.	Planned
	Metra Police	Law enforcement personnel operating on Metra trains and at Metra stations	Existing

Stakeholder	Element	Description	Status
	Metra Public Address System	The Metra Public Address System provides service advisories and other information at Metra stations. In the future, Wireless Voice of Metra (WVOM) would be used to display real time arrival and departure information.	Existing
	Metra Suburban Passenger Information Display Signs	Signs that provide real time rail arrival information. The signs are part of the regional RTA initiative for better traveler information. They are single or multiple carrier displays showing a countdown for the next vehicle of each route/direction serving that stop or station.	Existing
	Track and Signaling Equipment	Metra train signal equipment	Existing
	Metra Trains	Trains will include ITS devices that support the safe and efficient movement of passengers. These systems collect, manage, and disseminate transit-related information to the conductor and travelers.	Existing
	Metra Wayside Equipment	Track sensors and gate controls at highway rail intersections	Existing
	Metra Website	Static schedules, station and alert information.	Existing
Metro Pier and Exposition Authority (MPEA)	MPEA Parking Management	Parking Management System for McCormick Place and Navy Pier.	Planned
Municipalities	Municipal EMCs	Emergency Management Centers operated by municipalities in the region. Also includes EOCs operated by county/ municipal within Northwest Indiana.	Existing
	Municipal Parking Management Guidance System	Municipal Parking Management Guidance Systems are to be installed at selected transit stops near major tollways, expressways, or strategic regional arterials. They will collect information on parking lot occupancy, and use it (along with transit and highway travel times) to populate DMS designed to give highway travelers the chance to divert to transit.	Planned
	Municipal Public Safety Dispatch	Call taking and emergency services dispatch (police, fire, and EMS) operated by municipalities in the region. Include Fire Protection District dispatch. Also includes dispatch of county run police services for Forest Preserves. The following organizations are examples of these types of elements: DuComm (provides emergency dispatch services for 28 police and fire departments in DuPage County), SouthCom, Northwest	Existing

Stakeholder	Element	Description	Status
		Central Dispatch (NWCD serves as the Police dispatch agency for 6 communities in the NW suburbs of Chicago), EastCom (in Will County), Westcom, Regional Emergency Dispatch Center (Fire dispatch for 6 communities in northwest Cook county), QuadCom, Elgin Dispatch, Tricom, and Aurora Dispatch.	
	Municipal Public Safety Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
	Municipal TMCs	Higher functioning transportation management facilities run by municipalities. Represents a level of TMC below the County TMC. e.g. Naperville, Joliet, Schaumburg, Aurora and Elgin. Include traffic signal systems in NW Indiana. May include multi-jurisdictional signal coordination within subareas or corridors that may or may not be contiguous.	Existing
	Municipal Transit Operations	Transit operations run by municipalities in the region. Includes Hammond Transit operating in NW Indiana.	Existing
	Municipal/Township Field Equipment	Consist of Traffic signal systems, preemption/priority equipment, DMS and CCTV's on municipal roads. EVP are used by fire, EMS and Police vehicles	Existing
	Municipal/ Township Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment operated by municipalities/ townships within the region.	Existing
	Municipal/Townships Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
Northeastern Illinois Hospitals/Medical Centers	Regional Hospitals	EMS dispatch from hospitals and medical centers in the region.	Existing
 Northeastern Illinois Regional Data Archive and Management Group	Northeastern Illinois Regional Data Archive	Archive of traffic, transit, and traveler information collected by regional stakeholders for use in transportation planning.	Planned
Northwestern Indiana Commuter Transportation District	NICTD Dispatch	The Northern Indiana Commuter Transportation District's South Shore line operates trains from NW Indiana into Illinois.	Existing

Stakeholder	Element	Description	Status
Pace	Pace BusInfo Signs	BusInfo Signs at PACE transit stops. The signs are part of the regional RTA initiative for better traveler information. They are displays showing a countdown for the next vehicle of each route/direction serving that stop or station.	Planned
	Pace BusInfo System	Bus Information system that provides bus arrival information for Pace buses to BusInfo signs.	Planned
	Pace Control Center (IBS)	Pace Intelligent Bus System, a centralized dispatch computer system which supports physically distributed dispatchers. The IBS includes not only the dispatch system, but also AVL, on-board processors, audio and visual information display, passenger counting. Provides bus schedule adherence data for driving BusInfo Signs. This includes the Pace Hub that feeds the Illinois Transit Hub.	Existing
	Pace Data Archive	This data archive will collect and archive data that it receives from Pace Control center	Existing
	Pace Garages	Maintenance facilities for Pace transit vehicles	Existing
	Pace Paratransit Vehicles	These are the vans, buses and sedans used for Pace contractor-supplied paratransit services.	Existing
	Pace Security Equipment	These would include both on-board and at transit facilities security cameras. In future, these may be fed live to supervisor/police/emergency responder vehicles, shared with OEMC, control center.	Existing
	Pace Transit Bus Vehicles	Fixed route transit vehicles operated by Pace. Will contain automated vehicle location and passenger counting.	Existing
	Regional Paratransit Dispatch	Multiple county/subregional agencies have a number of public and private contractors who provide paratransit services.	Existing
	Regional Ridesharing and Vanpooling	Ridesharing/vanpooling system administered by Pace.	Existing
	WebWatch Internet Site	WebWatch is an Internet-based program that allows riders to access real-time bus schedule information.	Existing
Private Bus Agencies	Private Bus Dispatch	Private bus agencies operating in the region and in neighboring counties of Wisconsin and Indiana.	Existing
Private Hazmat Agencies	Hazmat Management and Cleanup	Private agencies that specialize in Hazmat cleanup.	Planned
Private ISPs	Private ISPs - Travel Information Services	Private companies that provide travel information such as predictive travel times and congestion along with real-time/ near-	Existing

Stakeholder	Element	Description	Status
		real time video images to the public.	
Private Parking Operators	Private Parking Lots	Parking operations for private parking lots within the region.	Planned
Private Sector Maintenance Contractor	Private Sector Maintenance Contractor	Operations and Dispatch for private companies with contracts to the county and municipal traffic agencies for maintenance	Existing
Private Taxi Companies	Private Taxi Dispatch	Operations and dispatch for private Taxi companies operating within the region.	Existing
Private Towing Companies	Private Tow and Recovery Operations	Dispatch for private tow and recovery companies.	Existing
Private Trucking Companies	Commercial Vehicles	The commercial vehicles operating in the region that are dispatched and routed by private trucking companies. These include the capability to be tracked by satellite or to pass location information to their dispatch center.	Planned
	Trucking Distribution Centers	Includes private commercial fleet management operations in the region.	Existing
Private Weather Information Providers	Weather Services	Private Companies who provide customized transportation weather information.	Existing
Public and Non-Profit Paratransit Agencies	Public/Non-Profit Paratransit Services	Dispatch for paratransit operations run by public or non-profit agencies.	Existing
Rail Freight Operators	Rail Freight Operations	Rail operations centers for private rail firms operating in the region.	Existing
Regional Airport Authority	Neighboring Airports	This element represents the air transportation information that is available from airports outside the region, but which may be of interest to the region. For example, from Mitchell Field in Milwaukee.	Existing
	South Suburban Airport TMC	Traffic Management of surface transportation surrounding the proposed South Suburban Airport	Planned
Regional Event Organizations	Regional Event Facilities	Represents the various event facilities in the region that are generators of planned events with significant traffic or transit impact. Examples are Universities and Colleges. etc.	Planned
Regional Transportation Authority	Illinois Transit Hub	The Illinois Transit Hub will be the Transit Information Service Provider for the RTA region. This includes a messaging subsystem that can provide multimodal information to BusInfo, ATSS, and InfoTrans signs. Serves as information exchange conduit with Illinois Gateway	Planned

Stakeholder	Element	Description	Status
	Illinois Transit Hub Website	Web interface for accessing transit related data collected by the Illinois Transit Hub	Planned
	InfoTrans Signs	Electronic traveler information signs at O'Hare and Midway in the baggage claim and on the concourses.	Planned
	Regional Transit Asset Management System (RTAMS)	Regional Transportation Asset Management System (RTAMS) provides planning and financial information on the transportation system in the northeastern Illinois areas surrounding Chicago. RTAMS allows users to access transit and tollway data through an interactive map.	Existing
	Regional Transportation Authority Travel Information Center (TIC)	The RTA Travel Information Center (TIC) currently collects static route, schedule and fare information from the three RTA Service Boards, and uses it to provide information over the phone to travelers in the RTA region. The TIC uses its Itinerary Planning System (IPS) to provide information to callers in the form of specific origin to destination trip plans. In the future, this may be enhanced by real time data.	Existing
	RTA Multimodal Information Kiosks	The RTA Multimodal Information Kiosks (MMIK) are public informational displays supporting various levels of interaction and information access and systems which provide security in public areas.	Planned
	RTA Multimodal Trip Planner	Itinerary Planning System is the web based interface of the TIC, providing an interface to users and the RTA Kiosk.	Existing
	RTA Passenger Certification Database	Database to determine ridership eligibility for paratransit	Planned
Travelers	Universal Fare Card	Payment instrument for use in multimodal transportation throughout the region	Planned
	User Personal Computing Devices	User Personal Computing Devices refers to equipment an individual owns and can personalize with their choices for information about transportation networks. An Internet-connected PC is an example.	Existing

Stakeholder	Element	Description	Status
	Vehicles	A general element that represents personal automobiles and fleet vehicles that include ITS safety, navigation and traveler information, and electronic tolling (IPASS) systems that may be applicable to any highway vehicle.	Existing
US Coast Guard	Coast Guard Dispatch	Operations and Dispatch of Coast Guard assets in the region.	Existing
US Navy	Great Lakes Training Center	This major Navy training facility has a police department, and generates a lot of traffic when they have events. They also need to be coordinated with during any evacuation.	Existing
Utility Companies	Utility Company Operations	Dispatch function of utility companies in the region. Includes telephone, gas, cable, pipeline.	Planned
Violation Enforcement Processing Service	Red Light Running Cameras	Cameras used for red-light running enforcement program	Existing
	Violation Enforcement Processing Center	Contracted service that operates the field equipment and notifies the violation to the respective authorities	Existing
Water Taxi Operators	Water Taxi Service	Dispatch for Water Taxi Services operating in the Region.	Existing
Will County Department of Highways	Will County Field Equipment	Traffic signals, preemption/priority equipment, traffic sensors, CCTV, and dynamic message signs (contractor supplied)	Existing
	Will County Maintenance Operations	Operations and dispatch of maintenance vehicles and equipment for Will County.	Existing
	Will County Maintenance Vehicles	Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.	Existing
	Will County TMC	Traffic Management Center for Will County operated roadways.	Potential
Will County Emergency Management Agency	Will County EOC	Emergency Operations Center for Will County	Existing
	Will County EOC Field Equipment	Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency	Existing
Will County Sheriff	Will County Sheriff Communications Center	Public Safety Answering Points (PSAPs) for Will County. 911 call taking and Public Safety Dispatch for unincorporated areas and mobile calls.	Existing
	Will County Sheriff Vehicles	Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch	Existing
	Will County Weigh in Motion	Includes fixed site weigh scales.	Existing

Stakeholder	Element	Description	Status
Wisconsin Dept of Transportation	Wisconsin Gateway (MONITOR)	This represents the Gateway that collects traffic, transit, and traveler information from systems within Wisconsin and forwards this information to Gateway Central. Key information available to the Wisconsin Gateway is outputs from the MONITOR system.	Existing
	Wisconsin State Patrol District 2 Dispatch	Operations and dispatch for Wisconsin State Patrol district that border the region.	Existing
	WsDOT Statewide Traffic Operations Center	Includes the MONITOR System.	Existing
Wisconsin Public Safety Agencies	Wisconsin Municipal Public Safety	Police, Fire, EMS, and 911 call taking for municipalities in southeastern Wisconsin.	Existing

4.2. Systems by Architecture Entity

Each element in the regional architecture inventory is mapped to one or more entities from the National ITS Architecture. In the current version of the National ITS Architecture (version 6.0) there are 98 entities defined. These 22 subsystems and 76 terminators describe a wide array of systems that provide ITS services, or interface with systems that provide ITS services. The mapping of regional architecture elements to National ITS Architecture entities has two primary benefits. First it allows the full set of information flows contained in the National ITS Architecture to be used in the description of regional ITS architecture interfaces, and second, it allows the elements of the regional architecture to be grouped by like entity. Table 5 provided just such a sorting of inventory elements by entity. This table allows the users of the architecture to immediately identify all the elements that have functions relating to transit management, or traffic management.

The Northeastern Illinois Regional ITS Architecture inventory contains the following number of elements mapped to different types of entities:

Archived Data Management: 15
 Commercial Vehicle Administration: 3
 Emergency Management: 41
 Information Service Providers: 28
 Maintenance and Construction Management: 25
 Parking Management: 8
 Roadway: 30
 Traffic Management: 29
 Transit Management: 23

Table 5: Inventory Sorted by Entity

Entity	Element	Stakeholder	Status
Archived Data Management Subsystem	Academic/Research Organizations Data Warehouse	Academic/Research Organizations	Planned
	Arterial Performance Monitoring System	Arterial Performance Monitoring System Joint Venture Group	Planned
	Chicago Transit Authority Data Archive	Chicago Transit Authority	Existing
	City of Chicago TMC	City of Chicago OEMC and TMA	Existing
	CMAP Northeastern Illinois Regional Data Archive	Chicago Metropolitan Agency for Planning (CMAP)	Planned
	GCM Data Archive	Illinois Dept of Transportation ITS Program Office	Planned
	IDOT District 1 ComCenter	Illinois Dept of Transportation District 1 Bureau of Electrical Operations	Existing

Entity	Element	Stakeholder	Status
	Illinois GIS Transportation Coalition	Illinois Dept of Transportation Central Bureau of Information Processing	Existing
	Illinois Local Accident Reporting System	Illinois Dept of Transportation Division of Traffic Safety	Planned
	Illinois Transit Hub	Regional Transportation Authority	Existing
	ISTHA TMC (TIMS)	Illinois State Toll Highway Authority	Existing
	Northeastern Illinois Regional Data Archive	Chicago Area Transportation Study (CATS)	Potential
	Pace Data Archive		Existing
	Regional Transit Asset Management System (RTAMS)		Existing
	University of Illinois ICT Data Archive		Planned
Archived Data User Systems	Academic/Research Organizations Data Warehouse	Academic/Research Organizations	Planned
Asset Management	Regional Transit Asset Management System (RTAMS)	Regional Transportation Authority	Existing
Basic Commercial Vehicle	Commercial Vehicles	Private Trucking Companies	Planned
Basic Vehicle	Vehicles	Travelers	Existing
Care Facility	Regional Hospitals	Northeastern Illinois Hospitals/Medical Centers	Existing
Commercial Vehicle Administration	IDOT CVO Permitting - Oversize/Overweight	Illinois Dept of Transportation Central Bureau of Operations	Existing
	Illinois EOSS/ CVISN Web Site	Illinois Commerce Commission	Planned
	Illinois Single State Registration System	Illinois Commerce Commission	Existing
Commercial Vehicle Check	CVO Crash Reporting (MCSAP)	Illinois State Police Districts 2, 5, and Chicago	Existing
	CVO Inspection Reporting (ASPEN)	Illinois State Police Districts 2, 5, and Chicago	Existing
	IDOT CVO Inspection Facility	Illinois Dept of Transportation Division of Traffic Safety	Existing
	IDOT Weigh Scales	Illinois Dept of Transportation Operations	Existing
	ISTHA Weigh in Motion	Illinois State Toll Highway Authority	Existing
	Will County Weigh in Motion	Will County Sheriff	Existing
Commercial Vehicle Subsystem	Commercial Vehicles	Private Trucking Companies	Planned

Entity	Element	Stakeholder	Status
DMV	Dept of Driver Services	Illinois Secretary of State	Existing
Emergency Management	*999 Cellular Express Line	Illinois State Toll Highway Authority	Existing
	Chicago Transit Authority Control Center	Chicago Transit Authority	Existing
	City of Chicago 311 Center	City of Chicago OEMC and TMA	Existing
	City of Chicago 911 CAD	City of Chicago OEMC and TMA	Existing
	City of Chicago Incident Center (CIC)	City of Chicago OEMC and TMA	Existing
	City of Chicago Joint Operation Center (JOC)	City of Chicago OEMC and TMA	Existing
	City of Chicago OEMC Unified Command Vehicles	City of Chicago OEMC and TMA	Existing
	City of Chicago Operations Center (OC)	City of Chicago OEMC and TMA	Existing
	Coast Guard Dispatch	US Coast Guard	Existing
	Cook County EOC	Cook County Sheriff Emergency Management Agency	Existing
	Cook County Sheriff Communications Center	Cook County Sheriff	Existing
	DuPage County EOC	DuPage County Office of Homeland Security and Emergency Management	Existing
	DuPage County Sheriff Communications Center	DuPage County Sheriff	Existing
	Great Lakes Training Center	US Navy	Existing
	Grundy County 911 Center	Grundy County Sheriff	Existing
	Grundy County EOC	Grundy County Office Emergency Management	Existing
	IDOT District 1 ComCenter	Illinois Dept of Transportation District 1 Bureau of Electrical Operations	Existing
	IDOT Emergency Traffic Patrol (ETP)	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Illinois State Police Districts 2, 5, and Chicago	Existing
	Illinois State Police District 15 Operations Desk	Illinois State Police District 15	Existing
Indiana County/ Municipal Public Safety Dispatch	Indiana Public Safety Agencies	Existing	
Indiana State Police Dispatch	Indiana State Police	Existing	
ISTHA Computer Aided Dispatch Center	Illinois State Toll Highway Authority	Existing	

Entity	Element	Stakeholder	Status
	Kane County 911 Center	Kane County Sheriff	Existing
	Kane County EOC	Kane County Office of Emergency Management	Existing
	Kendall County 911 Center	Kendall County Sheriff	Existing
	Kendall County EOC	Kendall County Office of Emergency Management	Existing
	Kenosha County Public Safety Dispatch	Kenosha County Public Safety Agencies	Existing
	Lake County Communications Center	Lake County Sheriff	Existing
	Lake County EOC	Lake County Sheriff	Existing
	McHenry County EOC	McHenry County Emergency Services and Disaster Agency	Existing
	McHenry County Sheriff Dispatch	McHenry County Sheriff	Existing
	Metra Police	Metra	Existing
	Municipal EMCs	Municipalities/Townships	Existing
	Municipal Public Safety Dispatch	Municipalities/Townships	Existing
	Private Tow and Recovery Operations	Private Towing Companies	Existing
	Statewide Emergency Operations Center	Illinois Emergency Management Agency	Existing
	Will County EOC	Will County Emergency Management Agency	Existing
	Will County Sheriff Communications Center	Will County Sheriff	Existing
	Wisconsin Municipal Public Safety	Wisconsin Public Safety Agencies	Existing
	Wisconsin State Patrol District 2 Dispatch	Wisconsin Dept of Transportation	Existing
Emergency Vehicle Subsystem	City of Chicago DSS Vehicles	City of Chicago Department of Streets and Sanitation (DSS)	Existing
	City of Chicago OEMC Unified Command Vehicles	City of Chicago OEMC and TMA	Existing
	Cook County Sheriff Vehicles	Cook County Sheriff	Existing
	DuPage County Sheriff Vehicles	DuPage County Sheriff	Existing
	Grundy County Sheriff Vehicles	Grundy County Sheriff	Existing
	Highway Emergency Lane Patrol Vehicles	Illinois State Toll Highway Authority	Existing
	IDOT Emergency Traffic Patrol Vehicles	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing

Entity	Element	Stakeholder	Status
	Illinois State Police Vehicles	Illinois State Police	Existing
	Kane County Sheriff Vehicles	Kane County Sheriff	Existing
	Kendall County Sheriff Vehicles	Kendall County Sheriff	Existing
	Lake County Sheriff Vehicles	Lake County Sheriff	Existing
	McHenry County Sheriff Vehicles	McHenry County Sheriff	Existing
	Municipal Public Safety Vehicles	Municipalities/Townships	Existing
	Will County Sheriff Vehicles	Will County Sheriff	Existing
Emissions Management	Illinois Environmental Protection Agency (EPA)	Illinois Environmental Protection Agency	Existing
Enforcement Agency	Violation Enforcement Processing Center	Violation Enforcement Processing Service	Existing
Equipment Repair Facility	IDOT District 1 Maintenance Yards	Illinois Dept of Transportation District 1 Bureau of Maintenance	Existing
Event Promoters	Chicago Bureau of Convention and Tourism Database	Chicago Bureau of Convention and Tourism	Planned
	Great Lakes Training Center	US Navy	Existing
	Mayors Office of Special Events	City of Chicago	Existing
	Regional Event Facilities	Regional Event Organizations	Planned
Fleet and Freight Management	Hazmat Management and Cleanup	Private Hazmat Agencies	Planned
	Trucking Organizations	Private Trucking Companies	Existing
Information Service Provider	Arterial Performance Monitoring System	Arterial Performance Monitoring System Joint Venture Group	Planned
	Chicago Transit Authority Bus Tracker Website	Chicago Transit Authority	Existing
	City of Chicago DOT Transportation Website	City of Chicago Department of Transportation	Existing
	City of Chicago Joint Operation Center (JOC)	City of Chicago OEMC and TMA	Existing
	City of Chicago OEMC Website	City of Chicago OEMC and TMA	Existing
	City of Chicago TMC	City of Chicago OEMC and TMA	Existing
	Gateway Central	Illinois Dept of Transportation ITS Program Office	Existing
	Gateway Website	Illinois Dept of Transportation ITS Program Office	Existing

Entity	Element	Stakeholder	Status
	IDOT Central Bureau of Operations Roadway and Weather Information System	Illinois Dept of Transportation Central Bureau of Operations	Existing
	IDOT District 1 ComCenter	Illinois Dept of Transportation District 1 Bureau of Electrical Operations	Existing
	IDOT District 1 Traffic Systems Center (TSC)	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing
	IDOT Email Notification System (ENS)	Illinois Dept of Transportation ITS Program Office	Existing
	IDOT Transportation Website	Illinois Dept of Transportation Central Bureau of Information Processing	Existing
	Illinois 511 System	Illinois Dept of Transportation Central Bureau of Information Processing	Planned
	Illinois DOT Info	Illinois Dept of Transportation Central Bureau of Information Processing	Existing
	Illinois Gateway	Illinois Dept of Transportation ITS Program Office	Existing
	Illinois Transit Hub	Regional Transportation Authority	Existing
	Illinois Transit Hub Website	Regional Transportation Authority	Planned
	Indiana Gateway	Indiana Dept of Transportation	Existing
	ISTHA TMC (TIMS)	Illinois State Toll Highway Authority	Planned
	Lake County PASSAGE Website	Lake County Division of Transportation	Existing
	Metra Website	Metra	Existing
	Private ISPs - Travel Information Services	Private ISPs	Existing
	Regional Ridesharing and Vanpooling	Pace	Existing
	Regional Transportation Authority Travel Information Center (TIC)	Regional Transportation Authority	Existing
	Satellite TMC OHare Airport	City of Chicago Department of Aviation	Existing
	Satellite TMC OHare Airport	City of Chicago Department of Aviation	Existing
	WebWatch Internet Site	Pace	Existing
	Wisconsin Gateway (MONITOR)	Wisconsin Dept of Transportation	Existing

Entity	Element	Stakeholder	Status
Intermodal Freight Depot	Intermodal Facilities	Intermodal Yard Operators	Existing
	OHare Air Cargo Terminal	City of Chicago Department of Aviation	Existing
	Port of Chicago Intermodal Facilities	Chicago Port Authority	Existing
Maintenance and Construction Management	City of Chicago DOT Roadway Maintenance	City of Chicago Department of Transportation	Existing
	City of Chicago DSS Bureau of Electricity Signal Maintenance	City of Chicago Department of Streets and Sanitation (DSS)	Existing
	City of Chicago DSS Bureau of Street Operations Dispatch	City of Chicago Department of Streets and Sanitation (DSS)	Existing
	City of Chicago DSS Bureau of Traffic Services Dispatch	City of Chicago Department of Streets and Sanitation (DSS)	Existing
	City of Chicago Incident Center (CIC)	City of Chicago OEMC and TMA	Existing
	Cook County Highway Department Construction Bureau	Cook County Highway Department	Existing
	Cook County Highway Department Maintenance Bureau	Cook County Highway Department	Existing
	DuPage County Maintenance Operations	DuPage County Division of Transportation	Existing
	Grundy County Maintenance Operations	Grundy County Highway Department	Existing
	IDOT District 1 Bureau of Construction	Illinois Dept of Transportation District 1 Bureau of Construction	Existing
	IDOT District 1 Bureau of Traffic- Expressway Operations Unit	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing
	IDOT District 1 ComCenter	Illinois Dept of Transportation District 1 Bureau of Electrical Operations	Existing
	IDOT District 1 Maintenance Management	Illinois Dept of Transportation District 1 Bureau of Maintenance	Existing
	ISTHA Maintenance and Construction	Illinois State Toll Highway Authority	Existing
	Kane County Construction Operations	Kane County Division of Transportation	Existing
Kane County Maintenance	Kane County Division of Transportation	Existing	
Kendall County Maintenance Operations	Kendall County Highway Department	Existing	

Entity	Element	Stakeholder	Status
	Kenosha County Highway Maintenance	Kenosha County Department of Public Works	Existing
	Lake County Highway Construction Operations	Lake County Division of Transportation	Planned
	Lake County Highway Maintenance Operations	Lake County Division of Transportation	Existing
	McHenry County Maintenance Operations	McHenry County Highway	Existing
	Municipal/ Township Maintenance Operations	Municipalities/Townships	Existing
	Private Sector Maintenance Contractor Operations	Private Sector Maintenance Contractor	Existing
	Utility Company Operations	Utility Companies	Planned
	Will County Maintenance Operations	Will County Department of Highways	Existing
Maintenance and Construction Vehicle	City of Chicago DOT Vehicles	City of Chicago Department of Transportation	Existing
	City of Chicago DSS Vehicles	City of Chicago Department of Streets and Sanitation (DSS)	Existing
	City of Chicago OMEC Maintenance Vehicles	City of Chicago OEMC and TMA	Existing
	Cook County Maintenance Vehicles	Cook County Highway Department	Existing
	DuPage County Maintenance Vehicles	DuPage County Division of Transportation	Existing
	Grundy County Maintenance Vehicles	Grundy County Highway Department	Existing
	IDOT Maintenance Vehicles	Illinois Dept of Transportation District 1 Bureau of Maintenance	Existing
	ISTHA Maintenance Vehicle	Illinois State Toll Highway Authority	Existing
	Kane County Maintenance Vehicles	Kane County Division of Transportation	Existing
	Kendall County Maintenance Vehicles	Kendall County Highway Department	Existing
	Kenosha County Maintenance Vehicles	Kenosha County Department of Public Works	Existing
	Lake County Maintenance Vehicles	Lake County Division of Transportation	Existing
	McHenry County Maintenance Vehicles	McHenry County Division of Transportation	Existing
	Municipal/Townships Maintenance Vehicles	Municipalities/Townships	Existing
	Will County Maintenance Vehicles	Will County Department of Highways	Existing

Entity	Element	Stakeholder	Status
Media	Media	Area Media Outlets	Existing
Multimodal Transportation Service Provider	AMTRAK Rail	AMTRAK	Planned
	Chicago Airports	City of Chicago Department of Aviation	Existing
	Neighboring Airports	Regional Airport Authority	Existing
	Water Taxi Service	Water Taxi Operators	Existing
Non-Emergency Call Taking	City of Chicago 311 Center	City of Chicago OEMC and TMA	Existing
Other Emergency Management	Other County 911 Centers	Illinois County Emergency Services	Existing
	Other County EOCs	Illinois County Emergency Services	Existing
	Other County PSAPs	Illinois County Emergency Services	Existing
Other Transit Management	Kenosha Transit Dispatch	Kenosha Transit	Existing
	Other Regional Paratransit Dispatch	County/Municipal Paratransit Services	Planned
Parking Management	Chicago Airport Parking Systems	City of Chicago Department of Aviation	Planned
	Chicago Park District Parking Management System	Chicago Park District	Planned
	Chicago Transit Authority Parking Management Guidance System	Chicago Transit Authority	Planned
	Metra Parking Management Guidance System	Metra	Existing
	MPEA Parking Management	Metro Pier and Exposition Authority (MPEA)	Planned
	Municipal Parking Management Guidance System	Municipalities/Townships	Planned
	Private Parking Lots	Private Parking Operators	Planned
	Satellite TMC OHare Airport	City of Chicago Department of Aviation	Existing
Personal Information Access	User Personal Computing Devices	Travelers	Existing
Rail Operations	AMTRAK Rail	AMTRAK	Planned
	Metra Consolidated Control Facility	Metra	Existing
	Rail Freight Operations	Rail Freight Operators	Existing
Remote Traveler Support	Chicago Transit Authority BusInfo Signs	Chicago Transit Authority	Planned
	Chicago Transit Authority Active Transit Station Signs	Chicago Transit Authority	Planned

Entity	Element	Stakeholder	Status
	Chicago Transit Authority Farecard Machines	Chicago Transit Authority	Existing
	Chicago Transit Authority Rapid Transit Station Turnstyles	Chicago Transit Authority	Existing
	City of Chicago DOT Traveler Information Kiosks	City of Chicago Department of Transportation	Planned
	IDOT Metro Kiosks	Illinois Dept of Transportation District 1 Bureau of Traffic	Planned
	IDOT Rest Area Kiosks	Illinois Dept of Transportation Central Bureau of Operations	Planned
	InfoTrans Signs	Regional Transportation Authority	Planned
	ISTHA TIMS Kiosks	Illinois State Toll Highway Authority	Planned
	Metra Public Address System	Metra	Existing
	Metra Suburban Passenger Information Display Signs	Metra	Planned
	Pace BusInfo Signs	Pace	Planned
	RTA Multimodal Information Kiosks	Regional Transportation Authority	Planned
Roadway Subsystem	Chicago Transit Authority Rail Signaling Equipment	Chicago Transit Authority	Existing
	City of Chicago Department of Aviation Field Equipment	City of Chicago Department of Aviation	Existing
	City of Chicago DSS Field Equipment	City of Chicago Department of Streets and Sanitation (DSS)	Existing
	City of Chicago OEMC Field Equipment	City of Chicago OEMC and TMA	Existing
	City of Chicago Skyway Field Equipment	City of Chicago / SCC	Existing
	Cook County Highway Department Roadside Equipment	Cook County Highway Department	Existing
	DuPage County EOC Field Equipment	DuPage County Office of Homeland Security and Emergency Management	Existing
	DuPage County Field Equipment	DuPage County Division of Transportation	Existing
	Grundy County EOC Field Equipment	Grundy County Office Emergency Management	Existing
	Grundy County Field Equipment	Grundy County Highway Department	Existing
	IDOT Central Bureau of Operations Field Equipment	Illinois Dept of Transportation Central Bureau of Operations	Existing
IDOT District 1 Bureau of Traffic Arterial Operations Field Equipment	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing	

Entity	Element	Stakeholder	Status
	IDOT District 1 ComCenter Field Equipment	Illinois Dept of Transportation District 1 Bureau of Electrical Operations	Existing
	IDOT District 1 Traffic Systems Center Field Equipment	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing
	ISTHA I-Pass Toll Plazas	Illinois State Toll Highway Authority	Existing
	ISTHA TMC Field Equipment	Illinois State Toll Highway Authority	Existing
	Kane County EOC Field Equipment	Kane County Office of Emergency Management	Existing
	Kane County Field Equipment	Kane County Division of Transportation	Existing
	Kendall County EOC Field Equipment	Kendall County Office of Emergency Management	Existing
	Kendall County Field Equipment	Kendall County Highway Department	Existing
	Lake County EOC Field Equipment	Lake County Emergency Management Agency	Existing
	Lake County Field Equipment	Lake County Division of Transportation	Existing
	McHenry County EOC Field Equipment	McHenry County Emergency Services and Disaster Agency	Existing
	McHenry County Field Equipment	McHenry County Highway	Existing
	Metra PMGS Signs	Metra	Existing
	Metra Track and Signaling Equipment	Metra	Existing
	Municipal/Township Field Equipment	Municipalities/Townships	Existing
	Red Light Running Cameras	Violation Enforcement Processing Service	Existing
	Will County EOC Field Equipment	Will County Emergency Management Agency	Existing
	Will County Field Equipment	Will County Department of Highways	Existing
Security Monitoring Subsystem	Chicago Transit Authority Security Equipment	Chicago Transit Authority	Existing
	City of Chicago OEMC Security Monitoring Equipment	City of Chicago OEMC and TMA	Existing
	DuPage County EOC Field Equipment	DuPage County Office of Homeland Security and Emergency Management	Existing
	IDOT Bureau of Bridges and Structures Field Equipment	Illinois Dept of Transportation Central Bureau of Bridges and Structures	Planned

Entity	Element	Stakeholder	Status
	Metra Security Equipment	Metra	Existing
	Pace Security Equipment	Pace	Existing
Storage Facility	IDOT District 1 Maintenance Yards	Illinois Dept of Transportation District 1 Bureau of Maintenance	Existing
Surface Transportation Weather Service	Weather Services	Private Weather Information Providers	Existing
Toll Administration	City of Chicago Skyway Operations	City of Chicago / SCC	Existing
	ISTHA IPASS Business Center	Illinois State Toll Highway Authority	Existing
Toll Collection	City of Chicago Skyway Field Equipment	City of Chicago Department of Streets and Sanitation	Planned
	City of Chicago Skyway Toll Plaza	City of Chicago / SCC	Planned
	ISTHA I-Pass Toll Plazas	Illinois State Toll Highway Authority	Existing
Traffic Management	Arterial Performance Monitoring System	Arterial Performance Monitoring System Joint Venture Group	Planned
	Borman Traffic Management Center	Indiana Dept of Transportation- Laporte District	Existing
	City of Chicago Incident Center (CIC)	City of Chicago OEMC and TMA	Existing
	City of Chicago Skyway Operations	City of Chicago / SCC	Existing
	City of Chicago TMC	City of Chicago OEMC and TMA	Existing
	Cook County TMC	Cook County Highway Department	Planned
	DuPage County TMC	DuPage County Division of Transportation	Existing
	Gateway Central	Illinois Dept of Transportation ITS Program Office	Existing
	Grundy County TMC	Grundy County Highway Department	Potential
	IDOT Central Bureau of Operations Roadway and Weather Information System	Illinois Dept of Transportation Central Bureau of Operations	Existing
	IDOT District 1 Bureau of Traffic - Arterial Operations	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing
	IDOT District 1 ComCenter	Illinois Dept of Transportation District 1 Bureau of Electrical Operations	Existing

Entity	Element	Stakeholder	Status
	IDOT District 1 Traffic Systems Center (TSC)	Illinois Dept of Transportation District 1 Bureau of Traffic	Existing
	Illinois Gateway	Illinois Dept of Transportation ITS Program Office	Existing
	Indiana DOT Arterial TMC	Indiana Dept of Transportation	Planned
	Indiana Gateway	Indiana Dept of Transportation	Existing
	Indiana Toll Road Operations Center	Indiana Toll Road Concession Company (ITRCC)	Existing
	ISTHA TMC (TIMS)	Illinois State Toll Highway Authority	Existing
	Kane County TMC	Kane County Division of Transportation	Planned
	Kendall County TMC	Kendall County Highway Department	Potential
	Lake County PASSAGE TMC	Lake County Division of Transportation	Existing
	McHenry County TMC	McHenry County Highway	Potential
	Municipal TMCs	Municipalities/Townships	Existing
	Satellite TMC Midway Airport	City of Chicago Department of Aviation	Existing
	Satellite TMC OHare Airport	City of Chicago Department of Aviation	Existing
	South Suburban Airport TMC	Regional Airport Authority	Planned
	Will County TMC	Will County Department of Highways	Potential
	Wisconsin Gateway (MONITOR)	Wisconsin Dept of Transportation	Existing
	WsDOT Statewide Traffic Operations Center	Wisconsin Dept of Transportation	Existing
Transit Management	Chicago Transit Authority ATSS System	Chicago Transit Authority	Planned
	Chicago Transit Authority BusInfo System	Chicago Transit Authority	Planned
	Chicago Transit Authority Control Center	Chicago Transit Authority	Existing
	Chicago Transit Authority Garages	Chicago Transit Authority	Existing
	Chicago Transit Authority Revenue Collection Center	Chicago Transit Authority	Existing
	Illinois Transit Hub	Regional Transportation Authority	Existing
	Independent School District Dispatch	Independent School Districts	Planned
	Metra Consolidated Control Facility	Metra	Existing

Entity	Element	Stakeholder	Status
	Metra GPS Center (TIMS)	Metra	Existing
	Metra Maintenance Yards	Metra	Existing
	Metra Passenger Information Display System	Metra	Planned
	Municipal Transit Operations	Municipalities/Townships	Existing
	NICTD Dispatch	Northwestern Indiana Commuter Transportation District	Existing
	Pace BusInfo System	Pace	Planned
	Pace Control Center (IBS)	Pace	Existing
	Pace Garages	Pace	Existing
	Private Bus Dispatch	Private Bus Agencies	Existing
	Private Taxi Dispatch	Private Taxi Companies	Existing
	Public/Non-Profit Paratransit Services	Public and Non-Profit Paratransit Agencies	Existing
	Regional Transportation Authority Travel Information Center (TIC)	Regional Transportation Authority	Existing
	RTA Multimodal Trip Planner	Regional Transportation Authority	Existing
	RTA Passenger Certification Database	Regional Transportation Authority	Existing
Transit Signal Controls	Chicago Transit Authority Rail Signaling Equipment	Chicago Transit Authority	Existing
	Metra Track and Signaling Equipment	Metra	Existing
Transit System Operators	Metra Rail Operator	Metra	Existing
Transit Vehicle Subsystem	Chicago Transit Authority Bus Vehicles	Chicago Transit Authority	Existing
	Chicago Transit Authority Rapid Transit Vehicles	Chicago Transit Authority	Existing
	Metra Trains	Metra	Existing
	Pace Paratransit Vehicles	Pace	Existing
	Pace Transit Bus Vehicles	Pace	Existing
Traveler Card	Chicago Transit Authority Smartcard	Travelers	Existing
	Universal Fare Card	Travelers	Planned
Vehicle	Vehicles	Travelers	Existing
Wayside Equipment	Metra Wayside Equipment	Metra	Existing

5. Market Packages

The ITS systems in the region currently provide a wide array of transportation services and that list will grow as more systems are developed or upgraded. The services are described by the set

of market packages that are shown in Table 6. This table provides for each market package the status (is it currently provided or planned) and the primary elements associated with the market package.

Table 6: Regional Market Packages

Market Package	Market Package Name	Element	Status
AD1	ITS Data Mart	Academic/Research Organizations Data Warehouse	Existing
		CMAP Northeastern Illinois Regional Data Archive	Planned
		DuPage County TMC	Planned
		GCM Data Archive	Planned
		IDOT District 1 ComCenter	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		Illinois Gateway	Existing
		Illinois GIS Transportation Coalition	Existing
		Illinois Transit Hub	Existing
		Municipal TMCs	Planned
		Pace Data Archive	Planned
AD2	ITS Data Warehouse	Academic/Research Organizations Data Warehouse	Existing
		Arterial Performance Monitoring System	Planned
		CMAP Northeastern Illinois Regional Data Archive	Planned
		Illinois Gateway	Existing
		Gateway Central	Planned
		GCM Data Archive	Planned
		Kane County 911 Center	Potential
		Kane County TMC	Potential
		Regional Transit Asset Management System (RTAMS)	Planned
University of Illinois ICT Data Archive	Planned		
AD3	ITS Virtual Data Warehouse	Academic/Research Organizations Data Warehouse	Potential
		Arterial Performance Monitoring System	Potential
		Chicago Transit Authority Data Archive	Potential
		CMAP Northeastern Illinois Regional Data Archive	Potential
		GCM Data Archive	Potential
		IDOT District 1 ComCenter	Potential
		ISTHA TMC (TIMS)	Potential
		Northeastern Illinois Regional Data Archive	Potential
		Pace Data Archive	Potential
University of Illinois ICT Data Archive	Potential		
APTS1	Transit Vehicle Tracking	Chicago Transit Authority Bus Tracker Website	Existing
		Chicago Transit Authority Bus Vehicles	Existing

Market Package	Market Package Name	Element	Status
		Chicago Transit Authority Control Center	Existing
		Metra Consolidated Control Facility	Existing
		Metra Trains	Existing
		Pace Control Center (IBS)	Existing
		Pace Paratransit Vehicles	Existing
		Pace Transit Bus Vehicles	Existing
		Private Bus Dispatch	Existing
		Private Taxi Dispatch	Existing
		Regional Paratransit Dispatch	Existing
APTS2	Transit Fixed-Route Operations	Chicago Transit Authority Bus Vehicles	Existing
		Chicago Transit Authority Control Center	Existing
		Independent School District Dispatch	Existing
		Metra Consolidated Control Facility	Existing
		Metra Trains	Existing
		Municipal Transit Operations	Existing
		Pace Control Center (IBS)	Existing
		Pace Transit Bus Vehicles	Existing
		Private Bus Dispatch	Existing
		Regional Transportation Authority Travel Information Center (TIC)	Existing
APTS3	Demand Response Transit Operations	Chicago Transit Authority Rapid Transit Vehicles	Existing
		Pace Paratransit Vehicles	Existing
		Private Bus Dispatch	Existing
		Private Taxi Dispatch	Existing
		Public/Non-Profit Paratransit Services	Existing
		Regional Paratransit Dispatch	Existing
APTS4	Transit Passenger and Fare Management	Chicago Transit Authority Bus Vehicles	Existing
		Chicago Transit Authority Farecard Machines	Existing
		Chicago Transit Authority Rapid Transit Turnstiles	Existing
		Chicago Transit Authority Rapid Transit Vehicles	Existing
		Chicago Transit Authority Revenue Collection Center	Existing
		Chicago Transit Authority Smartcard	Existing
		Pace Control Center (IBS)	Existing
		Pace Paratransit Vehicles	Existing
		Regional Paratransit Dispatch	Existing
		Regional Transportation Authority Travel Information Center (TIC)	Existing
		RTA Passenger Certification Database	Existing
APTS5	Transit Security	Chicago Transit Authority Bus Vehicles	Planned

Market Package	Market Package Name	Element	Status
		Chicago Transit Authority Control Center	Planned
		Chicago Transit Authority Rapid Transit Vehicles	Planned
		Chicago Transit Authority Security Equipment	Planned
		Metra Consolidated Control Facility	Planned
		Metra Trains	Planned
		Municipal Public Safety Dispatch	Planned
		Municipal Transit Operations	Planned
		Pace Control Center (IBS)	Planned
		Pace Paratransit Vehicles	Planned
		Pace Transit Bus Vehicles	Planned
		Public/Non-Profit Paratransit Services	Planned
		Regional Paratransit Dispatch	Planned
		APTS6	Transit Maintenance
Chicago Transit Authority Control Center	Planned		
Metra Consolidated Control Facility	Planned		
Metra Trains	Planned		
Pace Control Center (IBS)	Planned		
Pace Transit Bus Vehicles	Planned		
APTS7	Multi-modal Coordination	AMTRAK Rail	Planned
		Chicago Airports	Planned
		Chicago Transit Authority Bus Vehicles	Planned
		Chicago Transit Authority BusInfo System	Planned
		Chicago Transit Authority Control Center	Planned
		Chicago Transit Authority Parking Management Guidance System	Planned
		City of Chicago OEMC Field Equipment	Planned
		DuPage County Field Equipment	Planned
		DuPage County TMC	Planned
		Gateway Central	Planned
		IDOT District 1 Bureau of Traffic – Arterial Operations	Planned
		Illinois Gateway	Planned
		Illinois Transit Hub	Planned
		Independent School District Dispatch	Planned
		Kenosha Transit Dispatch	Planned
		Metra Consolidated Control Facility	Planned
		Metra Trains	Planned
		Municipal TMCs	Planned
		Municipal Transit Operations	Planned
		NICTD Dispatch	Planned
Pace Control Center (IBS)	Planned		
Pace Transit Bus Vehicles	Planned		
Private Bus Dispatch	Planned		

Market Package	Market Package Name	Element	Status
		Private Taxi Dispatch	Planned
		Regional Paratransit Dispatch	Planned
		Regional Transportation Authority Travel Information Center (TIC)	Planned
		RTA Multimodal Trip Planner	Planned
		Satellite TMC OHare Airport	Planned
		Water Taxi Service	Planned
APTS8	Transit Traveler Information	Chicago Transit Authority BusInfo Signs	Planned
		Chicago Transit Authority Active Transit Station Signs	Planned
		Chicago Transit Authority ATSS System	Planned
		Chicago Transit Authority Bus Vehicles	Planned
		Chicago Transit Authority BusInfo System	Planned
		Chicago Transit Authority Control Center	Planned
		Gateway Website	Planned
		Illinois Transit Hub	Planned
		InfoTrans Signs	Planned
		Metra Consolidated Control Facility	Planned
		Metra GPS Center (TIMS)	Planned
		Metra Passenger Information Display Signs	Planned
		Metra Public Address System	Planned
		Metra Suburban Passenger Information Display Signs	Planned
		Metra Trains	Planned
		Municipal Transit Operations	Planned
		Pace BusInfo Signs	Planned
		Pace BusInfo System	Planned
		Pace Transit Bus Vehicles	Planned
		Regional Transportation Authority Travel Information Center (TIC)	Planned
		RTA Multimodal Information Kiosks	Planned
		RTA Multimodal Trip Planner	Planned
		User Personal Computing Devices	Planned
		WebWatch Internet Site	Planned
		Wisconsin Gateway (MONITOR)	Planned
ATIS1	Broadcast Traveler Information	Chicago Bureau of Convention and Tourism Database	Existing
		Chicago Transit Authority Bus Tracker Website	Existing
		City of Chicago DOT Transportation Website	Existing
		DuPage County TMC	Existing
		Gateway Website	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT Metro Kiosks	Existing

Market Package	Market Package Name	Element	Status
		IDOT Rest Area Kiosks	Existing
		Illinois Gateway	Existing
		Indiana Gateway	Existing
		ISTHA TIMS Kiosks	Existing
		ISTHA TMC (TIMS)	Existing
		Media	Existing
		Private ISPs - Travel Information Services	Existing
		Regional Transportation Authority Travel Information Center (TIC)	Existing
		User Personal Computing Devices	Existing
		Vehicles	Existing
		Weather Services	Existing
		Will County TMC	Existing
		Wisconsin Gateway (MONITOR)	Existing
ATIS2	Interactive Traveler Information	City of Chicago DOT Transportation Website	Planned
		City of Chicago DOT Traveler Information Kiosks	Planned
		Gateway Website	Planned
		IDOT Rest Area Kiosks	Planned
		Illinois DOT Info	Planned
		Illinois Gateway	Existing
		ISTHA TIMS Kiosks	Planned
		Media	Existing
		Metra Passenger Information Display System	Planned
		Northeastern Illinois 511 System	Planned
		Private ISPs - Travel Information Services	Planned
		Regional Transportation Authority Travel Information Center (TIC)	Existing
		RTA Multimodal Trip Planner	Existing
		User Personal Computing Devices	Existing
		Vehicles	Existing
ATIS5	ISP Based Route Guidance	Gateway Central	Planned
		Gateway Website	Planned
		IDOT Rest Area Kiosks	Planned
		ISTHA TIMS Kiosks	Planned
		Private ISPs - Travel Information Services	Planned
		RTA Multimodal Trip Planner	Existing
		User Personal Computing Devices	Planned
		Vehicles	Planned
ATIS7	Yellow Pages and Reservation	Chicago Transit Authority Active Transit Station Signs	Planned
		Illinois Transit Hub	Planned
		Regional Transportation Authority Travel Information Center (TIC)	Planned

Market Package	Market Package Name	Element	Status
		RTA Multimodal Information Kiosks	Planned
ATIS8	Dynamic Ridesharing	Regional Ridesharing and Vanpooling	Planned
ATIS9	In Vehicle Signing	City of Chicago OEMC Field Equipment	Planned
		Cook County Highway Department Field Equipment	Planned
		Lake County Field Equipment	Planned
		Vehicles	Planned
ATMS01	Network Surveillance	City of Chicago Department of Aviation Field Equipment	Existing
		City of Chicago DSS Field Equipment	Existing
		City of Chicago OEMC Field Equipment	Existing
		City of Chicago Skyway Field Equipment	Existing
		City of Chicago Skyway Operations	Existing
		City of Chicago TMC	Existing
		Cook County Highway Department Field Equipment	Planned
		Cook County TMC	Planned
		DuPage County Field Equipment	Existing
		DuPage County TMC	Existing
		Grundy County Field Equipment	Potential
		Grundy County TMC	Potential
		IDOT District 1 Bureau of Traffic - Arterial Operations	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT District 1 Traffic Systems Center Field Equipment	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing
		Kane County Field Equipment	Existing
		Kane County TMC	Existing
		Kendall County Field Equipment	Potential
		Kendall County TMC	Potential
		Lake County Field Equipment	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County Field Equipment	Existing
		McHenry County TMC	Existing
		Municipal TMCs	Existing
		Red Light Running Cameras	Existing
Satellite TMC OHare Airport	Existing		
Will County Field Equipment	Existing		

Market Package	Market Package Name	Element	Status
		Will County TMC	Existing
ATMS02	Probe Surveillance	Arterial Performance Monitoring System	Planned
		City of Chicago Skyway Operations	Existing
		ISTHA IPASS Business Center	Existing
		ISTHA I-Pass Toll Plazas	Existing
		Vehicles	Existing
ATMS03	Surface Street Control	City of Chicago OEMC Field Equipment	Existing
		City of Chicago TMC	Existing
		Cook County Highway Department Field Equipment	Existing
		Cook County TMC	Existing
		DuPage County Field Equipment	Existing
		DuPage Area TMC	Existing
		DuPage County TMC	Existing
		Grundy County Field Equipment	Potential
		Grundy County TMC	Potential
		IDOT District 1 Bureau of Traffic - Arterial Operations	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Existing
		Indiana DOT Arterial TMC	Existing
		Kane County Field Equipment	Existing
		Kane County TMC	Existing
		Kendall County Field Equipment	Potential
		Kendall County TMC	Potential
		Lake County Field Equipment	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County Field Equipment	Existing
		McHenry County TMC	Existing
		Municipal TMCs	Existing
		Satellite TMC Midway Airport	Existing
		Satellite TMC OHare Airport	Existing
		Will County Field Equipment	Existing
		Will County TMC	Existing
ATMS04	Freeway Control	IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT District 1 Traffic Systems Center Field Equipment	Existing
		Indiana Toll Road Operations Center	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing

Market Package	Market Package Name	Element	Status
ATMS05	HOV Lane Management	IDOT District 1 Traffic Systems Center (TSC)	Planned
		IDOT District 1 Traffic Systems Center Field Equipment	Planned
		Kane County Field Equipment	Potential
		Kane County TMC	Potential
ATMS06	Traffic Information Dissemination	City of Chicago DOT Transportation Website	Existing
		City of Chicago DOT Traveler Information Kiosks	Existing
		City of Chicago OEMC Field Equipment	Existing
		City of Chicago Skyway Operations	Existing
		City of Chicago TMC	Existing
		Cook County Highway Department Field Equipment	Existing
		Cook County TMC	Existing
		DuPage County EOC	Planned
		DuPage County Maintenance Operations	Planned
		DuPage County Field Equipment	Existing
		DuPage County TMC	Existing
		Gateway Website	Existing
		Grundy County Field Equipment	Potential
		Grundy County TMC	Potential
		IDOT District 1 Bureau of Traffic - Arterial Operations	Planned
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Planned
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT District 1 Traffic Systems Center Field Equipment	Existing
		Illinois Transit Hub	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing
		Kane County Field Equipment	Existing
		Kane County TMC	Existing
		Kendall County Field Equipment	Potential
		Kendall County TMC	Potential
		Lake County Field Equipment	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County Field Equipment	Existing
		McHenry County TMC	Existing
		Municipal TMCs	Planned
Municipal/Township Field Equipment	Planned		
Private ISPs - Travel Information Services	Existing		

Market Package	Market Package Name	Element	Status
		Satellite TMC Midway Airport	Existing
		Satellite TMC OHare Airport	Existing
		South Suburban Airport TMC	Existing
		Vehicles	Existing
		Will County Field Equipment	Planned
		Will County TMC	Existing
ATMS07	Regional Traffic Control	Borman Traffic Management Center	Existing
		City of Chicago OEMC Field Equipment	Existing
		City of Chicago Skyway Operations	Existing
		City of Chicago TMC	Existing
		Cook County Highway Department Roadside Equipment	Planned
		Cook County TMC	Planned
		DuPage County Field Equipment	Existing
		DuPage County TMC	Existing
		Gateway Central	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT District 1 Traffic Systems Center Field Equipment	Existing
		Illinois Gateway	Existing
		Indiana DOT Arterial TMC	Existing
		Indiana Gateway	Existing
		Indiana Toll Road Operations Center	Existing
		ISTHA TMC (TIMS)	Existing
		Kane County Field Equipment	Existing
		Kane County TMC	Existing
		Lake County Field Equipment	Existing
		Lake County TMC	Existing
		McHenry County Field Equipment	Existing
		McHenry County TMC	Existing
		Municipal TMCs	Existing
		Satellite TMC Midway Airport	Existing
		Satellite TMC OHare Airport	Existing
		South Suburban Airport TMC	Existing
		Will County Field Equipment	Existing
		Will County TMC	Existing
		Wisconsin Gateway (MONITOR)	Existing
ATMS08	Incident Management System	*999 Cellular Express Line	Existing
		Borman Traffic Management Center	Existing
		City of Chicago 911 CAD	Existing

Market Package	Market Package Name	Element	Status
		City of Chicago DSS Bureau of Traffic Services Dispatch	Existing
		City of Chicago DSS Field Equipment	Existing
		City of Chicago OEMC Field Equipment	Existing
		City of Chicago Skyway Operations	Existing
		City of Chicago TMC	Existing
		Coast Guard Dispatch	Existing
		Cook County Highway Department Maintenance Bureau	Existing
		Cook County Sheriff Communications Center	Existing
		Cook County TMC	Existing
		DuPage County EOC	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County Sheriff Communications Center	Existing
		DuPage County TMC	Existing
		Gateway Website	Existing
		Grundy County Field Equipment	Potential
		Grundy County TMC	Potential
		Highway Emergency Lane Patrol Vehicles	Existing
		IDOT District 1 Bureau of Traffic – Arterial Operations	Existing
		IDOT District 1 Bureau of Traffic- Expressway Operations Unit	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 Maintenance Management	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT Emergency Traffic Patrol (ETP)	Existing
		Illinois Gateway	Existing
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Existing
		Illinois State Police District 15 Operations Desk	Existing
		Indiana County/ Municipal Public Safety Dispatch	Existing
		Indiana DOT Arterial TMC	Existing
		Indiana State Police Dispatch	Existing
		ISTHA Computer Aided Dispatch Center	Existing
		ISTHA Maintenance and Construction	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing
		Kane County 911 Center	Existing
		Kane County Maintenance Operations	Existing
		Kane County TMC	Existing
		Kendall County Field Equipment	Potential
		Kendall County TMC	Potential

Market Package	Market Package Name	Element	Status
		Lake County Communications Center	Existing
		Lake County EOC	Existing
		Lake County Field Equipment	Existing
		Lake County Highway Maintenance Operations	Existing
		Lake County PASSAGE TMC	Existing
		Mayors Office of Special Events	Existing
		McHenry County Maintenance Operations	Existing
		McHenry County Sheriff Dispatch	Existing
		McHenry County TMC	Existing
		Media	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Municipal TMCs	Existing
		Municipal/Township Field Equipment	Existing
		Private Sector Maintenance Contractor Operations	Planned
		Private Tow and Recovery Operations	Existing
		Rail Freight Operations	Existing
		Regional Event Facilities	Existing
		Regional Transportation Authority Travel Information Center	Existing
		Satellite TMC Midway Airport	Existing
		Satellite TMC OHare Airport	Existing
		Utility Company Operations	Planned
		Will County EOC	Existing
		Will County Field Equipment	Planned
		Will County Maintenance Operations	Existing
		Will County Sheriff Communications Center	Existing
		Will County TMC	Existing
		Wisconsin Municipal Public Safety	Existing
		Wisconsin State Patrol District 2 Dispatch	Existing
ATMS09	Traffic Forecast and Demand Management	Illinois Gateway	Existing
ATMS10	Electronic Toll Collection	City of Chicago Skyway Field Equipment	Existing
		City of Chicago Skyway Operations	Existing
		City of Chicago Skyway Toll Plaza	Existing
		ISTHA IPASS Business Center	Existing
		ISTHA I-Pass Toll Plazas	Existing
		Vehicles	Existing
ATMS11	Emissions Monitoring and Management	Illinois Environmental Protection Agency (EPA)	Existing
		Illinois Gateway	Existing
ATMS13	Standard Railroad Grade Crossing	AMTRAK Rail	Existing
		City of Chicago OEMC Field Equipment	Existing

Market Package	Market Package Name	Element	Status
		Cook County Highway Department Field Equipment	Existing
		DuPage County Field Equipment	Existing
		DuPage County TMC	Planned
		Grundy County Field Equipment	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Existing
		Kane County Field Equipment	Existing
		Kendall County Field Equipment	Existing
		Lake County Field Equipment	Existing
		McHenry County Field Equipment	Existing
		Metra Consolidated Control Facility	Existing
		Metra Track and Signaling Equipment	Planned
		Metra Wayside Equipment	Existing
		Municipal TMCs	Existing
		Municipal/Township Field Equipment	Existing
		Rail Freight Operations	Existing
		Will County Field Equipment	Existing
		Will County TMC	Existing
ATMS14	Advanced Railroad Grade Crossing	AMTRAK Rail	Existing
		City of Chicago OEMC Field Equipment	Existing
		Cook County Highway Department Field Equipment	Existing
		DuPage County Field Equipment	Existing
		Grundy County Field Equipment	Existing
		Kane County Roadside Equipment	Existing
		Kendall County Roadside Equipment	Existing
		Lake County Roadside Equipment	Existing
		McHenry County Roadside Equipment	Existing
		Metra Consolidated Control Facility	Existing
		Metra Wayside Equipment	Existing
		Rail Freight Operations	Existing
Will County Roadside Equipment	Existing		
ATMS15	Railroad Operations Coordination	AMTRAK Rail	Planned
		City of Chicago TMC	Planned
		IDOT District 1 Bureau of Traffic - Arterial Operations	Planned
		Metra Consolidated Control Facility	Planned
		Rail Freight Operations	Planned
ATMS16	Parking Facility Management	Chicago Airport Parking Systems	Planned
		Chicago Park District Parking Management System	Planned

Market Package	Market Package Name	Element	Status
		Chicago Transit Authority Parking Management Guidance System	Planned
		Metra Parking Management Guidance System	Existing
		MPEA Parking Management	Planned
		Municipal Parking Management Guidance System	Planned
		Private Parking Lots	Planned
		Satellite TMC Midway Airport Vehicles	Existing
			Planned
ATMS17	Regional Parking Management	Chicago Transit Authority Parking Management Guidance System	Planned
		Metra Parking Management Guidance System	Planned
ATMS18	Reversible Lane Management	IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
ATMS20	Drawbridge Management	IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
ATMS21	Roadway Closure Management	IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
AVSS05	Intersection Safety Warning	City of Chicago OEMC Field Equipment	Planned
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Planned
		Vehicles	Planned
CVO01	Fleet Administration	Commercial Vehicles	Planned
		Hazmat Management and Cleanup	Planned
		Trucking Distribution Centers	Planned
CVO02	Freight Administration	Commercial Vehicles	Planned
		Hazmat Management and Cleanup	Planned
		OHare Air Cargo Terminal	Planned
		Port of Chicago Intermodal Facilities	Planned
		Trucking Distribution Centers	Planned
CVO03	Electronic Clearance	Commercial Vehicles	Existing
		CVO Crash Reporting (MCSAP)	Existing
		CVO Inspection Reporting (ASPEN)	Existing
		Hazmat Management and Cleanup	Existing
		IDOT CVO Inspection Facility	Existing
		IDOT CVO Permitting - Oversize/Overweight	Existing
		IDOT Weigh Stations	Existing
		Illinois EOSS/ CVISN Web Site	Existing
		Illinois Single State Registration System	Existing
		ISTHA Weigh in Motion	Existing
		Trucking Distribution Centers	Existing
CVO04	CV Administrative Processes	IDOT CVO Permitting - Oversize/Overweight	Existing
		Illinois EOSS/ CVISN Web Site	Existing

Market Package	Market Package Name	Element	Status
		Illinois Single State Registration System	Existing
		Trucking Distribution Centers	Existing
CVO06	Weigh-In-Motion	Commercial Vehicles	Existing
		CVO Crash Reporting (MCSAP)	Existing
		CVO Inspection Reporting (ASPEN)	Existing
		IDOT CVO Inspection Facility	Existing
		IDOT Weigh Stations	Existing
		ISTHA Weigh in Motion	Existing
		Will County Weigh in Motion	Existing
CVO07	Roadside CVO Safety	Commercial Vehicles	Existing
		CVO Crash Reporting (MCSAP)	Existing
		CVO Inspection Reporting (ASPEN)	Existing
		IDOT CVO Inspection Facility	Existing
		IDOT CVO Permitting - Oversize/Overweight	Existing
		IDOT Weigh Stations	Existing
		Illinois EOSS/ CVISN Web Site	Existing
		Illinois Single State Registration System	Existing
CVO08	On-board CVO Safety	Commercial Vehicles	Planned
		CVO Crash Reporting (MCSAP)	Planned
		CVO Inspection Reporting (ASPEN)	Planned
		IDOT CVO Inspection Facility	Planned
		IDOT Weigh Stations	Planned
CVO09	CVO Fleet Maintenance	Commercial Vehicles	Existing
		Hazmat Management and Cleanup	Existing
		Trucking Distribution Centers	Existing
CVO10	HAZMAT Management	City of Chicago 911 CAD	Existing
		Commercial Vehicles	Existing
		DuPage County EOC	Existing
		Hazmat Management and Cleanup	Existing
		IDOT District 1 ComCenter	Existing
		IDOT Emergency Traffic Patrol (ETP)	Existing
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Existing
		Illinois State Police District 15 Operations Desk	Existing
		ISTHA Computer Aided Dispatch Center	Existing
		Kane County EOC	Existing
		McHenry County EOC	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Trucking Distribution Centers	Existing
		Will County EOC	Existing
		Will County Sheriff Communications Center	Existing
EM01	Emergency Response	City of Chicago 911 CAD	Existing

Market Package	Market Package Name	Element	Status
		City of Chicago Operations Center (OC)	Existing
		Coast Guard Dispatch	Existing
		Cook County EOC	Existing
		Cook County Sheriff Communications Center	Existing
		DuPage County EOC	Existing
		DuPage County Sheriff Communications Center	Existing
		Gateway Central	Existing
		Grundy County 911 Center	Existing
		Grundy County EOC	Existing
		Highway Emergency Lane Patrol Vehicles	Existing
		IDOT District 1 ComCenter	Existing
		IDOT Emergency Traffic Patrol (ETP)	Existing
		IDOT Emergency Traffic Patrol Vehicles	Existing
		Illinois Gateway	Existing
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Existing
		Illinois State Police District 15 Operations Desk	Existing
		Illinois State Police Vehicles	Existing
		Illinois Transit Hub	Existing
		Indiana County/ Municipal Public Safety Dispatch	Existing
		Indiana State Police Dispatch	Existing
		ISTHA Computer Aided Dispatch Center	Existing
		Kane County 911 Center	Existing
		Kane County EOC	Existing
		Kendall County 911 Center	Existing
		Kendall County EOC	Existing
		Lake County Communications Center	Existing
		Lake County EOC	Existing
		McHenry County EOC	Existing
		McHenry County Sheriff Dispatch	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Private Tow and Recovery Operations	Existing
		Statewide Emergency Operations Center	Existing
		Will County EOC	Existing
		Will County Sheriff Communications Center	Existing
		Wisconsin Municipal Public Safety	Existing
		Wisconsin State Patrol District 2 Dispatch	Existing
EM02	Emergency Routing	City of Chicago 911 CAD	Existing
		City of Chicago OEMC Field Equipment	Existing
		Cook County Highway Department Field Equipment	Existing

Market Package	Market Package Name	Element	Status
		DuPage County EOC	Existing
		DuPage County Field Equipment	Existing
		DuPage County Sheriff Communications Center	Existing
		DuPage County TMC	Existing
		Highway Emergency Lane Patrol Vehicles	Existing
		IDOT District 1 Bureau of Traffic – Arterial Operations Field Equipment	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT Emergency Traffic Patrol Vehicles	Existing
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Existing
		Illinois State Police District 15 Operations Desk	Existing
		Illinois State Police Vehicles	Existing
		ISTHA TMC (TIMS)	Existing
		Lake County Roadside Equipment	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Municipal Public Safety Vehicles	Existing
		Municipal/Township Field Equipment	Existing
		Private Tow and Recovery Operations	Existing
		Regional Hospitals	Existing
Statewide Emergency Operations Center	Existing		
EM03	Mayday Support	City of Chicago 911 CAD	Planned
		DuPage County Sheriff Communications Center	Planned
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Planned
		Illinois State Police District 15 Operations Desk	Planned
		ISTHA Computer Aided Dispatch Center	Planned
		Municipal Public Safety Dispatch	Planned
EM04	Roadway Service Patrols	DuPage County EOC	Existing
		Highway Emergency Lane Patrol Vehicles	Existing
		IDOT District 1 ComCenter	Existing
		IDOT Emergency Traffic Patrol (ETP)	Existing
		IDOT Emergency Traffic Patrol Vehicles	Existing
		ISTHA Dispatch Center	Existing
		Private Tow and Recovery Operations	Existing
EM05	Transportation Infrastructure Protection	Chicago Transit Authority Control Center	Existing
		Chicago Transit Authority Security Equipment	Existing
		City of Chicago OEMC Security Monitoring Equipment	Existing
		City of Chicago Operations Center (OC)	Existing
		DuPage County EOC	Existing
		DuPage County EOC Field Equipment	Existing

Market Package	Market Package Name	Element	Status
		IDOT Bureau of Bridges and Structures Field Equipment	Existing
		IDOT District 1 Maintenance Management	Existing
		Metra Consolidated Control Facility	Existing
		Metra Security Equipment	Existing
		Pace Control Center (IBS)	Existing
		Pace Security Equipment	Existing
		Statewide Emergency Operations Center	Existing
EM06	Wide-Area Alert	City of Chicago 911 CAD	Planned
		City of Chicago OEMC Field Equipment	Existing
		City of Chicago Operations Center (OC)	Existing
		City of Chicago TMC	Existing
		Cook County EOC	Existing
		Cook County Highway Department Field Equipment	Existing
		Cook County Sheriff Communications Center	Existing
		Cook County TMC	Existing
		DuPage County EOC	Existing
		DuPage County Field Equipment	Existing
		DuPage County Sheriff Communications Center	Existing
		DuPage County TMC	Existing
		Indiana County/Municipal Public Safety Dispatch	Existing
		Indiana DOT Arterial TMC	Existing
		Kane County 911 Center	Existing
		Kane County EOC	Existing
		Kenosha County Public Safety Dispatch	Existing
		Lake County Communications Center	Existing
		Lake County EOC	Existing
		Lake County Field Equipment	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County EOC	Existing
		McHenry County Field Equipment	Existing
		McHenry County Sheriff Dispatch	Existing
		McHenry County TMC	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Municipal TMCs	Existing
		Municipal/Township Field Equipment	Existing
		Private ISPs – Travel Information Services	Existing
		Statewide Emergency Operations Center	Existing
		User Personal Computing Devices	Existing
		Will County EOC	Existing
		Will County Field Equipment	Existing

Market Package	Market Package Name	Element	Status
		Will County Sheriff Communications Center	Existing
		Will County TMC	Existing
		Wisconsin Municipal Public Safety	Existing
EM08	Disaster Response and Recovery	Chicago Transit Authority Control Center	Existing
		City of Chicago 911 CAD	Existing
		City of Chicago DOT Roadway Maintenance	Existing
		City of Chicago Joint Operations Center (JOC)	Existing
		City of Chicago OEMC Unified Command Vehicle	Existing
		City of Chicago TMC	Existing
		Cook County EOC	Existing
		Cook County Highway Department Maintenance Bureau Operations	Existing
		Cook County Sheriff Communications Center	Existing
		Cook County TMC	Existing
		DuPage County EOC	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County Sheriff Communications Center	Existing
		DuPage County TMC	Existing
		Grundy County EOC	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 Maintenance Management	Existing
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Existing
		Illinois State Police District 15 Operations Desk	Existing
		Indiana County/Municipal Public Safety Dispatch	Existing
		Indiana DOT Arterial TMC	Existing
		ISTHA Computer Aided Dispatch Center	Existing
		ISTHA TMC (TIMS)	Existing
		Kane County 911 Center	Existing
		Kane County EOC	Existing
		Kane County Maintenance Operations	Existing
		Kane County TMC	Existing
		Kendall County TMC	Existing
		Kendall County EOC	Existing
		Kenosha County Highway Maintenance Operations	Existing
		Kenosha County Public Safety Dispatch	Existing
		Lake County Communications Center	Existing
		Lake County EOC	Existing
		Lake County Highway Maintenance Operations	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County EOC	Existing
		McHenry County Maintenance Operations	Existing

Market Package	Market Package Name	Element	Status
		McHenry County Sheriff Dispatch	Existing
		McHenry County TMC	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Municipal TMCs	Existing
		Municipal Transit Operations	Existing
		Municipal/Township Maintenance Operations	Existing
		Other County 911 Centers	Existing
		Other County EOCs	Existing
		Private Bus Dispatch	Existing
		Private Sector Maintenance Contractor Operations	Existing
		Private Taxi Dispatch	Existing
		Private Tow and Recovery Operations	Existing
		Public/Non-Profit Paratransit Dispatch	Existing
		Satellite TMC Midway Airport	Existing
		Satellite TMC OHare Airport	Existing
		Statewide Emergency Operations Center	Existing
		Will County EOC	Existing
		Will County Maintenance Operations	Existing
		Will County Sheriff Communications Center	Existing
		Will County TMC	Existing
		Wisconsin Municipal Public Safety	Existing
		Wisconsin State Patrol District 2 Dispatch	Existing
		WisDOT Statewide Traffic Operations Center	Existing
EM09	Evacuation and Reentry Management	AMTRAK Rail	Existing
		City of Chicago Joint Operations Center (JOC)	Existing
		City of Chicago OEMC Unified Command Vehicles	Existing
		Cook County EOC	Existing
		DuPage County EOC	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County Sheriff Communications Center	Existing
		DuPage County TMC	Existing
		Grundy County EOC	Existing
		IDOT District 1 Bureau of Traffic – Arterial Operations	Existing
		IDOT District 1 Bureau of Traffic – Expressway Operations Unit	Existing
		IDOT District 1 ComCenter	Existing
		IDOT Emergency Traffic Patrol (ETP)	Existing
		Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Existing
		Illinois State Police District 15 Operations Desk	Existing
		ISTHA Computer Aided Dispatch Center	Existing

Market Package	Market Package Name	Element	Status
		ISTHA TMC (TIMS)	Existing
		Kane County EOC	Existing
		Kendall County EOC	Existing
		Lake County EOC	Existing
		McHenry County EOC	Existing
		Metra Consolidated Control Facility	Existing
		Municipal EMCs	Existing
		Municipal Public Safety Dispatch	Existing
		Municipal TMCs	Existing
		Municipal Transit Operations	Existing
		Other County EOCs	Existing
		Private Bus Dispatch	Existing
		Private Taxi Dispatch	Existing
		Regional Paratransit Dispatch	Existing
		Satellite TMC OHare Airport	Existing
		Statewide Emergency Operations Center	Existing
		Will County EOC	Existing
MC01	Maintenance and Construction Vehicle Tracking	City of Chicago DOT Roadway Maintenance	Planned
		City of Chicago DOT Vehicles	Planned
		City of Chicago DSS Bureau of Street Operations Dispatch	Planned
		City of Chicago DSS Vehicles	Planned
		Cook County Highway Department Maintenance Bureau	Planned
		Cook County Maintenance Vehicles	Planned
		DuPage County Maintenance Operations	Planned
		DuPage County Maintenance Vehicles	Planned
		IDOT District 1 Bureau of Construction	Planned
		IDOT District 1 Maintenance Management	Planned
		IDOT Maintenance Vehicles	Planned
		ISTHA Maintenance and Construction	Planned
		ISTHA Maintenance Vehicle	Planned
		Kane County Maintenance Operations	Planned
		Kane County Maintenance Vehicles	Planned
		Lake County Highway Maintenance Operations	Planned
		Lake County Highway Maintenance Vehicles	Planned
		McHenry County Maintenance Operations	Planned
		McHenry County Maintenance Vehicles	Planned
		Municipal/Township Maintenance Operations	Planned
		Private Sector Maintenance Contractor Operations	Planned
		Utility Company Operations	Planned
		Vehicles	Planned
MC02	Maintenance and Construction	IDOT District 1 Maintenance Yards	Existing

Market Package	Market Package Name	Element	Status
	Vehicle Maintenance	IDOT Maintenance Vehicles	Existing
MC03	Road Weather Data Collection	City of Chicago DSS Field Equipment	Existing
		City of Chicago OEMC Field Equipment	Existing
		City of Chicago TMC	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County Sheriff Communications Center	Existing
		Grundy County Field Equipment	Potential
		Grundy County Maintenance Operations	Potential
		IDOT Central Bureau of Operations Field Equipment	Existing
		IDOT Central Bureau of Operations Roadway and Weather Information System	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing
		Kane County Field Equipment	Potential
		Kane County Maintenance Operations	Potential
		Kendall County Field Equipment	Potential
		Kendall County Maintenance Operations	Potential
		Private ISPs – Travel Information Services	Existing
		Weather Services	Existing
		MC04	Weather Information Processing and Distribution
DuPage TMC	Planned		
IDOT District 1 Bureau of Traffic – Arterial Operations	Existing		
IDOT District 1 Bureau of Construction	Existing		
IDOT District 1 ComCenter	Existing		
IDOT District 1 Maintenance Management	Existing		
IDOT District 1 Traffic Systems Center (TSC)	Existing		
Illinois Gateway	Existing		
ISTHA Maintenance and Construction	Existing		
ISTHA TMC (TIMS)	Existing		
Media	Existing		
Weather Services	Existing		
MC06	Winter Maintenance	City of Chicago DOT Roadway Maintenance	Existing
		City of Chicago DSS Bureau of Street Operations Dispatch	Existing
		Cook County Highway Department Maintenance Bureau	Existing
		Cook County TMC	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County TMC	Existing

Market Package	Market Package Name	Element	Status
		Grundy County Maintenance Operations	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 Maintenance Management	Existing
		IDOT District 1 Maintenance Yards	Existing
		IDOT Maintenance Vehicles	Existing
		ISTHA Computer Aided Dispatch Center	Existing
		ISTHA Maintenance and Construction	Existing
		ISTHA TMC (TIMS)	Existing
		Kane County Maintenance Operations	Existing
		Kane County TMC	Existing
		Kendall County Maintenance Operations	Existing
		Lake County Highway Maintenance Operations	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County Maintenance Operations	Existing
		McHenry County TMC	Existing
		Municipal TMCs	Existing
		Municipal/ Township Maintenance Operations	Existing
		Private Sector Maintenance Contractor Operations	Existing
		Will County Maintenance Operations	Existing
		Will County TMC	Existing
MC07	Roadway Maintenance and Construction	City of Chicago DOT Roadway Maintenance	Existing
		City of Chicago DSS Bureau of Electricity Signal Maintenance	Existing
		Cook County Highway Department Field Equipment	Existing
		Cook County Highway Department Maintenance Bureau Operations	Existing
		Cook County TMC	Existing
		DuPage County Field Equipment	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County TMC	Planned
		IDOT District 1 Bureau of Construction	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Maintenance Management	Existing
		IDOT District 1 Maintenance Yards	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT District 1 Traffic Systems Center Field Equipment	Existing
		IDOT Maintenance Vehicles	Existing
		ISTHA Computer Aided Dispatch Center	Existing

Market Package	Market Package Name	Element	Status
		ISTHA Maintenance and Construction	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing
		Kane County Field Equipment	Existing
		Kane County Maintenance Operations	Existing
		Kane County TMC	Existing
		Lake County Field Equipment	Existing
		Lake County Highway Maintenance Operations	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County Field Equipment	Existing
		McHenry County Maintenance Operations	Existing
		McHenry County TMCs	Existing
		Municipal/ Township Maintenance Operations	Existing
		Utility Company Operations	Existing
		Will County Field Equipment	Existing
		Will County Maintenance Operatons	Existing
		Will County TMC	Existing
MC08	Work Zone Management	City of Chicago DOT Roadway Maintenance	Existing
		Cook County Highway Department Construction Bureau Operations	Existing
		Cook County Highway Department Field Equipment	Existing
		Cook County Highway Department Maintenance Bureau Operations	Existing
		Cook County TMC	Existing
		DuPage County Field Equipment	Existing
		DuPage County Maintenance Operations	Existing
		DuPage County TMC	Existing
		IDOT District 1 Bureau of Construction	Existing
		IDOT District 1 Bureau of Traffic - Arterial Operations Field Equipment	Existing
		IDOT District 1 ComCenter	Existing
		IDOT District 1 ComCenter Field Equipment	Existing
		IDOT District 1 Maintenance Management	Existing
		IDOT District 1 Traffic Systems Center (TSC)	Existing
		IDOT District 1 Traffic Systems Center Field Equipment	Existing
		ISTHA Computer Aided Dispatch Center	Existing
		ISTHA Maintenance and Construction	Existing
		ISTHA TMC (TIMS)	Existing
		ISTHA TMC Field Equipment	Existing
		Kane County Field Equipment	Existing
Kane County Maintenance Operations	Existing		

Market Package	Market Package Name	Element	Status
		Kane County TMC	Existing
		Lake County Field Equipment	Existing
		Lake County Highway Maintenance Operations	Existing
		Lake County PASSAGE TMC	Existing
		McHenry County Field Equipment	Existing
		McHenry County Maintenance Operations	Existing
		McHenry County TMC	Existing
		Media	Existing
		Municipal TMCs	Existing
		Municipal/ Township Maintenance Operations	Existing
		Private Sector Maintenance Contractor	Existing
		Utility Company Operations	Existing
		Will County Field Equipment	Existing
		Will County Maintenance Operations	Existing
		Will County TMC	Existing
MC09	Work Zone Safety Monitoring	Kane County Field Equipment	Potential
		Kane County Maintenance Operations	Potential
MC10	Maintenance and Construction Activity Coordination	City of Chicago DOT Roadway Maintenance	Planned
		Cook County Highway Department Maintenance Bureau Operations	Planned
		Cook County TMC	Planned
		DuPage County Maintenance Operations	Planned
		IDOT District 1 Bureau of Construction	Planned
		IDOT District 1 Bureau of Traffic - Arterial Operations	Planned
		IDOT District 1 ComCenter	Planned
		IDOT District 1 Maintenance Management	Planned
		IDOT District 1 Traffic Systems Center (TSC)	Planned
		Illinois Gateway	Planned
		Illinois Transit Hub	Planned
		ISTHA Maintenance and Construction	Planned
		Kane County Construction Operations	Planned
		Kane County Maintenance Operations	Planned
		Kane County TMC	Planned
		Lake County Highway Construction Operations	Planned
		Lake County Highway Maintenance Operations	Planned
		Lake County PASSAGE TMC	Planned
		McHenry County Maintenance Operations	Planned
		McHenry County TMC	Planned
		Media	Planned
		Will County Maintenance Operations	Planned
		Will County TMC	Planned

6. Interfaces and Information Exchanges

6.1. Top Level Regional System Interconnect Diagram

A system interconnect diagram, or sausage diagram, shows the systems and primary types of interconnections in the region. The National ITS Architecture interconnect diagram has been customized for the Northeastern Illinois region based on the information gathered from the stakeholders and system inventory. Figure 1 on the following page summarizes the existing, planned, and potential ITS elements for the region in the context of a physical interconnect. Elements (and their primary associated National ITS Architecture entity) are called out in the boxes surrounding the main interconnect diagram. In the center of the figure the rectangles represent the subsystems of the National ITS Architecture. The Northeastern Illinois regional ITS architecture has elements that map to all 22 subsystems of the National ITS Architecture and two user-defined subsystems. In addition, the regional ITS architecture has elements that map to 20 terminators of the National ITS Architecture. These terminators are represented by the rounded rectangles on the right side of the diagram and include entities such as Care Facilities (which map to Regional Hospitals).

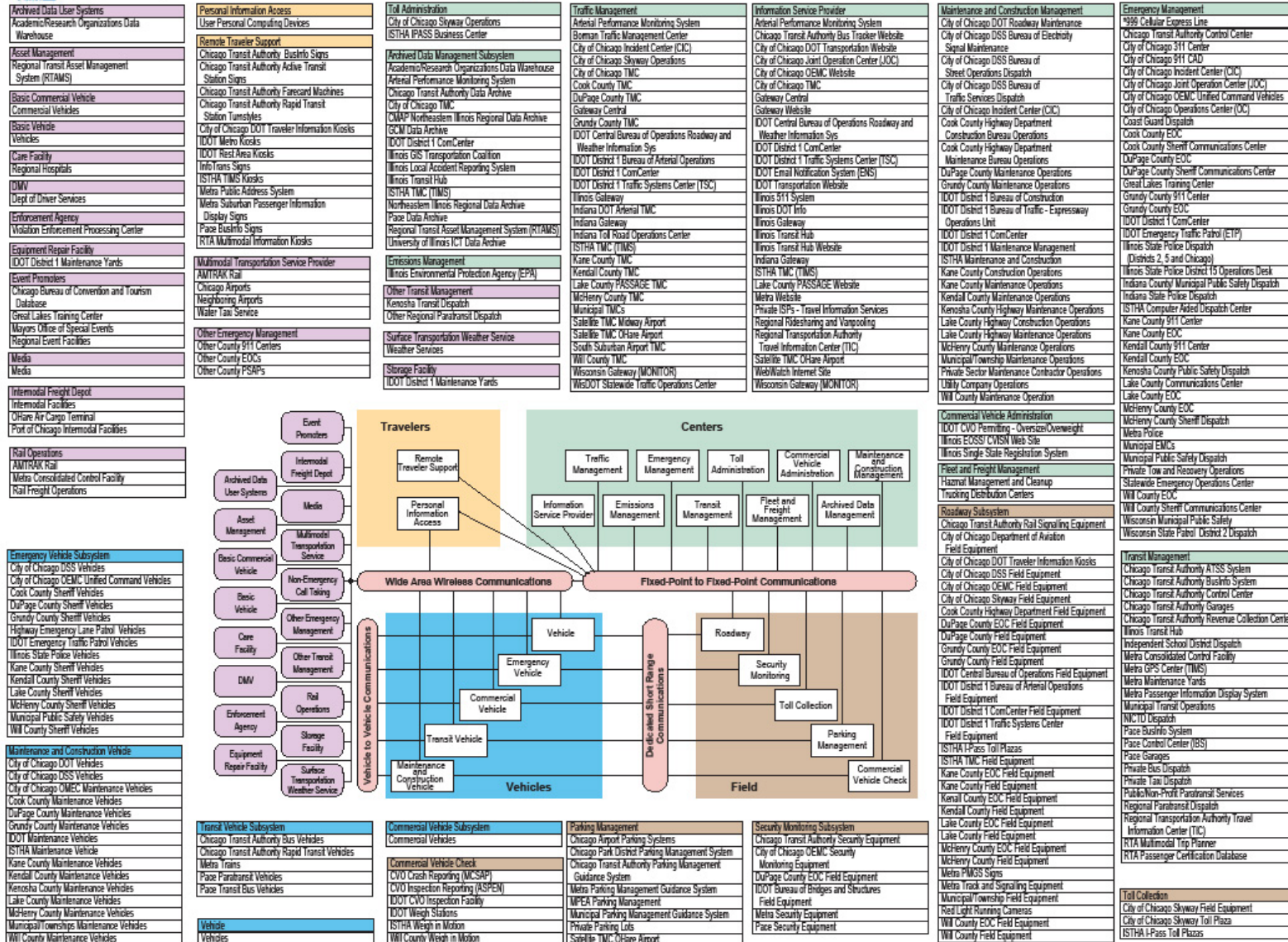
The diagram also identifies the three basic types of communications used to interconnect the elements of the architecture. These communications types are defined as:

- **Wireline Communications:** A communications link serving stationary sources. It may be implemented using a variety of public or private communications networks that may physically include wireless (e.g., microwave) as well as wireline infrastructure. Both dedicated and shared communications resources may be used.
- **Wide Area Wireless Communications:** A communications link that provides communications via a wireless device between a user and an infrastructure-based system. Both broadcast (one-way) and interactive (two-way) communications services are grouped into wide-area wireless communications. These links support a range of services including real-time traveler information and various forms of fleet communications.
- **Dedicated Short Range Communications:** A wireless communications channel used for close-proximity communications between vehicles and the immediate infrastructure. It supports location-specific communications for ITS capabilities such as toll collection, transit vehicle management, driver information, and automated commercial vehicle operations.

Figure 1: Northeastern Illinois Regional System Interconnect Diagram



Northeastern Illinois Regional ITS Architecture "Sausage Diagram"



6.2. Regional Architecture Information Flows

While it is important to identify the various systems and stakeholders as part of a regional ITS architecture, a primary purpose of the architecture is to identify the *connectivity* between transportation systems in the region. The interconnect diagram shown previously in Figure 1 showed the high level relationships of the elements in the region. The market packages represent services that can be deployed as an integrated capability, and market package diagrams show the information flows between the subsystems and terminators that are most important to the operation of the market packages. How these systems interface with each other is an integral part of the overall architecture.

There are 267 different elements identified as part of the Northeastern Illinois Regional ITS Architecture. These elements include city, county and state traffic operations centers, transit centers, transit vehicles, public safety dispatch centers, media outlets, and others—essentially all of the existing and planned physical components that contribute to the regional intelligent transportation system. Interfaces have been defined for each element in the architecture. For example, the IDOT District 1 Traffic Systems Center (TSC) has existing or planned interfaces with 42 other elements in the region ranging from field equipment to transit centers. Some of the interfaces are far less complex. For example the City of Chicago Skyway Roadside Equipment has interfaces with only two other elements in the architecture.

Each element and its defined interfaces are listed in tabular form in Appendix B. Elements and their interfaces are also accessible via the Northeastern Illinois Regional ITS Architecture web page by clicking on the “Interfaces” button. On the web page elements are listed alphabetically in the column on the left, and each entry in the Interfacing Element column on the right is a link to more detailed information about the particular interface.

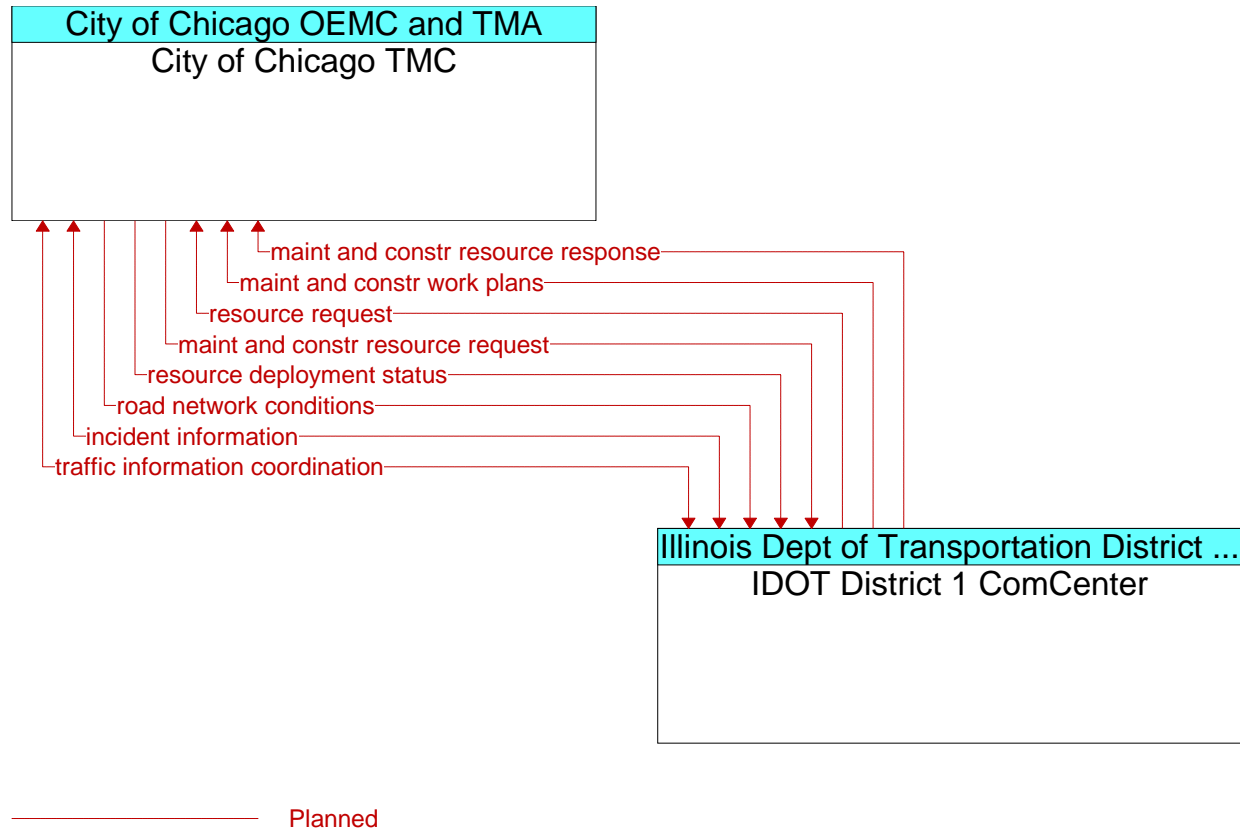
Architecture flows between the elements define specific information that is exchanged by the elements. Each architecture flow has a direction, name and definition. Most of the architecture flows match ones from the National ITS Architecture (the mapping of elements to National ITS Architecture entities allowed the developers to match the architecture flows to the appropriate interfaces.) In some cases new user defined flows have been created for interfaces or connectivities that are not expressed in the National ITS Architecture. These architecture flows define the interface requirements between the various elements in the regional architecture.

An example of the architecture flows between two elements is shown in Figure 2. In this interface the flows that go between the IDOT District 1 ComCenter and the City of Chicago DOT TMC are shown. The Chicago TMC is under development, so all the flows on this interface are shown as planned.

Each of the individual element interfaces can be accessed on the Northeastern Illinois Regional ITS Architecture web page by clicking on the “Interfaces” button. Selecting any of the interfacing elements from the column on the right will display an interface diagram and architecture flows between two specific elements, similar to the diagram shown in Figure 2. Each architecture flow is defined, and any standards associated with that data flow are noted.

Figure 2: Example of Architecture Flows between Elements.

Interface: City of Chicago TMC to IDOT District 1 ComCenter



7. Functional Requirements

Functional requirements are a description of the functions or activities that are currently performed by the ITS elements or that are planned to be performed in the future. For the Northeastern Illinois Regional ITS Architecture, these functions have been developed by using the functional assignments underlying the National ITS Architecture and the mapping from transportation services to elements shown in Table 6.

In the National ITS Architecture, a market package is defined by subsystems, equipment packages, and architecture flows, all of which operate together to perform a particular transportation service. Equipment Packages represent pieces of a subsystem that perform a single function. (Note there are no equipment packages defined for the Terminators of the National ITS Architecture, since they represent systems on the boundary of the architecture and do not have functional descriptions within the architecture.) For example the Surface Street Control market package is composed of the two Traffic Management Subsystem equipment

packages TMC Signal Control and Traffic Maintenance and the two Roadway Subsystem with its two equipment packages Roadway Signal Control and Roadway Equipment Coordination. The definitions of these four equipment packages, copied from version 6.0 of the National ITS Architecture are:

- TMC Signal Control- This equipment package provides the capability for traffic managers to monitor and manage the traffic flow at signalized intersections. This capability includes analyzing and reducing the collected data from traffic surveillance equipment and developing and implementing control plans for signalized intersections. Control plans may be developed and implemented that coordinate signals at many intersections under the domain of a single traffic management subsystem and are responsive to traffic conditions and adapt to support incidents, preemption and priority requests, pedestrian crossing calls, etc.
- Traffic Maintenance- This equipment package monitors the operational status of field equipment and detects failures. It presents field equipment status to Traffic Operations Personnel and reports failures to the Maintenance and Construction Management Subsystem. The equipment package tracks the repair or replacement of the failed equipment. The entire range of ITS field equipment may be monitored by this equipment package including sensors (traffic, infrastructure, environmental, security, speed, etc.) and devices (highway advisory radio, dynamic message signs, automated roadway treatment systems, barrier and safeguard systems, cameras, traffic signals and override equipment, ramp meters, beacons, security surveillance equipment, etc.).
- Roadway Signal Controls- This equipment package includes the field elements that monitor and control signalized intersections. It includes the traffic signal controllers, signal heads, detectors, and other ancillary equipment that supports traffic signal control. It also includes field masters, and equipment that supports communications with a central monitoring and/or control system, as applicable. The communications link supports upload and download of signal timings and other parameters and reporting of current intersection status. This equipment package represents the field equipment used in all levels of traffic signal control from basic actuated systems that operate on fixed timing plans through adaptive systems. It also supports all signalized intersection configurations, including those that accommodate pedestrians.
- Roadway Equipment Coordination- This equipment package supports direct communications between field equipment. It includes field elements that control and send data to other field elements. This includes coordination between remote sensors and field devices (e.g., Dynamic Message Signs) and coordination between the field devices themselves (e.g., direct coordination between traffic controllers that are controlling adjacent intersections.).

The approach used in the Northeastern Illinois regional ITS architecture is to begin with the mapping of equipment packages to market packages to elements as an initial definition of the functions being performed by each element. Then this mapping is tailored to provide a more accurate picture of the functions performed by the element. In doing this mapping to equipment packages and then tailoring the architecture has moved beyond the range of capabilities provided

by the Turbo Architecture tool. Using additional code we have extended the basic Turbo Architecture database to include this customized equipment package information.

The details of this functional definition are provided on the hyperlinked web site version of the architecture. To access the functions for each element that has been mapped to a subsystem entity (e.g., traffic management subsystem) the user must click on the Functionality Details icon. This will provide a listing of the equipment packages, along with their definitions that have been assigned to the element.

For example, the Cook County TMC element has the following equipment packages assigned to it:

- Collect Traffic Surveillance
- HRI Traffic Management
- TMC Incident Detection
- TMC Incident Dispatch Coordination/Communication
- TMC Regional Traffic Control
- TMC Signal Control
- TMC Traffic Information Dissemination
- TMC Work Zone Traffic Management
- Traffic Maintenance

This represents a first level of detail that can be obtained in the hyperlinked web site in connection with functionality. For each of the equipment packages shown there is another “Details” icon. Selecting this link will take the user to additional levels of detail about the function. The hyperlinked web site uses the relationships inherent in the National ITS Architecture (equipment packages are mapped to process specifications which are mapped to user service requirements) to provide the additional levels of detail.

The assignment of equipment packages to elements (the first level of detail discussed above) is provided in this document in Appendix C. For additional details of functionality, refer to the web site as described above.

8. Standards

8.1. Discussion of key standards in the region

ITS standards establish a common way in which devices connect and communicate with one another. This allows transportation agencies to implement systems that cost-effectively exchange pertinent data and accommodate equipment replacement, system upgrades, and system expansion. Standards benefit the traveling public by providing products that will function consistently and reliably throughout the region. ITS standards contribute to a safer and more efficient transportation system, facilitate regional interoperability, and promote an innovative and competitive market for transportation products and services.

Use of ITS standards is very important to project development in the northeastern Illinois region. Ninety-one ITS standards were identified during the development of the GCM Corridor ITS Architecture. Of these, sixty-eight ITS standards were determined to support projects in the GCM Corridor using a selection process. These standards apply to many areas including center-to-center, center-to-roadside, center-to-vehicle/traveler, roadside-to-roadside, and roadside-to-vehicle. Based on the interfaces and information flows chosen for the regional architecture a very similar list of ITS standards are applicable to the region. Table 7 identifies the ITS standards that are potentially applicable to the region. This table was created by taking the standards information available in the Turbo Architecture database (which identifies standards applicable to each architecture flow) and taking the total set of standards that results from all of the selected flows. The table provides the status of the standards effort as of March 2007.

The following section explains how to identify the specific applicable standards for an individual interface. The table lists the name of the standard in the first column and the Standards Development Organization (SDO) and number of the standard in the second column.

The GCM Corridor already adopted few of the NTCIP standards. For example, the GCM Gateway project used NTCIP 2305- Application Profile for Common Object Request Broker Architecture (CORBA) as an approach of implementing Center-to-Center communications. Further, the GCM Corridor adopted four of the national location referencing profiles as regional profiles.

Table 7: Applicable ITS Standards

SDO	Standard ID	Standard Title
AASHTO/ITE/NEMA	NTCIP Center-to-Center Standards Group	
	NTCIP 1102	Base Standard: Octet Encoding Rules (OER) Base Protocol
	NTCIP 1104	Center-to-Center Naming Convention Specification
	NTCIP 1105	CORBA Security Service Specification
	NTCIP 1106	CORBA Near-Real Time Data Service Specification
	NTCIP 2104	Ethernet Subnetwork Profile
	NTCIP 2202	Internet (TCP/IP and UDP/IP) Transport Profile
	NTCIP 2303	File Transfer Protocol (FTP) Application Profile
	NTCIP 2304	Application Profile for DATEX-ASN (AP-DATEX)
	NTCIP 2305	Application Profile for CORBA (AP-CORBA)
	NTCIP 2306	Application Protocol for XML Message Encoding and Transport in ITS C2C Communications
	NTCIP 2501	Information Profile for DATEX
	NTCIP 2502	Information Profile for CORBA
	NTCIP Center-to-Field Standards Group	
	NTCIP 1101	Simple Transportation Management Framework (STMF)
	NTCIP 1102	Octet Encoding Rules (OER) Base Protocol
	NTCIP 1103	Transportation Management Protocol (TMP)
	NTCIP 2101	Point to Multi-Point Protocol Using RS-232 Subnetwork Profile
	NTCIP 2102	Point to Multi-Point Protocol Using FSK Modem

SDO	Standard ID	Standard Title
		Subnetwork Profile
	NTCIP 2103	Point-to-Point Protocol Over RS 232 Subnetwork Profile
	NTCIP 2104	Ethernet Subnetwork Profile
	NTCIP 2201	Transportation Transport Profile
	NTCIP 2202	Internet (TCP/IP and UDP/IP) Transport Profile
	NTCIP 2301	Simple Transportation Management Framework (STMF) Application Profile
	NTCIP 2302	Trivial File Transfer Protocol (TFTP) Application Profile
	NTCIP 2303	File Transfer Protocol (FTP) Application Profile
	NTCIP 1201	Global Object Definitions
	NTCIP 1202	Object Definitions for Actuated Traffic Signal Controller Units
	NTCIP 1203	Object Definitions for Dynamic Message Signs (DMS)
	NTCIP 1204	Environmental Sensor Stations (ESS) Interface Standard
	NTCIP 1205	Object Definitions for Closed Circuit Television (CCTV) Camera Control
	NTCIP 1206	Object Definitions for Data Collection and Monitoring (DCM) Devices
	NTCIP 1207	Object Definitions for Ramp Meter Controller (RMC) Objects
	NTCIP 1208	Object Definitions for Closed Circuit Television (CCTV) Switching
	NTCIP 1209	Data Element Definitions for Transportation Sensor Systems (TSS)
	NTCIP 1210	Field Management Stations – Part 1: Object Definitions for Signal Systems Masters
	NTCIP 1211	Object Definitions for Signal Control and Prioritization
	NTCIP 1401	TCIP Common Public Transportation (CPT) Objects
	NTCIP 1402	TCIP Incident Management (IM) Objects
	NTCIP 1403	TCIP Passenger Information (PI) Objects
	NTCIP 1404	TCIP Scheduling/Runcutting (SCH) Objects
	NTCIP 1405	TCIP Spatial Representation (SP) Objects
	NTCIP 1406	TCIP Onboard (OB) Objects
	NTCIP 1407	TCIP Control Center (CC) Objects
	NTCIP 1408	TCIP Fare Collection (FC) Business Area Objects
ANSI	ANSI TS285	Commercial Vehicle Safety and Credentials Information Exchange
	ANSI TS286	Commercial Vehicle Credentials
ASTM		Dedicated Short Range Communication at 915 MHz Standards Group
	ASTM E2158-01	Standard Specification for Dedicated Short Range Communication (DSRC) Physical Layer using Microwave in the 902-928 MHz Band
	ASTM PS 105-99	Standard Provisional Specification for Dedicated Short Range Communication (DSRC) Data link Layer
	ASTM E2259-xx	Standard Specification for Metadata to Support Archived Data Management Systems

SDO	Standard ID	Standard Title
	ASTM E2259-yy	Standard Specification for Archiving ITS Generated Travel Monitoring Data
IEEE	Incident Management Standards Group	
	IEEE P1512.1-2003	Standard for Traffic Incident Management Message Sets for Use by EMCs
	IEEE P1512.2-2004	Standard for Public Safety IMMS for use by EMCs
	IEEE P1512.3-2002	Standard for Hazardous Material IMMS
	IEEE P1512-2000	Standard for Common Incident Management Message Sets (IMMS) for use by EMCs
	IEEE P1512.4	Standard for Common Traffic Incident Management Message Sets for Use in Entities External to Centers
	IEEE 1570-2002	Standard for Interface Between the Rail subsystem and the Highway Subsystem at a Highway Rail Intersection
IEEE Std 1455-1999	Standard for Message Sets for Vehicle/Roadside Communications	
ITE	ITE TM 1.03	Standard for Functional Level Traffic Management Data Dictionary (TMDD)
	ITE TM 2.01	Message Sets for External TMC Communication (MS/ETMCC)
SAE	Advanced Traveler Information System (ATIS) Bandwidth Limited Standards Group	
	SAE J2266	Location Referencing Message Specification (LRMS)
	SAE J2354	Message Set for Advanced Traveler Information System (ATIS)
	SAE J2369	Standard for ATIS Message Sets Delivered Over Reduced Bandwidth Media
	SAE J2540	Messages for Handling Strings and Look-Up Tables in ATIS Standards
	SAE J2540-1	RDS (Radio Data System) Phrase Lists
	SAE J2540-2	ITIS (International Traveler Information Systems) Phrase Lists
	SAE J2540-3	National Names Phrase List
	Advanced Traveler Information System (ATIS) General Use Standards Group	
	SAE J2266	Location Referencing Message Specification (LRMS)
	SAE J2354	Message Set for Advanced Traveler Information System (ATIS)
	SAE J2540	Messages for Handling Strings and Look-Up Tables in ATIS Standards
	SAE J2540-1	RDS (Radio Data System) Phrase Lists
	SAE J2540-2	ITIS (International Traveler Information Systems) Phrase Lists
	SAE J2540-3	National Names Phrase List
	On-board Vehicle Mayday Standards Group	
	SAE J2266	Location Referencing Message Specification (LRMS)
	SAE J2313	On-Board Land Vehicle Mayday Reporting Interface

SDO	Standard ID	Standard Title
	SAE J2354	Message Set for Advanced Traveler Information System (ATIS)
	SAE J2540	Messages for Handling Strings and Look-Up Tables in ATIS Standards
	SAE J2540-1	RDS (Radio Data System) Phrase Lists
	SAE J2540-2	ITIS (International Traveler Information Systems) Phrase Lists
	SAE J2540-3	National Names Phrase List
SAE/IEEE	Dedicated Short Range Communication at 5.9 GHz Standards Group	
	IEEE 1609.1	Resource Manager for DSRC 5.9 GHz
	IEEE 1609.2	Application Services (Layers 6,7) for DSRC 5.9 GHz
	IEEE 1609.3	Communications Services (Layers 4,5) for DSRC 5.9 GHz (Future Standard)
	IEEE 1609.4	Medium Access Control (MAC) Extension & the MAC Extensino Management Entity for DSRC 5.9 GHz
	IEEE 802.11	Standard Specification for Telecommunications and Information Exchange Between Roadside and Vehicle Systems – 5 GHz Band Dedicated Short Range Communications (DSRC) Medium Access Control (MAC) and Physical Layer (PHY) Specifications
	IEEE 802.2	Logical Link (Layer 2) for DSRC 5.9 GHz
	ISO 21210	Networking Services (Layer 3) for DSRC 5.9 GHz

Regular updates of SDO activities will help ensure that the latest standards are utilized. The SDOs listed above include:

- American Association of State Highway and Transportation Officials (AASHTO)
- American National Standards Institute (ANSI)
- American Society for Testing and Materials (ASTM)
- Electronic Industries Alliance/Consumer Electronic Association (EIA/CEA)
- Institute of Electrical and Electronics Engineers (IEEE)
- Institute of Transportation Engineers (ITE)
- Society of Automotive Engineers (SAE)

8.2. Reference to the detailed standards information on the Web Site

The previous section provides a general discussion of the standards environment in the region. However the architecture does contain a far more detailed standards view, one that maps applicable standards to the individual information flow that goes from one element to another. This detailed information is contained in the hyperlinked web site and can be accessed in two different ways. Each element description page has a set of links that describe the information flowing to and from the element to other elements of the architecture. Selecting any of these interface links brings the user an interface page. For example, the interface between the IDOT District 1 TSC and the CTA Control Center is shown in Figure 3. One of the information flows in the diagram, ‘transit system data,’ is defined at the bottom of the page. Standards information for this flow can be accessed on the web site by selecting the Standards button. The standards

web page has a list of standards organized by SDO, with each of the standards title a hot link to a detail page. Figure 3 shows an example of a portion of the web page the user sees when they select the standard Object Definitions for Dynamic Message Signs.

Figure 3: Example of Interface

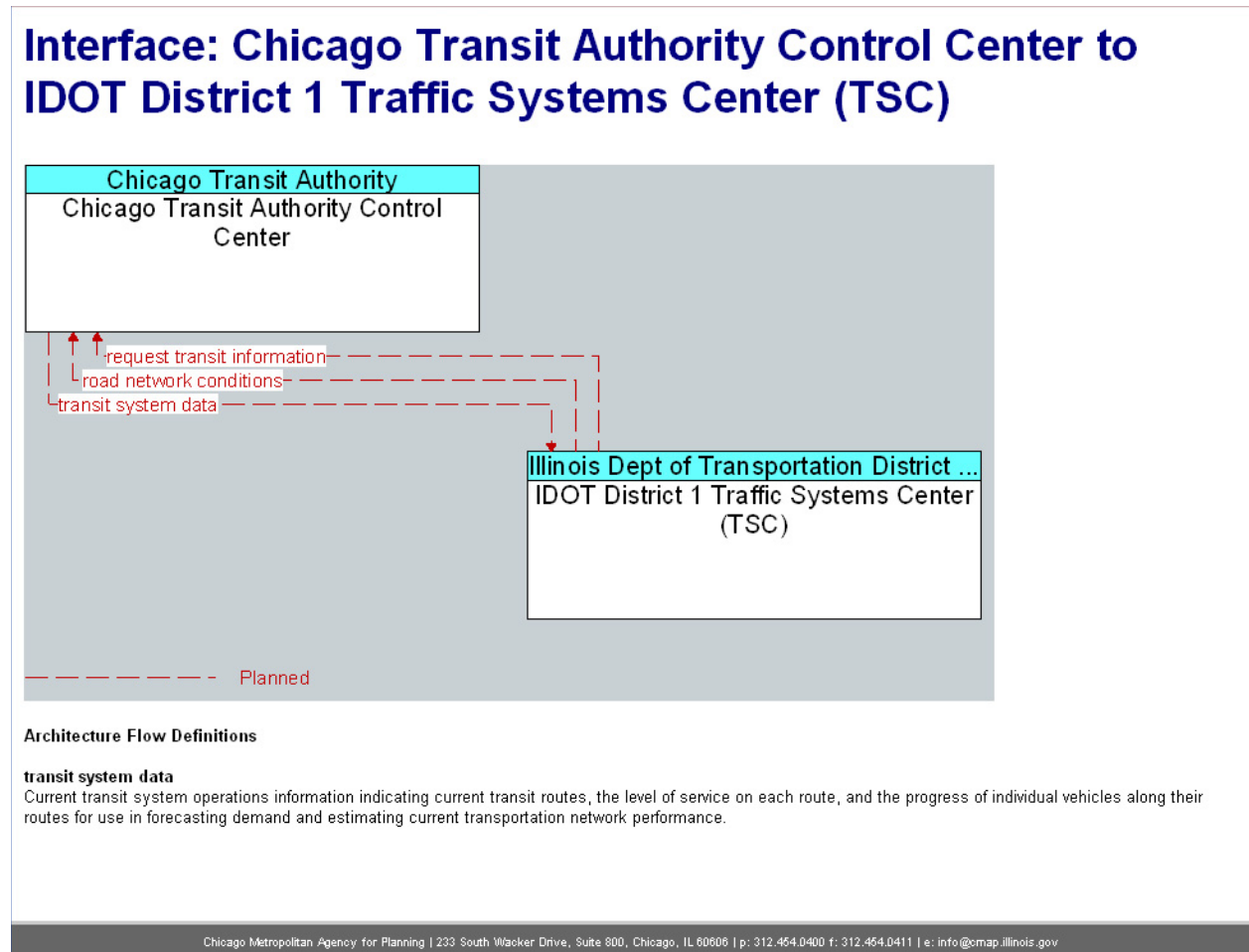


Figure 4: Example of Standards Mapping

NTCIP 1203: Object Definitions for Dynamic Message Signs (DMS)		
Source Element	Destination Element	Flow
City of Chicago Department of Aviation Field Equipment	Satellite TMC OHare Airport	roadway information system status
City of Chicago DOT Traveler Information Kiosks	City of Chicago TMC	roadway information system status
City of Chicago OEMC Field Equipment	City of Chicago TMC	roadway information system status
City of Chicago Skyway Field Equipment	City of Chicago Skyway Operations	roadway information system status
City of Chicago Skyway Operations	City of Chicago Skyway Field Equipment	roadway information system data
City of Chicago TMC	City of Chicago DOT Traveler Information Kiosks	roadway information system data
	City of Chicago OEMC Field Equipment	roadway information system data
Cook County Highway Department Field Equipment	Cook County TMC	roadway information system status
Cook County TMC	Cook County Highway Department Field Equipment	roadway information system data
DuPage County Field Equipment	DuPage County TMC	roadway information system status
DuPage County TMC	DuPage County Field Equipment	roadway information system data
Grundy County Field Equipment	Grundy County TMC	roadway information system status
Grundy County TMC	Grundy County Field Equipment	roadway information system data
IDOT District 1 Bureau of Arterial Operations	IDOT District 1 Bureau of Arterial Operations Field Equipment	roadway information system data
IDOT District 1 Bureau of Arterial Operations Field Equipment	IDOT District 1 Bureau of Arterial Operations	roadway information system status
IDOT District 1 ComCenter	IDOT District 1 ComCenter Field Equipment	roadway information system data
	IDOT District 1 Traffic Systems Center Field Equipment	roadway information system data
IDOT District 1 ComCenter Field Equipment	IDOT District 1 ComCenter	roadway information system status

9. Regional Projects

The identification of regional projects involved several main steps. First, the information gathered in existing documents and during outreach meetings was utilized to establish a baseline for projects. Several documents were referenced for this effort:

1. Northeastern Illinois ITS Deployment Plan Update – Final Report including regional ITS project list, CATS, July 2005
2. Northeastern Illinois ITS Deployment Plan Update – Addendum to Final Report, CATS, July 2005
3. GCM Program Plan Update (July 2001)
4. GCM Program Plan Update Supplement/Executive Summary (July 2001)
5. Cicero Avenue Smart Corridor Implementation Plan
6. RTA Regional Transit ITS Plan (RTIP)
7. GCM Corridor ITS Architecture
8. Chicago Traffic Management Center Project Development Report (Draft Report), OEMC, July 2005

9. Will County Traffic Management Center Feasibility Study & Conceptual Design, WCHD, July 2006
10. Statewide ITS Architecture Turbo File, IDOT, September 2006
11. DuPage County Subregional ITS Architecture Report, DCDOT, February 2007
12. DuPage County Subregional ITS Architecture Turbo File, DCDOT, February 2007
13. Chicago Metropolitan Urban Partnership Application (Draft), IDOT, April 2007
14. Various Regional ITS Stakeholder interviews & interview notes with IDOT District 1 Traffic, Illinois Tollway, RTA, Pace, Metra, Edwards & Kelcey

The review of the existing documentation resulted in the identification of a number of projects, most from the Northeastern Illinois ITS Deployment Plan Update. In developing the inventory of projects recommended in existing documentation, those that have the greatest impact on the region were included. General descriptions of a number of project concepts were also documented, but were not included in regional architecture.

The interfaces of the elements in the Base Architecture were compared with the scopes of the projects from the previous section to estimate which interfaces would be implemented by one or more of the projects. The comparison identified architecture interfaces that would potentially be excluded from any of the baseline project scopes. These represent the parts of the architecture that would need to be addressed by additional project concepts.

There are many different ways to describe how architecture interfaces are grouped into various project concepts. Projects and their scopes are typically developed based on the priorities of the leading agency and funding. The sequence of projects is also dictated by factors such as these. The sequence of projects is influenced by the relationship to other projects (e.g., building upon elements of an earlier project), although project scopes can be flexible to accommodate variations in project sequence. For example, if an agency is initiating the construction of a facility that is to interface with a planned element, the facility can include receiving ports for the planned element to be used when it is implemented at a later date.

Although there can be variations in project scopes and sequencing, general guidance can be provided based on project types and the interrelationships among some projects. Where a project can utilize the functions provided by another project, an effort should be made to implement the projects in the corresponding order. Due to the strong emphasis on safety and security, projects that involve coordinated emergency response could be initiated early. Likewise, projects involving commercial vehicle operations (particularly hazardous materials) could also be given early consideration. A broad, second level of sequence could include projects involving traffic management and traveler information dissemination. Finally, a third sequence level could include projects related to data archiving or independent operational improvements. The architecture interfaces were categorized into their subsystem categories as illustrated in Appendix B. Table 8 provides a list of key projects identified in existing documentation, most from the Northeastern Illinois ITS Deployment Plan Update along with additional key project concepts. The list is not comprehensive and does not represent a unique, linear sequence because variations and concurrent implementation of projects is possible and likely in many cases. However, logical sequences among subgroups are provided as noted. Many of the

projects are related to the GCM Corridor because the involvement of northeastern Illinois agencies in GCM Corridor activities.

Additional projects, project prioritization, project sequencing, project cost estimates and project implementation schedule will continue to be identified as part of subsequent updates. Appendix B is a useful tool for stakeholders to identify future regional ITS projects.

Table 8: Project List

ID*	Project Name	Stakeholder(s)	Project Description
-	Illinois Gateway	WisDOT, IDOT, INDOT	GCM Corridor Architecture - Illinois Gateway and NE Illinois
-	Northeastern Illinois Regional Data Archive and Management System	CMAP, City of Chicago, IDOT, ISTHA	The concept is to create one regional system/database that archives all traffic performance data for the entire Northeastern Region. While individual systems would be responsible for ultimately archiving greater level of detail on their systems, connections, and standards will be adopted so that the regional archive could access the more detailed data for smaller individual efforts.
-	Transit Management	RTA	
2	Chicago Traffic Management Center (TMC)	City of Chicago	The Chicago TMC is one of the largest and most significant ITS projects being undertaken by CDOT (jointly with City of Chicago Office of Emergency Management and Communications). CDOT currently has an operational "mini-TMC" with the Traffic Control room at 30 N. LaSalle. It will be expanded in 2005 and will serve as the TMC until the permanent location is established.
4	Cicero Ave Smart Corridor ATMS	City of Chicago, IDOT, RTA	This project has been underway for some time with currently deployed systems including 19 signals, 7 CCTVs, 2 DMSs and system detectors. It also includes the development of a Midway Airport Satellite Traffic Management Center. Future enhancements relate to traffic adaptive control on the signals and possibly other roadside device enhancements.
5	Cicero Ave Smart Corridor ATMS	City of Chicago	This project provides upgrades to several traveler information systems along the smart corridor. Specifically the project will develop HAR upgrades to provide information on closures of highway rail intersections, Enhanced Traveler Information Kiosks, and Dynamic Message Signs.
6	CDOT Smart Corridors: Pulaski Road	City of Chicago, IDOT	This project involves multiple "smart corridors" which utilize arterial traffic management with fiber-interconnected signals, CCTVs vehicle detector stations and/or VMS. These smart corridors are selected based upon a priority model developed by CDOT. The exact capabilities implemented may vary by location, which will mean that some subset of the elements and interfaces will actually be implemented.
9	CDOT Red-light Camera Enforcement Program	City of Chicago, Violation Enforcement Processing Service	Approximately 5 percent (100-200) of traffic signals will be monitored by redlight running cameras with automated process to ticket violators.

ID*	Project Name	Stakeholder(s)	Project Description
11	City of Chicago Interconnects	City of Chicago, Cook County Highway Dept., IDOT, Municipalities/ Townships	This project provides coordination of signals on city of Chicago arterials. The project may include signal timing across municipal and county boundaries.
13	Chicago Skyway Travel Monitoring and Integration with IDOT Gateway	City of Chicago, Skyway Concession Company, IDOT	This project provides network surveillance on the Chicago Skyway by placing RTMS devices at 1/2 mile intervals along the Skyway. The information would be used to generate real-time travel time data that would be sent to the Chicago TMC and integrated in the IDOT/GCM regional expressway/tollway travel time maps. While this project is currently listed in the CDOT section, the Skyway has been leased by Chicago to a private consortium who began operating it in 2005.
15	Chicago Truck Route Advisory System	City of Chicago	This project will provide an interactive web page in which truckers would enter an origin and destination plus characteristics of their truck (height, weight, length), and the web site would provide them with information regarding viaduct clearances, construction, truck route restrictions, weight limits and special permits where needed (e.g., Lake Shore Dr.). Eventually, more dynamic aspects such as street closures and special events would be added.
18	Parking Information Projects	Chicago Park District, City of Chicago, IDOT, MPEA, Private ISPs, RTA	This project will provide real-time parking and traveler information for Navy-pier and Grant Park/ Millennium Park.
19	Cook County Traffic Management Center	Cook County Highway Dept.	This project would develop a Cook County TMC capability. The center may be located in Schaumburg, initially covering northern Cook County. Alternatively the center capability could be collocated with CDOT or IDOT TMC rather than a stand alone facility.
25	DuPage Emergency Management and Signal Preemption	DuPage County DOT, IDOT, Municipalities/ Townships	This project will plan, implement, operate, maintain and monitor coordinated signal preemption system across county for state, county and municipal systems. It may consider an interface with Glendale Heights EOC.
26	DuPage County Paratransit Coordination	DuPage County DOT, Metra, Pace, Municipalities/ Townships	This project will look at implementing centralized coordination of local paratransit services as well as provide coordination with public safety and other transit organizations.
28	Kane County Traffic Management Center	Kane County DOT	This project will implement basic traffic management capabilities for Kane County.
31	Lake County PASSAGE	Lake County DOT, ISTHA, Lake County EMA, Lake County Sheriff, Municipalities/ Townships	This project will continue the system implementation of the Lake County TMC. The initial phase will be 140+ signals. Two more phases are planned with automated diversion routes, a link to County Sheriff CAD, a link to the Gateway, and links to municipal TMCs, municipal public safety and County EOC.
37	Will County Traffic Management Center	Will County Dept. of Highways	This project involves the development of traffic management capabilities for the Will County. One consideration for this TMC is the collocation traffic management and emergency operations centers.
41	Integration of Centers	City of Chicago, IDOT, ISP	This project will connect regional police districts (Ill State Police and Chicago) to Gateway Traveler Information System in order to share incident and other information.
42	Interagency Operations and Signal Coordination	City of Chicago, Cook County Highway Dept., DuPage County DOT, IDOT, INDOT, Kane County DOT, Lake	This project will consider the coordination of signals on Strategic Regional Arterials throughout NE Illinois. This includes coordination from IDOT District 1 Bureau of Traffic Signal Unit to other traffic management elements in the architecture.

ID*	Project Name	Stakeholder(s)	Project Description
		County DOT, McHenry County DOT, Dept. of Highways, Municipalities/ Townships	
46	Surveillance of Critical Bridge Infrastructure	IDOT	Installation of lighting, fencing and CCTV on 16 bridges in northeast Illinois.
48	CCTV Surveillance Sharing	IDOT	This project considers sharing of video information among traffic management elements in the region. Several ways of implementing this capability are being considered. These include use of the internet with password protected access to images and control of the cameras. The agencies involved could include both public and private agencies through some sort of partnership.
49	IDOT CCTV Systems, Expressway	IDOT	This project involves augmenting the CCTV systems IDOT has deployed along the expressways.
50	Integrated Expressway/Arterial Corridors	City of Chicago, IDOT,	This project considers coordination between expressway and arterial systems. Plans for a Pilot Project would involve a tie-in of Eisenhower Expressway to Chicago DOT signals by having ramp queue detectors, both for on- ramps and off-ramps. Ramp terminal signal control would then be modified to either hold entry to I-290 (on-ramp congestion) or clear the off-ramp (spillback onto I-290). The implementation might link CDOT signals with IDOT Traffic Systems Center, or whether have local links to ramp meters only.
53	Regionwide Emergency Traffic Operations Systems (ETOS) Upgrade	IDOT	The project will be the follow-on to a pilot project that involved 6 ETP equipped vehicles (5 maintenance vehicles & 1 command vehicle) which has been recently completed. Purpose of the initial project was to get incident info to the Gateway. The follow-on project will likely involve both AVL and simplified MDT (keypad) to input basic incident info at the vehicle and send it to the Com Center and ETP dispatch on the private radio network.
56	Statewide 511 Service	IDOT, RTA	This project provides implementation of a statewide integrated traveler information system using a common three digit number 511. The project would include RTA and Gateway links.
59	Accident Database and Reporting System	IDOT	This project involves development of an accident or crash database for use by law enforcement and other incident response agencies to aid in incident response.
60	ITS Applications for WorkZones	IDOT	This project is an IDOT initiative for deploying various technologies like CCTVs, DMS etc. in workzone areas to improve traveler conditions , worker safety etc.
62	Mobile Technologies to Measure Travel Times Using Probe Vehicles	City of Chicago, IDOT, ISTHA, RTA	Combined initiative of IDOT, City of Chicago, ISTHA and RTA. Would involve using cell phone GPS technologies to measure real-time travel conditions on roadway network
64	Railroad Grade Crossing Delay - Traveler Information System	City of Chicago, IDOT, Lake County DOT, Rail Freight Operators, RTA	This project would develop a Traveler Information System to provide travelers with information regarding delays due to trains.
66	Traveler Information Archive	IDOT	This project will develop an electronic archive for the travel information collected by GCM corridor.
69	ISTHA TIMS Enhancement	ISTHA	This project will expand the software capabilities of the TIMS, including enhanced connectivity to the Gateway and other centers in the region.
72	ISTHA Systemwide Open Road Tolling (ORT)	ISTHA	This project covers upgrades to the Tollway Toll Plazas for capabilities such as mixed use truck/car lane enhancements at all toll booths and use of "open-road" tolling (no

ID*	Project Name	Stakeholder(s)	Project Description
			stopping required).
75	Transit Hub:APTS	Media Outlets, CTA, City of Chicago Dept. of Aviation, IDOT, Independent School Districts, Metra, Municipalities/ Townships, Pace, Private Bus Agencies, Private ISPs, Private Taxi Companies, Public and Non-Profit Paratransit Agencies, RTA	This project involves design and development of the Illinois Transit Hub to better manage transit operations. This project heading is used to cover three separate efforts: -Deployment of the Illinois Transit Hub itself -Transfer Connection Protection-- This effort involves real-time monitoring of CTA, PACE, and Metra operations to protect against missed transfers. -Regionwide Automatic Fare Collection System—This effort involves planning, design, and deployment of a regional transit fare collection system. The latter two efforts represent uses of the Transit Hub to share information between transit centers in the region.
77	Illinois Transit Hub	CTA, IDOT, Metra, Pace, RTA	This project entry covers the transit traveler information aspects of the Transit Hub. The project covers dissemination of transit information to Gateway and service boards. Includes development of a Illinois Transit Hub website, and an interface to the RTA Travel Information Center.
80	Automatic Train Supervision (ATS) System	CTA	This project provides an updated CTA train tracking system made up of a) full communication of signal indications to CTA control center, b) Centralized Traffic Control (CTC) and c) new software in CTA control enter.
81	Train Passenger Information System	CTA	This project provides LED display of train arrivals at all stations on a countdown clock.
94	Pace Intelligent Bus System	Pace, RTA	This project is the continuation of an on-going effort to deploy an integrated bus management system incorporating automatic vehicle location and fleet management technologies.
97	Pace Transit Operations Decision Support System	Pace	This project will create a system that will quickly develop new bus routes when an incident impacts an existing route.
100	Regionwide Transit Signal Priority Deployment	City of Chicago, Cook County Highway Dept., DuPage County DOT, IDOT, Kane County DOT, Lake County DOT, McHenry County DOT, Pace, Will County Dept. of Highways	This project will provide a system that will give priority to Pace buses at traffic signals in the region.

* project identification number from the Northeastern Illinois ITS Deployment Plan Update. For a complete list of regional ITS projects, refer to the ITS Deployment Plan Update.

10. Agreements

There are several types of arrangements associated with the interfaces included with the projects discussed previously. Data exchanges between systems require agreements on the transmission protocol and data formats to ensure compatibility. Coordinating field device operations owned by different agencies requires defined procedures for submitting message requests and rules governing when such requests can be honored. Such coordination can be done with informal arrangements such as a Memorandum of Understanding (MOU). Sharing control of field devices operated by different agencies involves more liability issues, which requires more formal agreements. Coordinated incident response may also require formal agreements, but also requires group training of personnel from various agencies. While all interfaces involve

agreements for data compatibility, agreements for procedure and operation as well as training can also be critical elements to optimizing the benefits of the architecture.

The practice and preference of agencies in northeastern Illinois has been to cooperate through simplified agreements such as letters and MOUs. Through a history of good working relationships, agencies have developed trust for one another. This has allowed them to proceed with jointly sponsored projects using simplified agreements that document the level of funding for each agency.

The following are a list of potential agreements that could be needed for the region.

- Endorsement of Coordinated Incident Management Handbook Practices
- Multi-State Incident Response Teams in State Border Regions
- Endorsement of Accident Database and Reporting System
- Multi-State Virtual Weigh Stations
- Multi-State "One-Stop" Shopping for Commercial Vehicle Interstate Credentials
- Multi-Agency Interactive Transit Information Kiosks
- Multi-Jurisdictional Paratransit Coordination
- Multi-Agency Communication Infrastructure Sharing
- Inter-Agency Traffic Signal Coordination
- Multi-Agency Limited Liability Agreements
- Multi-State Agreement for Coordinated DMS Message Placement
- Interstate Electronic Toll Collection Interoperability
- Multi-Agency Radio Communication Integration
- Multi-State 511 Traveler Information System
- Inter-Agency Jurisdictional Construction and Maintenance Coordination
- Public-Private Partnership for Video Images
- Data Archiving Systems
- Regional ITS Architecture Maintenance

11. Using the Regional ITS Architecture

Once a regional ITS architecture has been created, it's important that it be used as a key reference in the transportation planning process. This will ensure all proposed ITS projects are consistent with the regional ITS architecture and additional integration opportunities are considered, leading to more efficient implementations.

The primary planning document from an ITS standpoint is the Strategic Early Deployment Plan (SEDP), which was created in the 1997-1999 timeframe, and its 2005 update. The SEDP provides a blueprint for the integrated deployment of Intelligent Transportation Systems (ITS) in northeastern Illinois. The SEDP has been used to support the integration of the numerous ITS actions underway and to insure that future projects contribute to the effective use of transportation technologies. The SEDP included a list of recommended projects as a Deployment Action Plan and identified the funding needed to implement this plan. As a part of this original

plan, the need to create a Northeastern Illinois Regional ITS Architecture was identified. A regional ITS architecture would provide in some level of detail the ITS systems and integration opportunities in the region.

The update of the SEDP serves as a key input to the primary planning documents of the region: the Regional Comprehensive Plan (R Comprehensive P) and the Transportation Improvement Program (TIP). The Regional Comprehensive Plan is the long-range guide for major investments in northeastern Illinois' multimodal ground transportation system. The RTP recommends major projects, systems, policies and strategies designed to maintain the existing transportation system and serve the region's future travel needs.

The regional ITS architecture should also be considered for support in ITS project development cycle. This begins with project definition, followed by procurement, leading to implementation. Information in the regional ITS architecture can assist in all three of these areas of project development.

Project Definition may occur at several levels of detail. Early in the planning process a project may be defined only in terms of the transportation services it will provide, or by the major system pieces it contains. At some point prior to the beginning of implementation the details of the project must be developed. This could include further system definition and interface definition including exactly what systems or parts of systems will make up the project, what interconnections the project entails, and what information needs to flow across the system interconnections. Requirements definition may go through similar levels of detail, starting with very high level description of project functions and moving toward system specifications. By identifying the portions of the regional ITS architecture that define the project, the regional ITS architecture outputs can be used to create key aspects of the project definition.

The areas that a regional ITS architecture can assist in project definition are:

- The identification of agency roles and responsibilities (including any inter-agency cooperation) can come from the operational concept developed as part of the regional ITS architecture. This operational concept can either serve as a starting point for a more detailed definition, or possibly provide all the needed information.
- Requirements definition can be completely or partly defined by using the regional ITS architecture functional requirements applicable to the project.
- The regional ITS architecture includes a map to ITS standards and the project mapping to the regional ITS architecture can extract the applicable ITS standards for the project.

Once a project is defined, and funding for it is committed, the implementation process can commence with the generation of a Request For Proposal (RFP), which is the common governmental practice for initiating a contract with the private sector to implement the project. Once a contract is in place, project implementation begins and moves through design, development, integration, and testing.

The regional ITS architecture, and the products produced during its development, can support this RFP generation. First the project definition described above forms the basis for what is being procured. Mapping the project to the regional ITS architecture allows bidders to have a clear understanding of the scope of the project and of the interfaces that need to be developed. The functional requirements created as part of the regional ITS architecture can be used to describe the functional requirements for the project. In addition a subset of the ITS Standards identified as part of the regional ITS architecture development can be specified in the RFP. Because ITS projects involve systems and their interconnections, it is very important to follow a system engineering approach to designing and implementing the project. While the exact process followed is at the discretion of the local agency, the ITS Architecture and Standards Rule/Policy lay out a set of required system engineering analyses for ITS projects funded through the highway trust fund.

The required system engineering analysis steps are:

- Identification of portions of the regional ITS architecture being implemented (or if a regional ITS architecture does not exist, the applicable portions of the *National ITS Architecture*);
- Identification of participating agencies' roles and responsibilities;
- Requirements definitions;
- Analysis of alternative system configurations and technology options to meet requirements;
- Procurement options;
- Identification of applicable ITS standards and testing procedures; and
- Procedures and resources necessary for operations and management of the system.

The regional ITS architecture can provide inputs to a number of these steps as shown in Table 9:

Table 9: System Engineering Requirements supported by Regional ITS Architecture

System Engineering Requirements	Regional ITS Architecture output
Identification of portions of the regional ITS architecture being implemented	Mapping project to the elements and interfaces of the regional ITS architecture
Identification of participating agencies' roles and responsibilities	Use Operational Concept as a starting point
Requirements definitions	Use Functional Requirements as a starting point.
Identification of applicable ITS standards and testing procedures	Use regional architecture standards outputs as a starting point for the standards definition.

In summary, the regional ITS architecture represents a detailed plan for the evolution of the ITS systems in the region and can be used to support regional transportation planning efforts and project development efforts.

12. Maintaining the Regional ITS Architecture

The Northeastern Illinois Regional ITS architecture is not a static set of outputs. It must change as plans change, ITS projects are implemented, and the ITS needs and services evolve in the region. This section describes a proposed plan for the maintenance of the architecture. The plan covers the following three key areas:

- Who will maintain the architecture?
- What will be maintained?
- How it will be maintained (i.e. what configuration control process will be used)?

The regional ITS architecture is created as a consensus view of what ITS systems the stakeholders in the region have currently implemented and what systems they plan to implement in the future. The regional ITS architecture will need to be updated to reflect changes resulting from project implementation or resulting from the planning process itself.

- **Changes for Project Definition.** When actually defined, a project may add, subtract or modify elements, interfaces, or information flows from the regional ITS architecture. Because the regional ITS architecture is meant to describe the current (as well as future) regional implementation of ITS, it must be updated to correctly reflect how the developed projects integrate into the region.
- **Changes for Project Addition/Deletion.** Occasionally a project will be added or deleted through the planning process and some aspects of the regional ITS architecture that are associated with the project may be expanded, changed or removed.
- **Changes in Project Priority.** Due to funding constraints, or other considerations, the planned project sequencing may change. Delaying a project may have a ripple effect on other projects that depend on it. Raising the priority for a project's implementation may impact the priority of other projects that are dependent upon it.
- **Changes in Regional Needs.** Transportation planning is done to address regional needs. Over time these needs can change and the corresponding aspects of the regional ITS architecture that addresses these needs may need to be updated.

In addition, new stakeholders may come to the table and the regional ITS architecture should be updated to reflect their place in the regional view of ITS elements, interfaces, and information flows.

Finally, the National ITS Architecture may be expanded and updated from time to time to include new user services or better define how existing elements satisfy the user services. These changes should also be considered as the regional ITS architecture is updated. The National ITS Architecture may have expanded to include a user service that has been discussed in a region, but not been included in the regional ITS architecture, or been included in only a very cursory manner.

12.1. Maintenance Responsibility

Responsibility for maintenance of the Northeastern Illinois Regional ITS Architecture should lie with CMAP. This organization was responsible for the original development effort (in partnership with IDOT) and as the planning organization for the region, they will be one of the primary users of the architecture. While it is recommended that CMAP assume responsibility for maintenance, it is further recommended that a group of core stakeholders act as an “institutional framework” to review proposed changes to the architecture. The regional ITS architecture is a consensus framework for integrating ITS systems in the region. As it was a consensus driven product in its initial creation, so it should remain a consensus driven product as it is maintained. The logical institutional framework for Northeastern Illinois region is the Advanced Technology Task Force (either the entire task force or an architecture subgroup).

12.2. Architecture Baseline

Establishing an architecture baseline requires clear identification of the architecture products that will be maintained, including specific format and version information. For the Northeastern Illinois Regional ITS Architecture the following outputs are recommended as the architecture baseline:

- Architecture Document (this document)
- Turbo Architecture Database
- Regional ITS Architecture Web pages

Regarding the Architecture document, it is recommended that the source document, in Microsoft Word format, be held by CMAP, while a PDF version of the document be created for general distribution. Also that a version number and date be included inside the cover page.

Regarding the Turbo Architecture Database, it is recommended that CMAP maintain a zipped version of the final delivered Northeastern Illinois Regional ITS Architecture database. The name, date, and size of the database file inside the zipped file should be entered into an architecture log as version 1.0 of the architecture.

Regarding the web site, a CD-ROM version of the final web site should be maintained by CMAP. It is further recommended that the version number of the architecture be entered somewhere on the home page of the web site so that the version being viewed is immediately identifiable.

12.3. Configuration Control

Once the baseline is defined, the process for making changes to this baseline must be established. The change management process specifies how changes are identified, how often they will be made, and how the changes will be reviewed, implemented, and released.

How Changes are Identified

This involves two issues-

- who can identify a change to the architecture and
- how will the change request be documented.

For a region as large as Northeastern Illinois, the question of who can make change requests is an important one. If literally anyone can input requests the region runs the risk of being overrun by requests that will tax scarce resources to review and decide upon. On the other end of the spectrum, if too much formality or paperwork are added to the process then many valid or needed changes may go unexpressed. The recommendation is that only members of the ATTF be allowed to identify potential changes. This effectively means that any change suggested has the approval of a member of the task force. This has the added benefit of spreading the resources needed to generate or evaluate changes among the group.

As to how the change request should be documented—it is recommended that a simple change request form be created that contains at least the following information:

- Name of change
- Description of change
- Part of baseline affected (could be check boxes for document, database, web site, and not known)
- Rationale for change
- Originator name or agency
- Date of origination

This information will ultimately be added to a change database (recommended to be maintained by CMAP personnel) that will add the following additional fields of information:

- Change number (some unique identifier)
- Change disposition (accepted, rejected, deferred)
- Change type (minor or significant)
- Disposition comment
- Disposition date

How often Changes are Made

It is recommended that the first update to the architecture baseline be made approximately a year after completion of the initial version. Depending upon the amount of change requests submitted, this could be anything from a minor update to correct errors found to a more significant update to include changes in stakeholders, elements, and connections. Also some changes could be deferred until the next major update of the architecture. It is recommended that a major review and update of the architecture (including possibly additional stakeholder

meetings) be performed in the 6 months prior to the update of the Regional Comprehensive Plan. This will allow an updated version of the architecture to be used as the basis for the RCP update. Additional minor revisions of the baseline could be considered on a yearly basis.

Change Review, Implementation, and Release.

The general steps in the change review process are:

1. Define changes per the recommendations given above.
2. Assess the impact of the change. Someone needs to evaluate the change and determine what impact it has upon the architecture baseline. There are three options for who performs this evaluation
 - a. the person proposing the change (i.e. the member of the ATTF that brings it forward)
 - b. a staff member of CMAP (the agency responsible for architecture maintenance) or
 - c. a contractor through some architecture support contract.

Each of these options has positive and negative implications. The first option will work well for minor changes (e.g. changes in status, connections, or descriptions). However, it does require each submitting person to have sufficient knowledge of the architecture to suggest appropriate solutions. The second option requires the architecture knowledge to be available through CMAP personnel. Their long-term availability to perform the work is a possible risk. The third implies contracting for the necessary expertise, so has the negative of additional cost associated with it.

3. Provide a recommendation to the Change Control Group. For proper change control some group should be assigned responsibility for reviewing and approving changes to the baseline. The recommendation is that a subgroup of the ATTF be appointed for this purpose. This Change Control Group (sometimes referred to as a Configuration Control Board) should be lead by the individual responsible for maintaining the architecture (or by one of the individuals if it is a group activity). The job of the Group is to decide what changes go into the architecture baseline. This could be done through periodic meetings (say quarterly), through electronic correspondence, or a combination of both. A recommendation is that minor changes be handled through monthly email distribution and approval, while major changes or areas of disagreement be handled at the periodic face to face meetings. It is important to maintain the consensus nature of the architecture by having a group of core stakeholders agree on changes.
4. The Change Control Group makes a decision. Either it accepts the change, rejects it, or asks for additional evaluation.
5. The decision is implemented. If the decision is to accept the change, then the appropriate portions of the architecture baseline are updated (per the schedule discussed above) and an updated architecture baseline is defined.

The time required to perform this configuration control process will be a direct function of the number of changes suggested to the architecture, which will be driven by how much the architecture is being used. It is suggested that the process be reviewed within the first year and fine-tuned to most appropriately address the level of change that has occurred.

13. References

The following documents and databases were used in the development of the Northeastern Illinois Regional ITS Architecture and its documented outputs.

1. *Chicago Cicero Avenue Smart Corridor: Existing Conditions, Committed Improvements and Stakeholder Perspectives, Working Paper #1*, City of Chicago, December 1, 1999.
2. *Chicago Cicero Avenue Smart Corridor: Functional Requirements, System Architecture and Conceptual Design, Working Paper #2*, City of Chicago, February 18, 2000.
3. *Chicago Cicero Avenue Smart Corridor: Implementation Plan, Working Paper #3*, City of Chicago, December 22, 2000.
4. *Chicago Cicero Avenue Smart Corridor: ITS Architecture Turbo Database*, City of Chicago, March 2001.
5. *Chicago Traffic Management Center Preliminary Design Study: ITS Architecture Turbo Database, Draft*, City of Chicago, March 2002.
6. *Chicago Traffic Management Center Preliminary Design Study: Technical Memorandum #2, Functional Requirements and Systems Architecture, Draft*, City of Chicago, June 2001.
7. *FHWA's Final Rule and FTA's Policy for Applying the National ITS Architecture at the Regional Level*, Publication No. FHWA-OP-02-003, US Department of Transportation, March 2002.
8. *Gateway Traveler Information System: Gateway Functional Requirements, Document #2-8140.02*, Gary-Chicago-Milwaukee ITS Priority Corridor May 23, 2000.
9. *Gateway Traveler Information System: System Architecture, Design Document #2-8210.03*, Gary-Chicago-Milwaukee ITS Priority Corridor, June 30, 2000.
10. *Gateway Traveler Information System: System Definition, Document #2-8120.00*, Gary-Chicago-Milwaukee ITS Priority Corridor, June 17, 1999.
11. *GCM Corridor ITS Architecture Turbo Database*, Gary-Chicago-Milwaukee ITS Priority Corridor, September 2001.
12. *GCM Corridor ITS Architecture*, Final Report, Gary-Chicago-Milwaukee ITS Priority Corridor, September 2001.
13. *GCM Corridor Program Plan Update*, Gary-Chicago-Milwaukee ITS Priority Corridor July 2001.
14. *Illinois Tollway Traffic and Incident Management System (TIMS): Design Scope Update*, Illinois State Highway Toll Authority March 2001.
15. *Illinois Tollway Traffic and Incident Management System (TIMS): Initial Design Document*, Illinois State Highway Toll Authority, March 1999.
16. *Multi-Modal Traveler Information System: Gateway Traveler Information System, National ITS Architecture Compliance, Document #2-8081.00*, Gary-Chicago-Milwaukee ITS Priority Corridor, July 19, 1999.
17. *Northeastern Illinois Strategic Early Deployment Plan for Intelligent Transportation Systems (ITS), Final Report*, Chicago Area Transportation Study, June 1999.
18. *Northwestern Indiana Regional ITS Architecture Turbo Database*, Northwestern Indiana Regional Planning Commission,, August 2002.

19. *Regional ITS Architecture Guidance: Developing, Using and Maintaining an ITS Architecture for Your Region*, National ITS Architecture Team, US Department of Transportation, October 12, 2001.
20. *Regional Transportation Authority: Regional Transit ITS Architecture Database*, Regional Transportation Authority, August 31, 2001.
21. *Regional Transportation Authority: Regional Transit ITS Plan, Pre-Final Report*, Regional Transportation Authority, August 31, 2001.
22. *Tier 2 ITS Architecture Turbo Database*, Illinois Department of Transportation, March 2000.

Appendix A: Comments and Disposition

	Comments	Source	Completed	Disposition
1	Change element name Cook County Maintenance to Cook County Maintenance Bureau	Cook County Tech Meeting	7/30/2002	Done
2	Add element Cook County Construction Bureau (mapped to maintenance and construction Management Subsystem): stakeholder is Cook County Highway Dept.	Cook County Tech Meeting	7/30/2002	Done
3	Add element "Cook County Traffic Signal Systems"	Cook County Tech Meeting	8/17/2002	This is overtaken by a later comment that combines the existing county traffic signal systems with the future county TMCs.
4	Delete word "sub-regional from each of the County TMCs.	Cook County Tech Meeting	7/30/2002	Done
5	Change element McHenry County EMC to McHenry County EOC with stakeholder "McHenry County Emergency Services and Disaster Agency".	McHenry County (MC) Tech Mtg	7/30/2002	Done
6	Many towns have maintenance elements. Add a generic element called "Municipal Maintenance".	MC Tech Mtg	7/30/2002	Done
7	Add element "McHenry County Traffic Signal Systems", existing.	MC Tech Mtg	8/17/2002	This is overtaken by a later comment that combines the existing county traffic signal systems with the future county TMCs.
8	Add Element for "Coast Guard Dispatch" (mapped to Emergency Management Subsystem)	NW Indiana Tech Mtg	7/30/2002	Done
9	Add Element for Indiana Lake County EOC (or include in definition of County EOC).	NW Indiana Tech Mtg	7/30/2002	Done- added to description of Municipal EMCs element.
10	Change element name to Indiana State Police Dispatch, with definition to include District 11 and 13.	NW Indiana Tech Mtg	10/9/2002	Done- name is now Indiana State Police Dispatch with mention of the two districts in the description.

	Comments	Source	Completed	Disposition
11	Indiana Lake County EOC: stakeholder is Lake County Emergency Management Agency; interfaces with public safety elements in Illinois	NW Indiana Tech Mtg	7/30/2002	Added Lake County Indiana EOC to the description of Municipal EOCs, rather than creating a new element.
12	Add element "Indiana Toll Road Operations Center" and have it interface with Skyway and CDOT TMC.	NW Indiana Tech Mtg	7/30/2002	Done
13	Add element "Indiana DOT Arterial TMC", future.	NW Indiana	7/30/2002	Done
14	There are Indiana Traffic Signal Systems that coordinate with similar systems in Illinois. Add an element or handle as part of generic element.	NW Indiana Tech Mtg	8/17/2002	added to description of Municipal TMCs.
15	Two Indiana Transit Agencies connect with transit agencies in Illinois- NITCD and Hammond Dispatch. 'NITCD Operations Center interconnects with Metra specifically; Hammond Dispatch has an interface with PACE	NW Indiana Tech Mtg	7/30/2002	NICTD Element added. Hammond Dispatch put into Municipal Transit Operations element description
16	Consider separating the Airport TMCs for O'Hare and Midway as separate elements	Tier 3 Workshop	8/17/2002	Done, made two elements.
17	Make HOV Lane Management Market Package "Planned"	Tier 3 Workshop	8/17/2002	Done
18	Stakeholder should be Cook County Highway Department Maintenance Bureau	Tier 3 Workshop	10/9/2002	Believe the comment was really referring to the element name. Have added "Highway Department" into the names three elements relating to Maintenance, Construction, and Roadside Equipment.
19	Lake County has existing Traffic Signal Control System (with Events and Detector Log}	Tier 3 Workshop	8/17/2002	No change needed.
20	PD and FD may need a connection to Coast Guard	Tier 3 Workshop	9/6/2002	Done- added connections to Chicago 911, Cook County 911, Will County 911, and municipal public safety

	Comments	Source	Completed	Disposition
21	Add Fire Protection Districts as part of the description for the Municipal 911 Centers(R. Raub/NUPCS)	Tier 3 Workshop	8/17/2002	Done
22	Discussion about County Traffic Signal Systems. In all cases the current traffic signal systems will migrate to County TMCs at some time in the future. After discussion it was agreed to remove County Signal Systems (element 17 on the TM list) as a separate element and consider that each County TMC has an existing function (and connections) that represent the existing traffic signal systems.	Tier 3 Workshop	8/17/2002	County Traffic Signal Systems element deleted.
23	Consider adding a stakeholder/element for 'Utility Company Dispatch' (telephone, gas, cable, pipeline), which communicates with other centers about where work is being done and when	Tier 3 Workshop	8/17/2002	Added element and mapped to Emergency Mgmt.
24	Chicago Skyway Center is planned ("small center")	Tier 3 Workshop	10/9/2002	Per comment 237 this element name has been changed to "City of Chicago Skyway Operations"
25	Add Connections from #4 (Cook County TMC) to #2 (Chicago DOT TMC) , 5(DuPage County TMC),7 , 9,11 (ISTHA TMS), and 16 (Will County TMC).	Tier 3 Workshop	8/17/2002	Done
26	Add Connections from #5 (DuPage County TMC) to #4, 11	Tier 3 Workshop	8/17/2002	Done
27	Add Connect #13 (Lake County TMC) to #9 (IDOT TSC) and 11.	Tier 3 Workshop	8/17/2002	Done
28	Add Connect 7 (IDOT D1 Bureau of Traffic Signals) to all Counties and Municipalities	Tier 3 Workshop	8/17/2002	Done
29	Chicago DOT TMC needs a note to include today's existing signal systems.	Tier 3 Workshop	8/17/2002	Done- note added to description
20	Connect #2 (Chicago DOT TMC) to #7 (IDOT D1 Bureau of Traffic Signals)	Tier 3 Workshop	8/17/2002	Done
31	Add 11 to 13's (Lake County TMC) List	Tier 3 Workshop	8/17/2002	Covered in comment 27

	Comments	Source	Completed	Disposition
32	Define County Element as including Local Cities	Tier 3 Workshop	9/6/2002	Words already include this. No change needed
33	Show Indiana and Wisconsin Hubs and stop there. Include list of agencies that provide information via these hubs in their descriptions. And indicate which Architecture to go look up information in.	Tier 3 Workshop	8/17/2002	Done
34	#18 (Indiana DOT Arterial TMC) should just connect to 7	Tier 3 Workshop	8/17/2002	Done- additional connections added based on later technical meetings.
35	Add 4,7,8,9,11,15, to Wills County TMC(#16)	Tier 3 Workshop	8/17/2002	Done
36	Connect all County TMCs (except McHenry) to 9 (IDOT TSC).	Tier 3 Workshop	8/17/2002	Done
	Comments on TM to EM Interfaces for Incident Management			
37	Paramedic Dispatch name is confusing. Rename element: Regional Hospitals.	Tier 3 Workshop	8/17/2002	Done
38	Municipalities have a variety of EOCs some have none, some have many. Some have dedicated facilities, some just a conference room.	Tier 3 Workshop	8/22/2002	No Change required
39	Counties have permanent EOCs. Functionality: Gears up on a larger scale once something affects multiple jurisdictions, and requires coordination with others.	Tier 3 Workshop	8/22/2002	No Change required
40	Consider making six elements for 6 County EOCs. This may be an element that is involved in the future for security.	Tier 3 Workshop	8/17/2002	Done. Created additional EOCs

	Comments	Source	Completed	Disposition
41	After discussion here and later in the architecture flows section, it was decided to leave in as separate elements the multi-municipality PSAPs such as DUCOMM Dispatch, Northwest Central Emergency Dispatch Center, and RED Center. In addition at Southcom as an element. The rest of the municipality PSAPs will be covered by the general element Municipal Public Safety.	Tier 3 Workshop	8/17/2002	This comment was reversed by later comment 104, where all the individual municipal 911 centers were consolidated into the general Municipal Public Safety Dispatch, with the names of the individual ones, such as Southcom added to description.
42	Add a Private Towing element (mapped to Emergency Management).	Tier 3 Workshop	8/17/2002	Already in inventory, no change needed,
43	Suggest using alphabet for EM numbers on the Market Package slide of TM to EM to "make it less confusing,"	Tier 3 Workshop	8/22/2002	Done- use upper case letters for MCMs and lower case letters for EMs (in market package diagrams, does not impact database)
44	Change Illinois State Police District 15 Ops Center to "Ops Desk"	Tier 3 Workshop	8/17/2002	Done
	Comments on TM to MCM Interfaces for Incident Management			
45	Remove #10 MCM (Mayors Traffic Management Task Force)- it doesn't have separate connectivity- it is a group of people that meet periodically.	Tier 3 Workshop	8/17/2002	Done
46	Change Municipal Maintenance to Municipal/Township Maintenance	Tier 3 Workshop	8/17/2002	Done
47	There is also a Bureau of Traffic Arterials (Detour Approvals) in addition to Bureau of Traffic Lane Closure Approval. Their reps will review the website and make a recommendation as to how best to handle these. Perhaps merge all into a renamed element of Bureau of Traffic.	Tier 3 Workshop	10/9/2002	Inputs received from IDOT in later technical meetings clarified this issue, resulting in several element name changes.

	Comments	Source	Completed	Disposition
48	#18 (Indiana DOT Arterial TMC) has no connections to Illinois Maintenance elements.	Tier 3 Workshop	8/18/2002	Done
49	#1(Chicago Airport TMC) – add connection to 1(Cook County Maint Bureau and remove connection to Du Page County Maint.	Tier 3 Workshop	8/18/2002	Done. As part of other comments the Chicago Airport TMC broken into three elements for each of the major airports.
50	#2 Chicago DOT TMC- remove connection to Private Signal Maint Contractor (13)	Tier 3 Workshop	10/22/2002	Connection deleted.
51	Add Private Signal Maint Contractor to all 6 county TMCs, IDOT Dist 1 Traffic Signal Coord Timing, and IDOT Dist 1 Com Center.	Tier 3 Workshop	8/18/2002	Done
52	Delete connection to Kane County Maint from DuPage County TMC.	Tier 3 Workshop	10/22/2002	Connection deleted.
53	Add to 7 (IDOT Dist 1 Traffic Signal Coord Timing) #5(IDOT Dist 1 Lane Closure Approval)	Tier 3 Workshop	8/18/2002	Done- elements are now IDOT Bureau of Traffic-Signal Unit and IDOT Bureau of Traffic Express Operations.
54	Add to #11(ISTHA TIMS) IDOT Dist 1 Bur of Const and #5.	Tier 3 Workshop	8/18/2002	Done
55	Add To #13 (Lake County TMC) 4(IDOT Bureau of Maint), 7 (ISTHA Maint), 11(McHenry County Maint), 12 (Municipal Maint), and 6 (IDOT Dist 1 ComCenter).	Tier 3 Workshop	8/18/2002	Done
56	Add to Will County TMC #3-7 and 12.	Tier 3 Workshop	8/18/2002	Done
	Comments on APTS7			

	Comments	Source	Completed	Disposition
57	CTA: Interfaces from CTA Bus Vehicles to Roadway Elements of various regional traffic entities (Slide 11)-- Remove 3,5,7,8. This leaves signal priority connections for just CDOT, Cook County, and Lake County	Tier 3 Workshop	10/22/2002	The three listed connections remain plus, based on later discussions with CTA, a fourth interface to IDOT Dist 1 Bureau of Traffic Signal Unit Roadside Equipment was added.
58	Add interface from all 6 County TMCs to Metra Consolidated Control Center	Tier 3 Workshop	8/18/2002	Done
59	Delete Metra Train Information Mgmt System Element. It is part of the Metra Consolidated Control Center. Rename to Metra CCF for Consolidated Control Facility	Tier 3 Workshop	8/18/2002	This change was undone by comment 129, which put the element back in.
60	Transit to Transit Connections that go through the hub: RTA TIC connects to all three transit elements: CTA CC, Metra CCF, and PACE IBS. Add Municipal Transit Operations to Metra CCF. Add NICTD connects to Metra CCF	Tier 3 Workshop	10/22/2002	Checked that referenced connections made to Meta CCF. Made connections to RTA TIC.
61	Title wrong in Market Package slide (Metra Consolidated Facility)	Tier 3 Workshop	8/30/2002	Corrected MP diagram
62	Metra has connection with CHICAGO DOT, Cook County, DuPage, IDOT Traffic Signal System ISOT D1 Traffic Signal System, All 6 County roadway equipments	Tier 3 Workshop	8/18/2002	Done- created a Metra Wayside Equipment element that connects to 6 county roadside equipments.
63	Add Water Taxi Service element and show connection to Metra CCF	Tier 3 Workshop	8/18/2002	Done
64	PACE: Connect to CTA, Metra CCF, and RTA TIC. Same to NICTD. Add 6 County TMCs to and Roadside Equipment	Tier 3 Workshop	8/18/2002	Done
	Comments from Review of Arch Flows at Tier 3 Workshop			
65	Merge Chicago DOT Kiosk, CTA Kiosk and PACE Kiosk into an RTA Multi-Modal Information Kiosk (MMIK, pronounced 'mimic') element	Tier 3 Workshop	8/18/2002	Done- created one element and added other Kiosk names to description.

	Comments	Source	Completed	Disposition
66	Bureau of Convention and Tourism à provides tourism information for MMIK	Tier 3 Workshop	8/18/2002	Done
67	Illinois Transit Hub drives (is the database for) the MMIK	Tier 3 Workshop	8/18/2002	Done
68	CTA ATSS provides schedule adherence to Illinois Transit Hub	Tier 3 Workshop	8/18/2002	Done
69	Remove DUCOMM connection to Illinois Transit Hub	Tier 3 Workshop	8/18/2002	Ducomm removed as separate element.
70	METRA Commuter Rail ATSS provides schedule adherence to Illinois Transit Hub	Tier 3 Workshop	8/18/2002	Done
71	ATSSs should be mapped as a Center System not as a sign at the road. ATSS provide schedule information to other systems (namely from one Transit Center to the Illinois Transit Hub, and signs)	Tier 3 Workshop	8/18/2002	Added "center" elements for CTA and for Metra. See comment 309 for additional changes.
72	Change PACE ATSS to PACE Bus Info	Tier 3 Workshop	8/18/2002	Done
73	The correct element names are: CTA Bus Info, CTA ATSS, METRA ATSS, and a PACE Bus Info	Tier 3 Workshop	9/6/2002	Element names updated and corrected as part of the RTA Technical meeting inputs.
74	There is an error Emergency Management Private Tow and Recovery Operations are mapped incorrectly to Emergency Vehicle instead of Emergency Management	Tier 3 Workshop	8/18/2002	Done
75	Add a 511 System. Gets all its data from the gateway	Tier 3 Workshop	8/18/2002	Done
76	Remove connection between MCMs and Media	Tier 3 Workshop	8/18/2002	Done
77	Add connections between TMCs and Media	Tier 3 Workshop	8/18/2002	Done
78	Flows to Chicago DOT TMC need to be future like the TMC itself	Tier 3 Workshop	8/17/2002	Done

	Comments	Source	Completed	Disposition
	Additional Comments received at Tier 3			
79	All counties have Fire Protection Districts that are separate government entities. Provide same services as Municipal Fire Departments. May have independent dispatch, part of municipal dispatch, or part of central dispatch	Tier 3 Workshop	8/18/2002	Done- added Fire Protection Districts to description of Municipal Public Safety Dispatch
80	RED (Rural Emergency Dispatch) is Fire Dispatch for region of northern Cook County. Northwest Central Dispatch is police dispatch for same area.	Tier 3 Workshop	8/18/2002	No change needed.
81	Forest Preserves- County run. Provide Police Services. Usually involved with mutual aid pacts. Interface with other police and fire for incidents within forest preserves.	Tier 3 Workshop	8/18/2002	Changed description to municipal public safety dispatch
82	Utilities are responsible for construction and maintenance on all levels of roadway. Part of "eyes" for police and fire agencies.	Tier 3 Workshop	8/18/2002	Added Utility Element
83	Municipal Maintenance: two different functions are performed: streets and public works. Streets responsible for municipal roadways including signals. Public works responsible for sewer and water and will be performing construction affecting roadways.	Tier 3 Workshop	8/18/2002	No change needed.
84	NE Illinois Hospitals- most use EMS from fire departments and ambulance services. They have radio interface, but not dispatch. Triage Services	Tier 3 Workshop	8/18/2002	No change needed.
85	Flight for Life- Helicopter EMS	Tier 3 Workshop	8/18/2002	Element not added at present
86	Cross-check inventory list against Chicago TMC project architecture to pick out some additional inventory elements, such as Streets and Sanitation- Towing Dispatch; Department of Streets and Sanitation, Bureau of Electricity- signal operation, maintenance; Streets and Sanitation, Citywide Radio Dispatch.	Tier 3 Workshop	8/18/2002	Reviewed Documents- added element:Clty of Chicago DSS Traffic Services Dispatch

	Comments	Source	Completed	Disposition
87	Add for maintenance in Chicago: Dept Streets and Sanitation, Bureau of Electricity- signal maintenance; CDOT Bureau of Streets- Roadway Maintenance.	Tier 3 Workshop	8/22/2002	Added Elements: City of Chicago DSS BOE Signal Maintenance and City of Chicago DSS BOS Roadway Maintenance. This change was modified by comment 253.
88	Indiana State Police Dispatch has stakeholder- Indiana State Police	Tier 3 Workshop	8/17/2002	Done
89	Abbreviate Indiana DOT as INDOT.	Tier 3 Workshop	8/17/2002	Done in description of Indiana DOT Arterial TMC
90	NICTD Dispatch and NICTD Stakeholder (misspelled in Turbo)	Tier 3 Workshop	8/17/2002	Done
91	IDOT weigh scales- add to description: Pre-Pass Systems being installed at most weigh stations.	Tier 3 Workshop	8/17/2002	Done
92	CTA Paratransit Vehicles- modify description to: The vehicles are owned and operated by the individual service providers.	Tier 3 Workshop	8/17/2002	Done
93	CTA ATSS is Planned (not existing)	Tier 3 Workshop	8/17/2002	Done
	Comments Post Tier 3			
94	Consider Highway Rail crossings and their devices in the arch. Consider the interface to Rail maintenance (both Metra and Private Rail). Consider Metra Police- get involved if any rail/vehicle incident occurs. Add elements: 'US Post Office', 'National Transportation Safety Board', 'Private Rail', 'Private Rail Wayside Equipment', 'Private Rail Vehicles', 'Private Rail Dispatch', 'Private Rail Maintenance and Construction', and 'Private Rail Police' or 'Private Rail Security'	Email from Dick Raub- 8/8/02	9/6/2002	Added a Metra Wayside Equipment element, with its connections to Metra train and various Roadside elements.
95	Stakeholder for Will County traffic and maintenance elements is "Will County Department of Highways".	Will County Tech Mtg	8/25/2002	Done

	Comments	Source	Completed	Disposition
96	Regarding the Will County Roadside Equipment- add environmental sensors to the description.	Will County Tech Mtg	8/26/2002	Done
97	Change Will County 911 Centers to Will County Sheriff Communications, and the stakeholder to Will County Sheriff.	Will County Tech Mtg	8/26/2002	Done
98	Will County EOC has the stakeholder: Will County Emergency Management Agency.	Will County Tech Mtg	8/26/2002	Done
99	Add Joliet to the description of the Municipal TMCs.	Will County Tech Mtg	8/26/2002	Done
100	In Will County the policing of Forest Preserves is done through the county sheriff. Maybe add some words to Municipal Public Safety Dispatch to better indicate county involvement with the Forest Preserves.	Will County Tech Mtg	8/26/2002	Current description amply covers
101	Additional Elements: add a placeholder for the new regional airport: South Suburban Airport, with stakeholder Regional Airport Authority. Add mention under the Multimodal Transportation Service Provider element and add a Satellite South Suburban Airport TMC element. There is also a general aviation airport- Lewis Univ Airport in the county.	Will County Tech Mtg	8/26/2002	Added Element: South Suburban Airport TMC, and added reference to airport in description of element Chicago Airports.
102	Additional Element: there is a major intermodal facility under development with Rail, River, and Trucks interface. Centerpoint Intermodal Facility, with Centerpoint Development as the stakeholder.	Will County Tech Mtg	8/26/2002	Added Element: Centerpoint Intermodal Facility
103	The county has some major event generators: Joliet Speedway and Chicagoland Speedway. Also a national park (Midewan) and national cemetery.	Will County Tech Mtg	8/25/2002	Added Element: Regional Event Facilities.
104	Group recommended moving all examples of municipal public safety dispatch to the common element (rather than keeping Ducomm, etc). If we don't do that then they have a number of similar dispatch centers including Westcomm and Eastcomm.	Will County Tech Mtg	9/4/2002	Done

	Comments	Source	Completed	Disposition
105	Regarding Services- add Traffic Info Dissemination, Traveler Info Dissemination (Web site) , rail grade crossing, and maint activity coord to Will County TMC. Add Incident Management to Will County Maintenance.	Will County Tech Mtg	8/26/2002	Added to Market Package mappings to elements.
106	Incident Management Interfaces- TMS to Other TM: add Will County TMC to Indiana DOT Arterial TMC.	Will County Tech Mtg	8/26/2002	Done- interface in Database
107	Incident Management Interfaces- TMS to EM: add Will County TMC to Cook County 911 Center and Dupage County 911 Center.	Will County Tech Mtg	8/26/2002	Done
108	Incident Management Interfaces- EM to Other EM; Will County 911 Center – add Chicago 911 and Coast Guard Dispatch. Will County EOC- add Coast Guard Dispatch and Municipal Public Safety Dispatch	Will County Tech Mtg	10/9/2002	Done- added coast guard interface
109	Incident Management Interfaces- MCM to Other MCM: Will County Maint- add IDOT Dist 1 Bureau of Traffic Lane Closures	Will County Tech Mtg	8/26/2002	Done
110	An interesting new capability that is being discussed is for the Will County TMC to put CCTV images on a password protected web page that the Public Safety agencies can log into and view. Two other interesting camera interfaces are: rest areas to State Police and video going from State Police vehicles to State Police Center and then to the web site.	Will County Tech Mtg	9/6/2002	No change added at present.
111	DuPage DOT currently does not have any fixed DMS (although the maintenance group has portable DMS), CCTV, or environmental sensors, but both are options for the future. They do have video detection and signal preemption for emergency vehicles (Fire).	DuPage County Tech Mtg	8/26/2002	Modified description
112	The stakeholder for TMC, field equipment and maintenance is DuPage County Division of Transportation.	DuPage County Tech Mtg	8/26/2002	Done

	Comments	Source	Completed	Disposition
113	Change 911 center element name to DuPage County Sheriff Communications Center, with stakeholder DuPage County Sheriff. The Sheriff Comm Center handles 911 for all unincorporated parts of county and all cell phone calls for county.	DuPage County Tech Mtg	8/26/2002	Done
114	DuPage County EOC has stakeholder: DuPage County Office of Emergency Management. This EOC is staffed 24/7. It has a larger role in the region than other county EOCs, acting as a regional EOC (actually for a larger 15 county area of the state). Also maintains countywide road closure information.	DuPage County Tech Mtg	10/9/2002	Done, and modified description
115	DuPage Centralized Paratransit Dispatch. Stakeholder is DuPage County Division of Human Services. This is a joint effort with PACE to create a centralized paratransit dispatch that will work with a wide range of paratransit entities (as many as 40 providers including both private and public and taxis). The actual dispatch center will be operated by PACE. In addition to dispatch it will handle billing and reporting.	DuPage County Tech Mtg	8/26/2002	Done
116	Attendees agreed it makes sense to lump all municipal public safety (including Ducomm) into the general element.	DuPage County Tech Mtg	9/6/2002	This was done.
117	Additional Elements: Independent School District Dispatch.	DuPage County Tech Mtg	9/6/2002	Added Element
118	Municipal TMCs will also include signal coordination across multi municipality "quadrants"	DuPage County Tech Mtg	8/26/2002	Modified description
119	Additional Elements: need to consider connections to other county 911 and EOCs (the DuPage EOC has these connections currently).	DuPage County Tech Mtg	8/26/2002	Added Elements:
120	Discussion of traffic counts. Collected by many municipalities in DuPage and coordinated by County DOT. Would like to see some indication in the arch of traffic counts being archived. Discussed possibility of having traffic counts going to regional archive.	DuPage County Tech Mtg	8/26/2002	Added new flow- traffic counts.

	Comments	Source	Completed	Disposition
121	Crash Reporting: State has LARS (Local Accident Reporting System). County collects info from many municipalities and forwards to state. Some municipalities public safety agencies input directly to state. Some municipalities have their own crash databases that they do not share with the county.	DuPage County Tech Mtg	10/20/2002	Added Element, changed element name to LARS.
122	Regarding Services: DuPage County TMC- add Traveler Info Dissemination and Rail Grade Crossing.	DuPage County Tech Mtg	8/26/2002	Added to Market Package mappings to elements.
123	Emergency Services. Map DuPage county 911 to Mayday Support Market Package (but note this has a very distinct meaning(officer down) to public safety that is not our ITS meaning. Suggest not using in chart.	DuPage County Tech Mtg	8/26/2002	Added to Market Package mappings to elements.
124	Incident Mgmt Interfaces-TM to EM: DuPage County TMC – Add Illinois State Police Dist 15, Kane 911, and Will 911.	DuPage County Tech Mtg	8/26/2002	Added
125	Incident Mgmt Interfaces- EM to Other EM: DuPage EOC— add Chicago 911, add all county 911 and EOCs. Add Illinois State Police Dist 15, ISTHA Dispatch Center, Municipal Public Safety Dispatch, Other County 911 and EOC. Also National Weather Service.	DuPage County Tech Mtg	8/26/2002	Added
126	Incident Mgmt Interfaces- TMS to MCMS: DuPage TMC- Add Utility Dispatch.	DuPage County Tech Mtg	8/26/2002	Added
127	Incident Mgmt Interfaces- MCMS to Other MCM: DuPage Maint- add ISTHA Main. Need to connect to Metra Maint and Rail Ops.	DuPage County Tech Mtg	8/26/2002	Added ISTHA connection. Added connection to Freight Rail Ops. There is no Metra maint element- no connection made there.
128	DuPage Paratransit Interface for multimodal coordination- Connects to PACE fixed Route and Metra CCF. For traffic info connect to Cook, Kane, and Will TMCs.	DuPage County Tech Mtg	8/26/2002	Added

	Comments	Source	Completed	Disposition
129	The Metra TIMS element was deleted based on comments at the Tier 3. Per request of the Metra representative it should be added back to the inventory. TIMS is primarily a monitoring system, while the Metra CCF is dispatch, control, and tracking.	RTA Tech Mtg	9/4/2002	Added Metra TIMS back in as element.
130	Change element name to "Metra Active Station Signs" and add the sentence from the CTA ATSS regarding type of displays to the description.	RTA Tech Mtg	9/4/2002	Done
131	Change element name to PACE BusInfo Signs and modify first sentence of description.	RTA Tech Mtg	9/4/2002	Done
132	Add an element- CTA BusInfo Signs, which relate to signs at bus stops vs the CTA ATSS that are signs at CTA stations.	RTA Tech Mtg	9/4/2002	Done
133	Add Itinerary Planning System(IPS), with RTA as stakeholder. This drives the ATSS and BusInfo systems, as well as having an interface to users and the RTA Kiosk.	RTA Tech Mtg	9/4/2002	Done- added element RTA Itinerary Planning System
134	There are three parking management elements that need to have their element names amended to be "... Parking Mgmt Guidance System". These represent systems that identify the number of open spaces and display this information on local DMS. In that sense they are really parking information systems.	RTA Tech Mtg	10/20/2002	Name changes done. Comment 308 caused an additional name change.
135	Add element Metra PMGS Signs, which are the DMS to display the parking status.	RTA Tech Mtg	9/4/2002	Done, also added a PMS to RS interface flow for sign display
136	Add element- RTA InfoTrans, with stakeholder RTA, that represent electronic traveler information signs at Ohare and Midway in the baggage claim and on the concourses. Consider the element existing, since the test project goes into place next month, but the connections to the Ohare TMC and Midway TMC as well as the Illinois Transit Hub will be planned.	RTA Tech Mtg	9/4/2002	Done

	Comments	Source	Completed	Disposition
137	Add a Kenosha Transit Dispatch element (Wisconsin transit agency) and connect to Metra CCF.	RTA Tech Mtg	9/4/2002	Done
138	PACE Paratransit does not have a single dispatch center, rather it coordinates a variety of public and private paratransit providers. Each of them has a dispatch function.	RTA Tech Mtg	9/4/2002	Made a minor change to description to cover public and private providers.
139	APTS7- Metra CCF: Delete "transit parking lot response" flow. Flow from PMGS to Metra CCF should also go to Metra TIMS. Add IDOT field equipment and CDOT field equipment to list of roadways. Create a new arch flow to indicate train to roadway priority. Need a DMS control flow going from TIMS to Metra PMGS (and from PMGS to the signs).	RTA Tech Mtg	9/4/2002	Several changes put in. Deleted response flow, added interfaces, and created a new element "Metra wayside equipment" which interfaces with Metra Trains. The Metra wayside equipment then interfaces with the roadside elements.
140	APTS7- PACE IBS: for roadway subsystem interfaces, all are planned except IDOT Traffic Signals Roadside Eq.	RTA Tech Mtg	9/4/2002	Done
141	APTS5- Transit to EM: for CTA CC and CTA Paratransit Dispatch add Chicago 911 and Cook County 911. For Metra CCF, delete Municipal EMCs.	RTA Tech Mtg	9/5/2002	Done
142	Add emergency evacuation coordination flows (new user defined flow) from all major EOCs to all major transit mgmt centers.	RTA Tech Mtg	9/5/2002	Created new flow "emergency evacuation coordination" from EM to TRMS and TRMS to EM and added EOC to transit center interfaces as indicated.
143	APTS5-TRMS to RTS interface: None Identified.	RTA Tech Mtg	9/5/2002	Removed surveillance interfaces.
144	APTS8-CTA Bus Info: Add RTA IPS as input, Illinois Transit Hub as both input and output, and the RTA Multimodal Kiosk is an output	RTA Tech Mtg	9/5/2002	Done

	Comments	Source	Completed	Disposition
145	APTS8-Metra ATSS: RTA IPS is an input, as is Metra TIMS. Metra CCF is not an input. Visual Paging System is not an output. Metra CCF is the input for Visual Paging System(an existing system). Yes on output to RTA Multimodal Kiosk.	RTA Tech Mtg	9/5/2002	Done
146	Maintenance to Transit: Add Cook County Maint, City of Chicago Maint, and IDOT Bureau of Maint to CTA CC and Metra CCF	RTA Tech Mtg	9/5/2002	Done
147	Change stakeholder of IDOT CVO Permitting element to IDOT Central Bureau of Operations.	IDOT Tech Mtg	9/5/2002	Done
148	Change IDOT ...Lane Closure Approval element name to IDOT District 1 Bureau of Traffic-Express Operations Unit. Indicate in description that this unit handles approval of lane closures and distributes information regarding closures.	IDOT Tech Mtg	9/5/2002	Done
149	Change IDOT...Signal Coord Timing element name to IDOT District 1 Bureau of Traffic-Signal Unit. Handle 250 traffic signal systems operating over 4000 intersections.	IDOT Tech Mtg	9/5/2002	Done
150	Change IDOT...Signal Systems Roadside Equipment element name to "IDOT District 1 Bureau of Traffic Signal Unit Roadside Equipment".	IDOT Tech Mtg	9/5/2002	Done
151	In description of IDOT ComCenter Roadside Equipment add mention of DMS and HAR and remove barrier walls reference.	IDOT Tech Mtg	9/5/2002	Done
152	Change VMS to DMS in description of IDOT TSC Roadside Eq.	IDOT Tech Mtg	9/5/2002	Done
153	Delete element IDOT HAR Network.	IDOT Tech Mtg	9/5/2002	Done
154	In description of ComCenter add "and Operations after "incident management" in the first sentence.	IDOT Tech Mtg	9/5/2002	Done
155	Change stakeholder of IDOT Rest Area Kiosks to IDOT Central Bureau of Operations.	IDOT Tech Mtg	9/5/2002	Done
156	Add element IDOT Metro Kiosks, with stakeholder IDOT District 1.	IDOT Tech Mtg	10/9/2002	Added new element

	Comments	Source	Completed	Disposition
157	Add element IDOT Central Bureau of Ops Roadway/Weather Information System. Drives IDOT Rest Area Kiosks.	IDOT Tech Mtg	9/5/2002	Done
158	Note: Rest Areas have surveillance and panic button going to District 5 State Police.	IDOT Tech Mtg	10/9/2002	Added flows going from IDOT Rest Area Kiosks to State Police
159	Add new element ETP Vehicle.	IDOT Tech Mtg	9/6/2002	Done
160	Add new element IDOT Maintenance Vehicle	IDOT Tech Mtg	9/6/2002	Done
161	Change IDOT Bureau of Maint element to IDOT District 1 Maintenance Management and describe that this represents the Duty Engineer and Operations Area Engineer.	IDOT Tech Mtg	9/6/2002	Done
162	Add element IDOT District 1 Maintenance Yards and map to equipment repair facility.	IDOT Tech Mtg	9/6/2002	Done
163	Change element Private Signal Maint Cont name to "Private Sector Maintenance Contractors". Indicate in description they maintain signals, HAR, lights, pumping stations.	IDOT Tech Mtg	9/6/2002	Done
164	Change element SSI Weather Sensors name to IDOT Central Bureau of Operations Roadside Equipment and put in description this includes RWIS and traffic counts.	IDOT Tech Mtg	9/6/2002	Done
165	Illinois Gateway should have stakeholder IDOT District 1.	IDOT Tech Mtg	9/6/2002	Done- made stakeholder IDOT District 1 Traffic
166	Change element State EOC to Illinois State Operations Center with stakeholder Illinois Emergency Management Agency.	IDOT Tech Mtg	9/6/2002	Done
167	During discussion of municipal public safety dispatch elements (such as Ducomm and Southcom), it was suggested that all the specific examples be folded into the generic element, Municipal Public Safety Dispatch. After discussion it was agreed to do that and to put all the specific names of the centers in the description of the general element.	IDOT Tech Mtg	9/6/2002	Done

	Comments	Source	Completed	Disposition
168	Add Borman TMC element. After some discussion it was agreed to include the "logical" connection between elements (e.g. the connection between IDOT TSC and Borman TMC) as well as the "physical" connection (through the Illinois Gateway).	IDOT Tech Mtg	9/6/2002	Done
	Discussion of IDOT Stakeholder Roles and Responsibilities			
169	IDOT Dist 1 Construction builds it	IDOT Tech Mtg	9/6/2002	No change to database- used in Operational Concept part of documentation
170	IDOT Dist 1 Elec Operations lights it and communicates with it	IDOT Tech Mtg	9/6/2002	No change to database- used in Operational Concept part of documentation
171	IDOT Dist 1 Maintenance keeps it running	IDOT Tech Mtg	9/6/2002	No change to database- used in Operational Concept part of documentation
172	IDOT Dist 1 Traffic (which has a signal unit and an expressway unit) makes sure the cars keep moving	IDOT Tech Mtg	9/6/2002	No change to database- used in Operational Concept part of documentation
173	IDOT Central Operations runs rest areas (kiosks there) and weigh stations.	IDOT Tech Mtg	9/6/2002	No change to database- used in Operational Concept part of documentation
	Discussion of IDOT Interfaces			
174	IDOT Traffic Signal Coord Timing- add interfaces to IDOT Comm Center, ISTHA TMC, and the three airport TMCs.	IDOT Tech Mtg	9/6/2002	Done. Element renamed IDOT District 1 Bureau of Traffic Signal Unit, and interfaces to the elements in comment.
175	IDOT ComCenter- add ISTHA TMC and McHenry County TMC (under TMS to Other TM)	IDOT Tech Mtg	9/6/2002	Done

	Comments	Source	Completed	Disposition
176	IDOT TSC- add Satellite TMC Midway Airport (under TMS to Other TM)	IDOT Tech Mtg	9/6/2002	Done
177	IDOT Traffic Signal Coord Timing- delete DuPage County Sheriff Comm Center Interface (TMS to EM)	IDOT Tech Mtg	9/6/2002	Done deleted interface from IDOT Dist 1 Bureau of Traffic Signal Unit to DuPage Cty Sheriff.
178	IDOT CommCenter connects to all EMs for incident and resource flows. For remote surv control add Chicago 911 Comm.(TMS to EM) Add interfaces for all maintenance elements (TM to MCM)	IDOT Tech Mtg	9/6/2002	Done
179	IDOT TSC- add State Police (Dist 2,5, Chicago) for all including remote surv control. Delete *999 from remote surv control and there is no connection on Cook County 911 and Dupage Sheriff. (TMS to EM)	IDOT Tech Mtg	9/6/2002	Done
180	Illinois Gateway- remove connections for remote surv control (TMS to EM). Add interfaces to all maint elements (TMS to MCM)	IDOT Tech Mtg	9/6/2002	Done
181	IDOT EPT- add interface to Chicago 911 center (EM to Other EM)	IDOT Tech Mtg	9/6/2002	Done
182	IDOT Traffic Signal Coord Timing- add interfaces to IDOT Bur of Construction, Bureau of Maint, ISTHA maint, Kane County Maint, Lake County Maint, McHenry County Maint, Municipal/Township Maint, Will County Maint, and City of Chicago DSS BOS Roadway Maint. (TMS to MCM)	IDOT Tech Mtg	9/6/2002	Done
183	IDOT Traffic Lane Closure Approval connects to State Police (Dist 2,5, Chicago) Connect to IDOT Dist 1 Construction for portable DMS resource coord.	IDOT Tech Mtg	9/6/2002	Done
184	IDOT Traffic Signal Coord Timing- have existing wet pavement sensors that activate flashers (in Des Plaines and Joliet).	IDOT Tech Mtg	9/6/2002	No change made at present.

	Comments	Source	Completed	Disposition
185	Need to interface IDOT Dist 1 Central Bureau of Operations with IDOT District 1 Central Bureau of Operations Roadside Equipment	David Zavattero e-mail to Bruce Eisenhart on 9/6/02	10/9/2002	Current database has connection from Central Bur of Ops Roadside Eq to Weather Services(the connection to SSI), and to ComCenter and IDOT Dist 1 Central Bureau of Ops Roadway and Weather info sys.
186	Municipal Public Safety Dispatch Centers with which projects are underway should be shown explicitly - these are NWCD, SouthCom, Chicago 911, DuComm	David Zavattero e-mail to Bruce Eisenhart on 9/6/02	10/9/2002	Mention of each of the specific municipal 911 Centers (except City of Chicago, which has its own element) is now done in the description of the Municipal Public Safety Dispatch element.
187	Stakeholders add item 6) IDOT ITS Program Office - operates Gateway Central Hub	McHenry County Tech Meeting	10/9/2002	This was contradicted by another comment defining the stakeholder of Gateway Central Hub.
188	There are 9 PSAP's in McHenry County. One is county operated and covers unincorporated areas of the county. The rest are operated by individual cities or townships. Many have CAD systems. There is a future effort (CCOM) to combine several of these into one.	McHenry County Tech Meeting	10/9/2002	Done - see comment #104- incorporated into general element Municipal Public Safety Dispatch

	Comments	Source	Completed	Disposition
189	McHenry County Sheriff's Dispatch and McHenry County Conservation District Police Force elements need to be added.	McHenry County Tech Meeting	10/9/2002	Changed element McHenry County 911 Centers to McHenry County Sheriff Dispatch, with stakeholder McHenry County Sheriff. Conservation district handled as part of Municipal Public Safety Dispatch.
190	Interface Indiana State Police District 11 with Chicago Police Dept.	NW Indiana Tech Mtg	10/9/2002	Added connection to Chicago 911 Emergency Comm
191	Interface Indiana State Police District 13 connection with Illinois State Police	NW Indiana Tech Mtg	10/9/2002	Connection already in database
192	Borman TMC only connects to Gateway	NW Indiana Tech Mtg	10/9/2002	This contradicts comment #168. Decision made to show connections to Borman as direct even though they will come through the Gateway.
193	Gary Airport is part of the Chicago Airport Authority	NW Indiana Tech Mtg	10/9/2002	Added Gary Airport to description of Chicago Airports.
194	HazMat routes are followed by HazMat Tracking and City of Chicago TMC	NW Indiana Tech Mtg	12/22/2002	Final database has tracking done by HazMat Tracking.
195	Cook County Traffic Signal Systems: connection to IDOT TSC, Illinois Gateway, and to Airport TMC	Cook County Tech Mtg	10/12/2002	Connections added to Cook County TMC, which contains Cook County Traffic Signal Systems.
196	Cook County TMC: add connection to Tollway; clarify connection to Illinois Gateway- ISP and TMS type info	Cook County Tech Mtg	10/11/2002	Connection to Tollway is there. Added ISP type flows.
197	Traffic Management to Maintenance and Construction Management: add connections to Utility Dispatch Center	Tier III	10/11/2002	Added interfaces to TMCs.

	Comments	Source	Completed	Disposition
198	Northeastern Illinois Inventory Table: add Satellite Tracking to description of Commercial Vehicles	Tier III	10/9/2002	Added mention of satellite tracking to description of Commercial Vehicles.
199	Mention in element description for 'IDOT District 1 Traffic Systems Center Roadside Equipment' that this includes signals to ISTHA's ramps	Dave Zeisemer comments on IDOT Technical meeting	10/9/2002	Changed description to include ISTHA reference.
200	Include Description of IDOT Bureau of Traffic, page 11	Dave Zeisemer comments on IDOT Technical meeting	9/5/2002	Done. Overridden by comments #47, #53, #148
201	ISTHA to interface with GCM Gateway	IDOT/ISTHA Policy Meeting	10/13/2002	Done as connection to Illinois Gateway.
202	Streets and signal systems at the county level to interface with GCM Gateway	IDOT/ISTHA Policy Meeting	10/13/2002	Done- interface is handled as county TMC to Illinois Gateway.
203	Change North Eastern to Northeastern on website	Mousa email to Bruce	10/13/2002	Done.
204	Clarification on comment # 71 – for CTA/Pace/Metra, all Active Transit Station Systems should be mapped as Transit Management subsystems, and Active Transit Station Signs should be mapped as Remote Traveler Support Subsystems.	Bruce-Duana emails 8/20 - 8/30	10/20/2002	Clarification on comment # 71. This along with comment 309 have been put in the database.
205	Add Element (existing) for WsDOT Dist 2 Traffic Operations Center, with WsDOT Dist 2 as stakeholder. This element includes the MONITOR system. Regarding connections, the WsDOT TOC will interface with ISTHA TIMS, Lake County TMC, IDOT TSC, and IDOT Com Center. All of these connections will be physically made through the Gateway.	SE Wisconsin Technical Meeting	10/9/2002	Added Element and connections

	Comments	Source	Completed	Disposition
206	Add element Kenosha County Public Safety. This individual county is of importance to Lake County. Include county EOC in the description. Meeting with Lake County the following day confirmed the importance of breaking this element out. Leave the generic element Wisconsin Municipal Public Safety to be the public safety below the county level (at the municipal level).	SE Wisconsin Technical Meeting	10/9/2002	Done- added element
207	Consider adding state EOC element- State of Wisconsin Emergency Management. In discussion with Lake County the following day, the public safety representative indicated there was no need for a direct connection to Wisconsin State EOC. This would be handled through someone else.	SE Wisconsin Technical Meeting	10/9/2002	No change to database needed- Lake County decided they would not have a direct connect to Wisconsin State EOC.
208	Change element name to Wisconsin State Patrol District 2 Dispatch (District 3 mentioned in current element name is for area up by Milwaukee, not near Illinois border).	SE Wisconsin Technical Meeting	10/9/2002	Changed element name to Wisconsin State Police District 2 Dispatch
209	Add an element for Kenosha County Highway Maintenance, with stakeholder Kenosha County Department of Public Works. Connect it to Lake County Maintenance and Toll Road Maintenance. This element has access to RWIS information that it can share.	SE Wisconsin Technical Meeting	10/9/2002	Added element and connections
210	Consider adding an element for the Milwaukee airport- Mitchell Field for the sharing of airport and airline information (i.e. multimodal data)	SE Wisconsin Technical Meeting	10/9/2002	Added new element- neighboring airports to include Mitchell.
211	Consider adding element for Froedert Hospital in Milwaukee, which has Flight for Life helicopter operating out of the hospital.	SE Wisconsin Technical Meeting	10/9/2002	Based on this connection not being considered important by Lake County, this was not added to the arch.
212	Delete elements for Milwaukee County Transit System Control Center and Transit Plus Paratransit Dispatch. These systems are restricted to Milwaukee County (or at least to counties not bordering on Illinois).	SE Wisconsin Technical Meeting	10/9/2002	Elements deleted.

	Comments	Source	Completed	Disposition
213	Wisconsin Municipal Public Safety should interface to Municipal Public Safety Dispatch, Lake/McHenry/DuPage EOC.	SE Wisconsin Technical Meeting	10/9/2002	Add interface with Municipal Public Safety, McHenry EOC, and DuPage EOC. At Lake County meeting the next day they indicated they did not have any need for the connection to Lake EOC.
214	Kenosha Public Safety Dispatch should interface to Lake County 911 Center and Lake County EOC, McHenry County 911 and McHenry County EOC, Municipal Public Safety Dispatch, and ISTHA Dispatch.	SE Wisconsin Technical Meeting	10/9/2002	Connections added
215	Wisconsin State Police Dist 2 Dispatch should also connect to Ill State Police Dist 15 Ops Desk, Ill State Police (Dist 2,5&Chicago) and ISTHA Dispatch.	SE Wisconsin Technical Meeting	10//9/2002	Connections added
216	Kenosha Public Safety should connect to Lake County TMC	SE Wisconsin Technical Meeting	10/9/2002	Connection added.
217	Wisconsin State Patrol element should connect to Lake and McHenry County TMCs.	SE Wisconsin Technical Meeting	10/9/2002	Connection to McHenry TMC added.
218	Change Lake County Maintenance Element to: Lake County Highway Maintenance. In description indicate this has general maintenance dispatch and sign shop dispatch. This element monitors 4 RWIS stations at the four corners of the county.	Lake County Technical Meeting	10/9/2002	Changed element name and description per comment.
219	Add element Lake County Highway Construction, with interfaces to Lake County TMC, Lake County Highway Maintenance, Lake County Comm Center, and Municipal public safety. This element provides workzone information to these other elements. It also has DMS control, puts cameras on work sites.	Lake County Technical Meeting	10/9/2002	Added element and description and connections.

	Comments	Source	Completed	Disposition
220	Stakeholder for Lake County TMC, Roadside Equipment and Maintenance and Construction elements should be Lake County Division of Transportation	Lake County Technical Meeting	10/9/2002	Change to stakeholder name made in database.
221	The Lake County Roadside Equipment includes traffic signals, traffic sensors and CCTV as existing and dynamic message signs as planned.	Lake County Technical Meeting	10/9/2002	No change to description needed. All four types of devices are mentioned
222	Change Lake County 911 Centers element to Lake County Communications Center with stakeholder Lake County Sheriff.	Lake County Technical Meeting	10/9/2002	Changed element name and stakeholder name
223	Change Stakeholder of Lake County EOC to Lake County Sheriff. There are actually two facilities- an office in Libertyville and an EOC room in Waukegan. The one element will stand for both.	Lake County Technical Meeting	10/9/2002	Changed element stakeholder
224	Add Element Great Lakes Training Center, with stakeholder US Navy. This element maps to Event Promoter and Emergency Management. They have a police department, and generate a lot of traffic when they have events. They also need to be coordinated with during any evacuation.	Lake County Technical Meeting	10/9/2002	Added Element
225	Add to description of Regional Event Facilities that it includes 6 Flags Great America, Gurne Mills, Ravinia Park, and Universities and Colleges.	Lake County Technical Meeting	10/9/2002	Added to description.
226	TMS to Other TM: Add Lake County TMC to WsDOT Dist 2 TOC.	Lake County Technical Meeting	10/9/2002	Added connection
227	TMS to EM: Add Lake County TMC to-- ISTHA Dispatch Center, Kenosha County Public Safety, Lake County Comm Center and McHenry County 911. For remote surv control add Municipal Public Safety.	Lake County Technical Meeting	10/9/2002	Added connections
228	EM to Other EM: Add to Lake County Comm Center—Ill State Police Dist 15, ISTHA Dispatch Center, Kenosha County Public Safety, and Great Lakes Training Center.	Lake County Technical Meeting	10/9/2002	Added connections

	Comments	Source	Completed	Disposition
229	EM to Other EM: Add to Lake County EOC—Ill State Ops Center, Lake County Comm Center, McHenry County EOC and Kenosha County Public Safety. Delete the other Wisconsin elements.	Lake County Technical Meeting	10/9/2002	Added connections
230	MCM to Other MCM: Add to Lake County Highway Maint—ISTHA Maint and Constr, Kenosha County Maint, Municipal/Township Maint, Private Sector Maint Contractor, and IDOT Maint Yards.	Lake County Technical Meeting	10/9/2002	Added connections
231	MCM to EM: Add to Lake County Maint—Lake County Comm Center and Municipal Public Safety.	Lake County Technical Meeting	10/9/2002	Added connections
232	For future give Lake county Maint direct access to CCTV in Lake County Roadside Equipment	Lake County Technical Meeting	10/9/2002	Flow added
233	Change City of Chicago Transportation stakeholder name to City of Chicago Department of Transportation.	City of Chicago Tech Meeting	10/10/2002	Stakeholder Name changed
234	Chicago TMC element- add mention of BOE Radio Main to description	City of Chicago Tech Meeting	10/10/2002	Description changed
235	Chicago DOT Roadside Equipment- add traffic signals to description.	City of Chicago Tech Meeting	10/10/2002	Description changed
236	Chicago DOT Transportation WebSite- add mention of email subscription of information to the description.	City of Chicago Tech Meeting	10/10/2002	Description changed
237	Change element Chicago Skyway name to City of Chicago Skyway Operations. Change stakeholder for this element to City of Chicago. It is actually a joint responsibility of Streets and Sanitation and Dept of Transportation. After some discussion the more general City of Chicago seemed the best way to go for stakeholder. In the description for this element add that it manages the Skyway traffic and does toll administration.	City of Chicago Tech Meeting	10/10/2002	Element name changed, Stakeholder changed, and description updated.

	Comments	Source	Completed	Disposition
238	Change Chicago Skyway Roadside Equipment to City of Chicago Skyway Roadside Equipment. Add to description that this includes CCTV, detectors, and an RWIS	City of Chicago Tech Meeting	10/10/2002	Description changed
239	Add an element City of Chicago Skyway Toll Plaza and map to Toll Collection Subsystem.	City of Chicago Tech Meeting	10/10/2002	Element added
240	Stakeholder City of Chicago Streets and Sanitation should be City of Chicago Department of Streets and Sanitation.	City of Chicago Tech Meeting	10/10/2002	Stakeholder Name changed
241	City of Chicago DSS BOE Signal Maint- add to description that it includes maintenance of lights.	City of Chicago Tech Meeting	10/10/2002	Description changed
242	City of Chicago DSS BOS Roadway Maint element- change name to CDOT BOS Roadway Maintenance and change stakeholder to City of Chicago Department of Transportation. This element does roadway maint such as resurfacing and pothole repair.	City of Chicago Tech Meeting	10/10/2002	Element name changed, Stakeholder changed, and description updated.
243	Add a new element- City of Chicago Bureau of Street Operations Dispatch, with stakeholder City of Chicago Department of Streets and Sanitation Bureau of Street Operations. This element dispatches snowplows and garbage trucks.	City of Chicago Tech Meeting	10/10/2002	Element added
244	Add an element City of Chicago DSS Roadside Equipment, with stakeholder City of Chicago Dept of Streets and Sanitation. This element includes CCTV and RWIS stations (on 8 bridges). Interface this element with the CDOT TMC.	City of Chicago Tech Meeting	10/10/2002	Element added, connections made
245	Satellite TMC Midway Airport has status existing.	City of Chicago Tech Meeting	10/10/2002	Changed status and updated description
246	Chicago Airports- add to description reference to Meigs Field and Gary Airport.	City of Chicago Tech Meeting	10/9/2002	Added Meigs field and Gary Airport to description of Chicago Airports element.
247	Stakeholder City of Chicago Aviation should be City of Chicago Department of Aviation.	City of Chicago Tech Meeting	10/11/2002	Stakeholder Name changed

	Comments	Source	Completed	Disposition
248	Chicago 911 Emergency Communications Center element should have stakeholder City of Chicago Office of Emergency Management and Communications.	City of Chicago Tech Meeting	10/11/2002	Stakeholder changed
249	Add element City of Chicago Emergency Operations Center, mapped to Emergency Management Subsystem, with stakeholder City of Chicago Office of Emergency Management and Communications.	City of Chicago Tech Meeting	10/11/2002	Element added
250	Add element City of Chicago 311 Center, mapped to Emergency Management Subsystem, with stakeholder City of Chicago Office of Emergency Management and Communications.	City of Chicago Tech Meeting	10/11/2002	Element added
251	Add element Airport Parking Systems, mapped to Parking Management Subsystem with stakeholder City of Chicago Department of Aviation.	City of Chicago Tech Meeting	10/11/2002	Element added
252	Add element Chicago Park District Parking Management System, mapped to Parking Management subsystem, with stakeholder Chicago Park District	City of Chicago Tech Meeting	10/11/2002	Element added
253	Add element MPEA Parking Management, mapped to parking management subsystem, with stakeholder Metro Pier and Exposition Authority (MPEA). In description indicate this is parking management of parking systems at McCormick Place and Navy Pier.	City of Chicago Tech Meeting	10/11/2002	Element added
254	The City of Chicago 911 element will be installing 40 CCTV inside the Loop. Need to show an interface from this element to CDOT TMC for images.	City of Chicago Tech Meeting	10/11/2002	Flow added
255	For CDOT TMC interfaces to Other TM add the following Satellite TMC Midway Airport.	City of Chicago Tech Meeting	10/11/2002	Connection added
256	For the Chicago Skyway interfaces to Other TM add Illinois Gateway and Indiana Toll Road Operations.	City of Chicago Tech Meeting	10/11/2002	Connections added
257	For Satellite TMC Midway Airport interfaces to Other TM add Cook County TMC.	City of Chicago Tech Meeting	10/11/2002	Connection added

	Comments	Source	Completed	Disposition
258	For Satellite TMC O'Hare Airport interfaces to Other TM add Chicago DOT TMC, Cook County TMC, IDOT Dist 1 Com Center, ISTHA TIMS, and DuPage County TMC.	City of Chicago Tech Meeting	10/11/2002	Connections added
259	For CDOT TMC interfaces to EM delete remote surveillance control interface for Cook County 911 Centers.	City of Chicago Tech Meeting	10/11/2002	Connection removed
260	For Satellite TMC Midway Airport to EM interfaces add City of Chicago 911 Emergency Communications Center, Cook County 911 Centers, and IDOT Dist 1 Com Center.	City of Chicago Tech Meeting	10/11/2002	Connections added
261	For City of Chicago 911 Emergency Comm Center to Other EM interfaces delete Municipal EMCs, Will County Sheriff Comm Center, and add Ill State Police Dist 14 Ops Desk.	City of Chicago Tech Meeting	10/11/2002	Connections deleted and added.
262	For City of Chicago EOC to Other EM add City of Chicago 911 Emergency Comm Center, Cook County EOC, DuPage County EOC, Illinois State Ops Center, and Municipal EMCs.	City of Chicago Tech Meeting	10/11/2002	Connections added
263	Add interface from Utility Dispatch to the City of Chicago 911 Emergency Communications Center.	City of Chicago Tech Meeting	10/11/2002	Connection removed
264	The stakeholder for the traffic and maintenance elements should be Kane County Division of Transportation	Kane County Tech Meeting	10/10/2002	Stakeholder name changed
265	Under Kane County Roadside Equipment, add automated deicing sensor.	Kane County Tech Meeting	10/10/2002	Changed description (used term anti icing)
266	Under element Kane County 911 Center (delete the "s" in the last word), the stakeholder should be Kane County Sheriff, and the description should include police, fire, and EMS.	Kane County Tech Meeting	10/10/2002	Element name, stakeholder and description changed.
267	Element should be Kane County EOC, with stakeholder Kane County Office of Emergency Management.	Kane County Tech Meeting	10/10/2002	Element name and stakeholder name changed.
268	Under element Municipal TMCs, add to e.g. list the cities of Aurora and Elgin.	Kane County Tech Meeting	10/10/2002	Description changed.
269	Under Municipal Public Safety Dispatch, the county has 4 municipal PSAPS- Quadcom, Elgin Dispatch, Tricom, and Aurora Dispatch. Add these to list in description.	Kane County Tech Meeting	10/10/2002	Description changed.
270	Add to description of Regional Event Facilities Kirk Stadium and Kane County Fairgrounds.	Kane County Tech Meeting	10/10/2002	Description changed.

	Comments	Source	Completed	Disposition
271	Under Kane County TMC interfaces to Other TM, add ISTHA TIMS.	Kane County Tech Meeting	10/11/2002	Connection added
272	Under Kane County TMC interfaces to EM add Municipal Public Safety Dispatch.	Kane County Tech Meeting	10/11/2002	Connection added
273	Under Kane County 911 Center interfaces to EM add Ill State Police Dist 15 Ops Desk.	Kane County Tech Meeting	10/11/2002	Connection added
274	Under Kane County EOC interfaces to EM add Ill State Ops Center.	Kane County Tech Meeting	10/11/2002	Connection added
275	Under Kane County TMC interfaces to MCM add Cook County Maintenance and DuPage County Maintenance	Kane County Tech Meeting	10/11/2002	Connection added
276	Under Kane County Maintenance interfaces to Other MCM add Municipal/Township Maint.	Kane County Tech Meeting	10/11/2002	Connection added
277	Under Kane County Maint interface to EM remove interface to DuPage County EOC.	Kane County Tech Meeting	10/11/2002	Connection removed
278	Under Kane County Maint interfaces to Roadside Elements remove roadway info system data flow.	Kane County Tech Meeting	10/11/2002	Connection removed
279	Home Page - change 'North Eastern' to 'Northeastern'; also need to change in some descriptions (IDOT rest area kiosks for example)	Web Review-Home Page	10/22/2002	Fixed spelling in database. Logo on home page adjusted in final website version.
280	Home Page - 2nd paragraph: change agencies' to agency's	Web Review-Home Page	12/15/2002	Fixed in final website version
281	For both database and webpage, make City of Chicago Dept. elements consistent: call Chicago DOT 'City of Chicago DOT' or call DSS Bureaus 'Chicago DSS Bureau of...'	Web Review-Stakeholders	10/11/2002	Updated element names for CDOT to start with City of...
282	County Sheriff's - Do we want to list each sheriff's office separately? If yes, list sheriff offices. If not, rename 'County Sheriffs' and take out DuPage Sheriff, Will Sheriff, etc. Also affects Inventory by Stakeholder page	Web Review-Stakeholders	10/11/2002	No Change- county sheriffs are stakeholders for the 911 centers in each county.
283	Capitalize Ne Illinois Hospitals/Medical Centers	Web Review-Stakeholders	10/11/2002	Corrected

	Comments	Source	Completed	Disposition
284	Will County Sheriff misspelled	Web Review- Stakeholders	10/11/2002	Fixed.
285	Darien Dispatch Services is not included on this page - needs to have elements associated with it or eliminate from Stakeholder page	Web Review- Inventory by Stakeholder	10/11/2002	Stakeholder removed
286	Illinois Department of Transportation ITS Program Office - not listed; associate with elements or eliminate from stakeholder page	Web Review- Inventory by Stakeholder	10/11/2002	Stakeholder removed
287	For CTA Control Center, have description read, "...rapid transit trains and provides power control for rapid transit operations. Both the ..."	Web Review- Inventory by Stakeholder	10/11/2002	Description changed
288	For CTA Paratransit Dispatch, have description read " ...has their own distinct dispatch center, and in the future plan to have their own AVL/MDT system.	Web Review- Inventory by Stakeholder	10/11/2002	Description changed
289	DuPage Centralized Paratransit Dispatch - have description end with a period.	Web Review- Inventory by Stakeholder	10/11/2002	Description changed
290	CTA Bus Vehicle Description - remove the word 'to' in the phrase "...as well as to provide..."	Web Review- Inventory by Stakeholder	10/11/2002	Description changed
291	Capitalize Ne Illinois Hospitals/Medical Centers	Web Review- Inventory by Stakeholder	10/11/2002	Stakeholder name changed
292	RED, SouthCom, SSI: not listed; associate with elements or eliminate from stakeholder page	Web Review- Inventory by Stakeholder	10/11/2002	Stakeholders removed
293	Will County Private Emergency Agencies: associate with elements or eliminate from stakeholder page	Web Review- Inventory by Stakeholder	10/11/2002	Stakeholder removed
294	Misspelled CTA Parking Management Guidance System	Web Review- Inventory by Stakeholder	10/11/2002	Element name corrected

	Comments	Source	Completed	Disposition
295	CTA Parking Management Guidance System - in description, misspelled 'use'	Web Review-Inventory by Stakeholder	10/11/2002	Error fixed
296	Under City of Chicago Streets and San, misspelled Signal Maintenance	Web Review-Inventory by Stakeholder	10/11/2002	Error fixed
297	Description of IDOT District 1 Bureau of Traffic Signal Unit Roadside Equipment references "IDOT District 1 Signal Coordination and Timing", which has been changed to IDOT District 1 Bureau of Traffic Signal Unit	Web Review-Inventory by Stakeholder	10/11/2002	Error fixed
298	IDOT CVO Inspection Facility - description has question marks. Need to find out where this facility is located.	Web Review-Inventory by Stakeholder	10/11/2002	Description updated.
299	CVO Inspection Reporting - rewrite description to more clearly define what the three capabilities are.	Web Review-Inventory by Stakeholder	10/22/2002	Description changed.
300	DuPage County Division of Transportation needs a space in between of and Transportation	Web Review-Inventory by Stakeholder	10/11/2002	Error fixed
301	Chicago Airports - change description to say '... South Suburban Airport.'	Web Review-Inventory by Stakeholder	10/11/2002	Error fixed
302	Add CDOT TMC to Satellite Midway TMC interface	Web Review-Inventory by Entity	10/11/2002	Interface added
303	Market Packages Intro - 2nd paragraph, change wording to "Each of the selected market packages was..."	Web Review-Market Packages	12/15/2002	Fixed in final website version
304	Market Packages Diagrams are not there	Web Review-Market Packages	12/22/2002	Added to final web based version.

	Comments	Source	Completed	Disposition
305	Indiana County / Municipal Public Safety Dispatch: Currently showing an interface to McHenry County 911 Centers, EOC, and TMC. Since McHenry County is in the far NW suburbs, this seems unlikely and downright odd. I'm also not sure about the interface to the Lake County TMC. Is this the Lake County, IL TMC? If so, the comment above once again applies. Indiana State Police District Dispatch: Currently showing an interface to our old friend McHenry County 911 Centers.	Email from Steve Wuertz- Oct 2	10/11/2002	McHenry and Lake interfaces removed. They shouldn't be there.
306	Whatever happened to our nomenclature "subregional TMCs" from Tier II Architecture - which inferred the TMC could be either County, municipal, or any combination thereof. If we cannot undo what we have to this point developed (e.g., separate county and municipal TMC designations), I would like it to be clear that the DuPage County TMC that is inventoried is not the same thing as the DuPage TMC for which STP and CMAQ dollars are currently designated. I guess we'd need to be identified under the municipal TMC category, with the stakeholder being the DuPage Mayors and Managers Conference. (The City of Wood Dale is officially our Lead Agency for the project). The description of Municipal TMCs fits us ok, although could you change the last sentence of the Description to read "May include multi-jurisdictional signal coordination within subareas or corridors that may or may not be contiguous."	Email from Michelle Ryan- October 2	12/10/2002	Created new element DuPage Area TMC with Stakeholder Dupage Mayors and Managers Conference.
307	Would the regional architecture address information to or from federal agencies such as environmental sensor monitoring by EPA or vehicle crash reporting to FHWA?	Email from Wendell Meyer- Sept 30	10/21/2002	Did not identify any cases where information goes directly from region to Federal before going through statewide elements that are in architecture.

	Comments	Source	Completed	Disposition
308	I have talked to a number of people here at Pace and no one is familiar with a Pace Parking Management Guidance System. I believe that Metra is working on this project. Secondly, you list Pace BusInfo and Pace BusInfo Signs. Technically, these are RTA projects. We will be providing this project with schedule adherence data from our IBS system but right now the RTA is spearheading the project.	Email from Jerry Kotwica-Oct 4	10/20/2002	Changed PACE PMGS to Municipal PMGS.
309	Secondly, you list Pace BusInfo and Pace BusInfo Signs. Technically, these are RTA projects. We will be providing this project with schedule adherence data from our IBS system but right now the RTA is spearheading the project.	Email from Jerry Kotwica-Oct 4	10/20/2002	Removed element PACE Businfo, and added sentence to description of PACE IBS to indicate the function occurs there. Changed Pace BusInfo Signs to Municipal BusInfo Signs with RTA as stakeholder
310	My main concern with completing this effort is "where do we go next?" The architecture maintenance section provides good thinking on how to approach updates, and the ATTF should address the scheduling and control issues summarized in that section. I am left a little concerned about the Operational Concept, as it seems that we need to carry that effort forward through the task force, and I am also wondering if functional requirements will need to be addressed at the regional level (by the task force). Could you provide some commentary on these issues?	Mark Thomas comments on Draft Documentation	12/22/2002	Operational concept has been defined as a high level set of roles or responsibilities by stakeholder. More detailed operational concepts might be desired to support regional projects, but arent needed for regional ITS architecture. In the same vein, high level functions are addressed in the regional arch. Additional details may be useful for project level definition but arent needed at regional level.

	Comments	Source	Completed	Disposition
311	We selected the six counties as the region, however, in a couple of the stakeholder meetings it was suggested that we consider parts of Kendall County as they are becoming developed as a contiguous part of the region. Kendall County is part of our air quality conformity boundary and we should recommend re-addressing the description of “the region” in architecture updates.	Mark Thomas comments on Draft Documentation	12/17/2002	Discussion added under section on region to indicate that portions of Kendall County are in the planning area.
312	Please, clarify the column title “Transportation Service” in the table. I think we said that this should be “Market Packages” and that those market packages not included in the table should be added. Roles and responsibilities in the table should also be refined to reflect specific information from stakeholder meetings. Further development of the operational concept can be achieved through additional meetings and through the development of project architectures.	Mark Thomas comments on Draft Documentation	12/22/2002	Column title remains, but the basic areas covered by transportation services are described in the text.
313	I did not see the DuPage Area TMC in this section. If the DuPage Mayors and Managers are planning a TMC it should be in the list. If you have decided not to put it in separately then the Municipal TMC description should be expanded to cover this system.	Mark Thomas comments on Draft Documentation	12/10/2002	Added element and connections for Dupage Area TMC.
314	Also, is the U.S. Coast Guard now under the Department of Homeland Security? This is a new issue, but we could add some language that anticipates this federal reorganization	Mark Thomas comments on Draft Documentation	12/10/2002	Updated description.

	Comments	Source	Completed	Disposition
315	There is a set of boxes that look new to me. They start with Care Facility and end with Wayside Equipment. What are these? Is wayside equipment different from roadside equipment, and isn't the "media" box really part of the "travelers" box? I was just getting comfortable with the 4 major categories in the colored boxes. Are these items "terminators" If these boxes are new to the national template then we need some specific explanation.	Mark Thomas comments on Draft Documentation	12/22/2002	Additional text added to explain that these are terminators.
316	In the introductory description a "market package" is described as providing a "transportation service". Transportation service is also identified in the operational concept. It just seems that the terms in the architecture are already complex enough without the addition of the phrase "transportation service". If these terms are not interchangeable, then transportation service needs to be clarified.	Mark Thomas comments on Draft Documentation	12/22/2002	Section 5 refers everything to market packages now. That should be clearer.
317	I like this listing. But, I am left with questions. The projects are described as regional and I'm not sure why? Is this a list of all the projects implied by the architecture, and therefore they are regional? Are there deployments that have been left out because they are not deemed regional? I would like some clarification on this.	Mark Thomas comments on Draft Documentation	12/22/2002	Text added to clarify.
318	Centerpoint Intermodal Facility should interface with the Illinois Gateway, not Indiana Gateway.	Bill Brown email-Nov 27	12/10/2002	Connections changed.
319	Chicago Skyway should interface with the Indiana Toll Road TMC, not Borman TMC.	Bill Brown email-Nov 27	12/10/2002	Connections changed.
320	Chicago DOT TMC should interface with Indiana Toll Road TMC, and Indiana Local TMC, not Borman TMC.	Bill Brown email-Nov 27	12/10/2002	Connections added and deleted.
321	Indiana State Police District Dispatch should not interface with McHenry County and Will County elements	Bill Brown email-Nov 27	12/10/2002	Connections deleted.
322	Indiana County/ Municipal Public Safety Dispatch should not interface with Lake County IL and McHenry County elements	Bill Brown email-Nov 27	12/10/2002	Connections deleted.

	Comments	Source	Completed	Disposition
323	Borman Traffic Management Center should not interface with Chicago 911 Emergency Communications Center, Chicago DOT TMC, Chicago Skyway, Cook County 911 Centers, Cook County TMC, Will County Sheriff Communications Center and Will County TMC.	Bill Brown email-Nov 27	12/10/2002	Connections deleted.
324	Northeastern Illinois 511 System should not be mapped to the Indiana Department of Transportation.	Bill Brown email-Nov 27	12/3/2002	NE Illinois 511 mapped to IDOT Operations
325	Add Bibliography or Reference Section	Doc Review Mtg-12/2	12/22/2002	Section 13- References added
326	Add reference to Gateway Project Arch in Background Section	Doc Review Mtg-12/2	12/10/2002	Done
327	Change Tier I/II description to reference IDOT/CATS leadership	Doc Review Mtg-12/2	12/10/2002	Done
328	Write Section 1.1 Project Overview in past tense	Doc Review Mtg-12/2	12/10/2002	Done
329	Section 1.3- add metrics for region(population, miles of road, etc)	Doc Review Mtg-12/2	12/10/2002	Done
330	Section 1.3- clarify that arch is existing and planned. Also that Metro Planning area includes part of Kendal County, which isnt explicitly covered in current arch, but might be added in the next update.	Doc Review Mtg-12/2	12/10/2002	Done
331	Revise section 2.2 title to be: Requirements of the FHWA Final Rule and FTA Policy on Architecture	Doc Review Mtg-12/2	12/10/2002	Done
332	Table2- add specific examples of academic organizations, area media outlets, and Private ISPs. Delete term Privately Owned from AMTRAK description.	Doc Review Mtg-12/2	12/3/2002	Done
333	Rather than starting stakeholder description with "Agency", begin with City, County, or State as appropriate.	Doc Review Mtg-12/2	12/3/2002	Done
334	Stakeholder names- add "Bureau of" to IDOT Construction, Maintenance, Electrical Operations, and Traffic.	Doc Review Mtg-12/2	12/3/2002	Done

	Comments	Source	Completed	Disposition
335	Delete stakeholder Illinois Dept of Transportation Operations and replace with IDOT Central Bureau of Ops	Doc Review Mtg-12/2	12/3/2002	Done
336	Change stakeholder name to IDOT Division of Traffic Safety	Doc Review Mtg-12/2	12/3/2002	Done
337	Expand stakeholder descriptions that are just a repeat of the stakeholder name (eg. Kane County Div of Trans)	Doc Review Mtg-12/2	12/3/2002	Done
338	Spell out NITCD in stakeholder name.	Doc Review Mtg-12/2	12/3/2002	Done
339	Reorganize Ops Concept around Regional Transportation Services (e.g. Traveler information, freeway management) and add paragraphs before table describing each area (including some general discussion of relationships).	Doc Review Mtg-12/2	12/22/2002	Section reorganized around transportation service areas.
340	Add under Ops Concept for IDOT Dist 1 Elec Ops that it will: Coordinate collection and distribution of video on all IDOT systems (not just Kennedy).	Doc Review Mtg-12/2	12/18/2002	Done
341	In Ops Concept Table Change wording of Traffic Signal Control bulle to : "Interconnect with signal systems operated by..."	Doc Review Mtg-12/2	12/17/2002	Change made.
342	In section 4.2 add description of where various "Coms" occur(e.g. SouthCom)	Doc Review Mtg-12/2	12/17/2002	Change made.
343	Table 4: CTA ATSS- add reference to rail stations.	Doc Review Mtg-12/2	12/3/2002	Done
344	Table 4: CTA Businfo Sys--Change description to: Bus Information system that provides bus arrival information for CTA buses to BusInfo signs.	Doc Review Mtg-12/2	12/3/2002	Done
345	Table 4: CTA CC-- add sentence "This includes CTA Hub that will feed the Illinois Transit Hub.", plus spell out RSMS	Doc Review Mtg-12/2	12/3/2002	Done
346	Table 4: GCM Corridor Coalition elements- change stakeholder to IDOT ITS Program Office. Include connection to GCM CC in description.	Doc Review Mtg-12/2	12/22/2002	Stakeholder change made

	Comments	Source	Completed	Disposition
347	Table 4: element should be--IDOT District 1 Bureau of Traffic-Expressway Operations Unit. Add reference to expressway in description.	Doc Review Mtg-12/2	12/3/2002	Done
348	Table 4: Add reference to providing info to Ill Gateway to Com Center, TSC, and Expressway Ops Unit.	Doc Review Mtg-12/2	12/3/2002	Done
349	Table 4: Mention that TSC will host Ill Gateway in future. Change status of Ill Gateway to Planned.	Doc Review Mtg-12/2	12/3/2002	Done
350	Table 4: change *999 description to "A private based cellular emergency system provided by contract to ISTHA and IDOT which covers the City of Chicago and surrounding 6 counties."	Doc Review Mtg-12/2	12/3/2002	Done
351	Table 4: Lake County TMC/ Roadside Equipment- spell out RWIS and add environmental sensors to list of roadside equipment.	Doc Review Mtg-12/2	12/3/2002	Done
352	Table 4: Metra ATSS should be Metra Passenger Information Display Sys with the following description:Metra Passenger Information Display System (PIDS) is part of the regional RTA initiative for better traveler information.	Doc Review Mtg-12/2	12/3/2002	Done
353	Table 4: Metra CCF- status is existing and delete the last sentence of description	Doc Review Mtg-12/2	12/3/2002	Done
354	Table 4: Metra TIMS- include the following sentence--This includes the Metra Hub that will feed the Illinois Transit Hub.	Doc Review Mtg-12/2	12/3/2002	Done
355	Table 4: Pace IBS- add the following sentence to description: This includes the Pace Hub that will feed the Illinois Transit Hub.	Doc Review Mtg-12/2	12/3/2002	Done
356	Table 4: Illinois Transit Hub. Add the following to the description: This includes a messaging subsystem that can provide multimodal information to BusInfo, ATSS, and InfoTrans signs. Serves as information exchange conduit with Illinois Gateway.	Doc Review Mtg-12/2	12/3/2002	Done

	Comments	Source	Completed	Disposition
357	Table 4: Delete Regional BusInfo Signs element. Replace with element Pace BusInfo Sys, which will interface to Pace IBS and to new element Pace BusInfo Signs.	Doc Review Mtg-12/2	12/8/2002	Replaced Regonal Bus Info Signs with Pace BusInfo Signs. Added Pace Businfo Sys Element and connections.
358	Table 4: Status of RTA InfoSigns should be Planned	Doc Review Mtg-12/2	12/7/2002	Done
359	Table 4: RTA IPS. Change description to: Itinerary Planning System is the web based interface of the TIC, providing interfaces to users and the RTA Kiosk.	Doc Review Mtg-12/2	12/7/2002	Done
360	Table 4: Vehicles have status Existing	Doc Review Mtg-12/2	12/7/2002	Done
361	Metra TIMS should have an interface to Metra Trains for next stop annunciation and to PIDS.	Doc Review Mtg-12/2	12/8/2002	Metra Train interface added. PIDS already there.
362	RTA InfoTrans signs should have an interface only to Ill Transit Hub.	Doc Review Mtg-12/2	12/7/2002	Checked- is correct.
363	Section 4.2- add number of ISPs to list	Doc Review Mtg-12/2	12/22/2002	Done
364	Table 5: Ill Transit Hub should be mapped to ADMS. NE Ill 511 system should be mapped to ISP, not Traveler Info Phone Sys	Doc Review Mtg-12/2	12/7/2002	Both Changes made
365	Add Element Illinois DOT Info- existing phone system (map to ISP) that gets info from Com Center and TSC.	Doc Review Mtg-12/2	12/7/2002	Done
366	Retitle Section 5 to Market Packages	Doc Review Mtg-12/2	12/22/2002	Done
367	Table 6: Add TSC to AD1. Add Ill Gateway and Gateway Central to APTS7 Multimodal Coord. Add Ill Transit Hub to ATMS6. Add Gateways to EM1.	Doc Review Mtg-12/2	12/7/2002	Done
368	Table 6: Add ISTHA Dispatch Center to EM4 and add new element- Highway Emergency Lane Patrol (HELP) Vehicles. Stakeholder is ISTHA. Add to EM4	Doc Review Mtg-12/2	12/7/2002	Added element and connected to ISTHA Dispatch.

	Comments	Source	Completed	Disposition
369	Include functional requirements table as appendix.	Doc Review Mtg-12/2	12/22/2002	Done
370	Add Status of Standards- published, under dev, etc.	Doc Review Mtg-12/2	12/22/2002	Done
371	Add text to standards discussion to mention regional guidelines for Corba and Location Referencing.	Doc Review Mtg-12/2	12/22/2002	Done
372	Under Regional Projects- add a reference to SEDP Update and identify source of project information.	Doc Review Mtg-12/2	12/22/2002	Done
373	Comments on Market Package Diagrams- under ATMS01- TSC- III Gateway should list as an ISP. Under APTS2 CTACC- III Transit Hub should list as an ISP.	Doc Review Mtg-12/2	12/8/2002	Changed in database and in Market Package diagrams
374	Figure 4 Example Interface- should have traffic data going from TSC to CTACC.	Doc Review Mtg-12/2	12/8/2002	Added road network conditions from TSC to CTACC

Architecture changes identified during the 2007 update are contained in a separate document entitled “Technical Memorandum #1: Technical Review of Existing Documentation.”

Appendix B: Architecture Interfaces

Regional ITS Architecture Interfaces

Element	Interfaces With
999 Cellular Express Line	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois Gateway
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	ISTHA Computer Aided Dispatch Center
	ISTHA TMC (TIMS)
Academic/Research Organizations Data Warehouse	Arterial Performance Monitoring System
	Chicago Airports
	Chicago Transit Authority Data Archive
	CMAP Northeastern Illinois Regional Data Archive
	Gateway Central
	GCM Data Archive
	IDOT District 1 ComCenter
	Illinois Gateway
	Illinois Transit Hub
	University of Illinois ICT Data Archive
AMTRAK Rail	City of Chicago TMC
	IDOT District 1 ComCenter
	Illinois Transit Hub
Arterial Performance Monitoring System	Academic/Research Organizations Data Warehouse
	City of Chicago TMC
	Gateway Central
	Illinois Gateway
	Illinois Transit Hub
	ISTHA TMC (TIMS)
Borman Traffic Management Center	IDOT District 1 ComCenter
	Illinois State Police District 15 Operations Desk
	ISTHA TMC (TIMS)
Chicago Airport Parking Systems	City of Chicago DOT Transportation Website
	City of Chicago TMC
	Cook County TMC
	IDOT District 1 ComCenter
	Illinois Gateway
	Private ISPs - Travel Information Services
	Regional Transportation Authority Travel Information Center (TIC)
	Satellite TMC Midway Airport
Satellite TMC OHare Airport	

Element	Interfaces With
	Vehicles
Chicago Airports	Academic/Research Organizations Data Warehouse
	Chicago Transit Authority Control Center
	City of Chicago DOT Transportation Website
	CMAP Northeastern Illinois Regional Data Archive
	IDOT District 1 ComCenter
	Illinois Gateway
	Regional Transportation Authority Travel Information Center (TIC)
Chicago Bureau of Convention and Tourism Database	City of Chicago 311 Center
	Illinois Gateway
	Illinois Transit Hub
	Private ISPs - Travel Information Services
	Regional Transportation Authority Travel Information Center (TIC)
Chicago Park District Parking Management System	City of Chicago DOT Transportation Website
	City of Chicago TMC
	IDOT District 1 ComCenter
	Illinois Gateway
	Illinois Transit Hub
	MPEA Parking Management
	Private ISPs - Travel Information Services
	Vehicles
Chicago Transit Authority ATSS System	Chicago Transit Authority Active Transit Station Signs
	Chicago Transit Authority Control Center
	Chicago Transit Authority Data Archive
	RTA Multimodal Trip Planner
Chicago Transit Authority Bus Tracker Website	Chicago Transit Authority Control Center
Chicago Transit Authority Bus Vehicles	Chicago Transit Authority Control Center
	Chicago Transit Authority Garages
	City of Chicago OEMC Field Equipment
	Cook County Highway Department Field Equipment
	IDOT District 1 Bureau of Arterial Operations Field Equipment
	Lake County Field Equipment
Chicago Transit Authority BusInfo System	Chicago Transit Authority BusInfo Signs
	Chicago Transit Authority Control Center
	Chicago Transit Authority Data Archive
	Illinois Transit Hub
	Regional Transportation Authority Travel Information Center (TIC)
	RTA Multimodal Information Kiosks

Element	Interfaces With
	RTA Multimodal Trip Planner
Chicago Transit Authority Control Center	Chicago Airports
	Chicago Transit Authority ATSS System
	Chicago Transit Authority Bus Tracker Website
	Chicago Transit Authority Bus Vehicles
	Chicago Transit Authority BusInfo System
	Chicago Transit Authority Data Archive
	Chicago Transit Authority Rapid Transit Vehicles
	Chicago Transit Authority Security Equipment
	City of Chicago 911 CAD
	City of Chicago Operations Center (OC)
	City of Chicago TMC
	Cook County EOC
	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County EOC
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois Transit Hub
	Independent School District Dispatch
	InfoTrans Signs
	Lake County EOC
	Lake County PASSAGE TMC
	Pace Control Center (IBS)
	Regional Transportation Authority Travel Information Center (TIC)
	Satellite TMC Midway Airport
	Satellite TMC OHare Airport
Statewide Emergency Operations Center	
Weather Services	
Chicago Transit Authority Data Archive	Academic/Research Organizations Data Warehouse
	Chicago Transit Authority ATSS System
	Chicago Transit Authority Bus Tracker Website
	Chicago Transit Authority BusInfo System
	Chicago Transit Authority Control Center
	GCM Data Archive
	Illinois Transit Hub
Chicago Transit Authority Garages	Chicago Transit Authority Bus Vehicles
Chicago Transit Authority Parking Management Guidance System	Chicago Transit Authority Control Center
	Illinois Transit Hub
	Vehicles

Element	Interfaces With
Chicago Transit Authority Rapid Transit Vehicles	Chicago Transit Authority Control Center
Chicago Transit Authority Security Equipment	Chicago Transit Authority Control Center
City of Chicago 311 Center	City of Chicago 911 CAD
City of Chicago 911 CAD	Chicago Transit Authority Control Center
	City of Chicago 311 Center
	City of Chicago DSS Bureau of Electricity Signal Maintenance
	City of Chicago DSS Bureau of Street Operations Dispatch
	City of Chicago Operations Center (OC)
	City of Chicago Skyway Operations
	City of Chicago TMC
	Coast Guard Dispatch
	Cook County Sheriff Communications Center
	DuPage County EOC
	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	IDOT Emergency Traffic Patrol (ETP)
	Illinois Gateway
	Illinois Local Accident Reporting System
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	Independent School District Dispatch
	Indiana DOT Arterial TMC
	Indiana State Police Dispatch
	Indiana Toll Road Operations Center
	Media
	Pace Control Center (IBS)
	Regional Hospitals
	Satellite TMC Midway Airport
	Satellite TMC OHare Airport
	Trucking Distribution Centers
	Utility Company Operations
	Vehicles
Weather Services	
City of Chicago Department of Aviation Field Equipment	Satellite TMC OHare Airport
City of Chicago DOT Roadway Maintenance	Chicago Transit Authority Control Center
	City of Chicago DOT Vehicles
	City of Chicago DSS Bureau of Electricity Signal Maintenance
	City of Chicago DSS Bureau of Street Operations

Element	Interfaces With
	Dispatch City of Chicago DSS Bureau of Traffic Services Dispatch City of Chicago TMC Cook County Highway Department Construction Bureau Operations Cook County Highway Department Maintenance Bureau Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter Illinois Gateway Independent School District Dispatch Metra Consolidated Control Facility Weather Services
City of Chicago DOT Transportation Website	City of Chicago DOT Traveler Information Kiosks IDOT District 1 Traffic Systems Center (TSC) Media User Personal Computing Devices
City of Chicago DOT Traveler Information Kiosks	City of Chicago DOT Transportation Website City of Chicago TMC
City of Chicago DOT Vehicles	City of Chicago DOT Roadway Maintenance
City of Chicago DSS Bureau of Electricity Signal Maintenance	City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Street Operations Dispatch City of Chicago DSS Bureau of Traffic Services Dispatch City of Chicago TMC Cook County Highway Department Maintenance Bureau Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Municipal/Township Maintenance Operations Private Sector Maintenance Contractor Operations
City of Chicago DSS Bureau of Street Operations Dispatch	City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago DSS Bureau of Traffic Services

Element	Interfaces With
	Dispatch City of Chicago DSS Vehicles City of Chicago Incident Center (CIC) City of Chicago Operations Center (OC) City of Chicago TMC Cook County Highway Department Maintenance Bureau Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management ISTHA Maintenance and Construction Municipal/Township Maintenance Operations Weather Services
City of Chicago DSS Bureau of Traffic Services Dispatch	City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago DSS Bureau of Street Operations Dispatch City of Chicago Skyway Operations City of Chicago TMC IDOT District 1 ComCenter Private Tow and Recovery Operations Weather Services
City of Chicago DSS Field Equipment	City of Chicago TMC
City of Chicago DSS Vehicles	City of Chicago DSS Bureau of Street Operations Dispatch
City of Chicago Incident Center (CIC)	City of Chicago DSS Bureau of Street Operations Dispatch
City of Chicago OEMC Field Equipment	City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago TMC Municipal Public Safety Vehicles Vehicles
City of Chicago Operations Center (OC)	Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago DSS Bureau of Street Operations Dispatch Cook County EOC DuPage County EOC IDOT District 1 ComCenter Illinois Gateway Media Metra GPS Center (TIMS) Municipal EMCs Pace Control Center (IBS) Statewide Emergency Operations Center

Element	Interfaces With
City of Chicago Skyway Field Equipment	City of Chicago Skyway Operations Vehicles
City of Chicago Skyway Operations	City of Chicago 911 CAD City of Chicago DSS Bureau of Traffic Services Dispatch City of Chicago Skyway Field Equipment City of Chicago Skyway Toll Plaza City of Chicago TMC IDOT District 1 ComCenter Illinois Gateway Indiana DOT Arterial TMC Indiana Toll Road Operations Center Media
City of Chicago Skyway Toll Plaza	City of Chicago Skyway Operations Vehicles
City of Chicago TMC	AMTRAK Rail Arterial Performance Monitoring System Chicago Airport Parking Systems Chicago Park District Parking Management System Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago DOT Transportation Website City of Chicago DOT Traveler Information Kiosks City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago DSS Bureau of Street Operations Dispatch City of Chicago DSS Bureau of Traffic Services Dispatch City of Chicago DSS Field Equipment City of Chicago OEMC Field Equipment City of Chicago Skyway Operations Cook County Highway Department Construction Bureau Operations Cook County Highway Department Maintenance Bureau Operations Cook County Sheriff Communications Center Cook County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway

Element	Interfaces With
	Independent School District Dispatch Indiana DOT Arterial TMC Indiana Toll Road Operations Center Mayors Office of Special Events Media Metra Consolidated Control Facility MPEA Parking Management Municipal TMCs Pace Control Center (IBS) Private ISPs - Travel Information Services Private Parking Lots Rail Freight Operations RTA Multimodal Information Kiosks Satellite TMC Midway Airport Satellite TMC OHare Airport Weather Services
CMAP Northeastern Illinois Regional Data Archive	Academic/Research Organizations Data Warehouse Chicago Airports Illinois Gateway Illinois Transit Hub
Coast Guard Dispatch	City of Chicago 911 CAD Cook County Sheriff Communications Center Grundy County 911 Center IDOT District 1 ComCenter Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Lake County Communications Center Municipal Public Safety Dispatch Will County Sheriff Communications Center
Commercial Vehicles	CVO Crash Reporting (MCSAP) CVO Inspection Reporting (ASPEN) Hazmat Management and Cleanup IDOT CVO Inspection Facility IDOT Weigh Stations Trucking Distribution Centers
Cook County EOC	Chicago Transit Authority Control Center City of Chicago Operations Center (OC) Cook County Sheriff Communications Center DuPage County EOC IDOT District 1 ComCenter Illinois Gateway

Element	Interfaces With
	Media
	Metra Consolidated Control Facility
	Pace Control Center (IBS)
Cook County Highway Department Construction Bureau Operations	City of Chicago DOT Roadway Maintenance
	City of Chicago TMC
	Cook County Sheriff Communications Center
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 Bureau of Construction
	IDOT District 1 ComCenter
	Illinois Gateway
	Lake County Highway Construction Operations
Cook County Highway Department Field Equipment	Cook County TMC
Cook County Highway Department Maintenance Bureau Operations	Chicago Transit Authority Control Center
	City of Chicago DOT Roadway Maintenance
	City of Chicago DSS Bureau of Electricity Signal Maintenance
	City of Chicago DSS Bureau of Street Operations Dispatch
	City of Chicago TMC
	Cook County Maintenance Vehicles
	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County Maintenance Operations
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 Bureau of Construction
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Kane County Maintenance Operations
	Lake County Highway Maintenance Operations
	Metra Consolidated Control Facility
	Municipal TMCs
	Pace Control Center (IBS)
	Rail Freight Operations
	Satellite TMC OHare Airport
	Weather Services
	Will County Maintenance Operation
Cook County Maintenance Vehicles	Cook County Highway Department Maintenance Bureau Operations
Cook County Sheriff Communications Center	Chicago Transit Authority Control Center
	City of Chicago 911 CAD

Element	Interfaces With
	City of Chicago TMC Coast Guard Dispatch Cook County EOC Cook County TMC DuPage County EOC DuPage County Sheriff Communications Center DuPage County TMC Hazmat Management and Cleanup IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Independent School District Dispatch Kane County 911 Center Lake County Communications Center Lake County PASSAGE TMC Media Metra Consolidated Control Facility Municipal Public Safety Dispatch Pace Control Center (IBS) Private Tow and Recovery Operations Regional Hospitals Regional Paratransit Dispatch Satellite TMC Midway Airport Satellite TMC OHare Airport Trucking Distribution Centers Vehicles Weather Services Will County Sheriff Communications Center Will County TMC
Cook County TMC	Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago TMC Cook County Highway Department Field Equipment Cook County Highway Department Maintenance Bureau Operations Cook County Sheriff Communications Center DuPage County Sheriff Communications Center

Element	Interfaces With
	DuPage County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Independent School District Dispatch Kane County 911 Center Kane County TMC Lake County Communications Center Lake County PASSAGE TMC Metra Consolidated Control Facility Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Satellite TMC Midway Airport Satellite TMC OHare Airport Weather Services Will County TMC
CVO Crash Reporting (MCSAP)	Commercial Vehicles
CVO Inspection Reporting (ASPEN)	Commercial Vehicles
DuPage County EOC	Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago Operations Center (OC) Cook County EOC Cook County Sheriff Communications Center DuPage County Maintenance Operations DuPage County Sheriff Communications Center DuPage County TMC Hazmat Management and Cleanup IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk ISTHA Computer Aided Dispatch Center Kane County 911 Center Kane County EOC Kane County TMC Lake County Communications Center Lake County EOC McHenry County EOC McHenry County Sheriff Dispatch

Element	Interfaces With
	Media Metra Consolidated Control Facility Municipal EMCs Municipal Public Safety Dispatch Other County 911 Centers Other County EOCs Pace Control Center (IBS) Private Tow and Recovery Operations Satellite TMC OHare Airport Statewide Emergency Operations Center Trucking Distribution Centers Weather Services Will County EOC Will County Sheriff Communications Center Wisconsin Municipal Public Safety
DuPage County Field Equipment	DuPage County Maintenance Operations DuPage County TMC
DuPage County Maintenance Operations	Chicago Transit Authority Control Center Cook County Highway Department Maintenance Bureau Operations DuPage County EOC DuPage County Field Equipment DuPage County Sheriff Communications Center DuPage County TMC IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois State Police Dispatch (Districts 2, 5 and Chicago) ISTHA Maintenance and Construction Kane County EOC Kane County Maintenance Operations Municipal Public Safety Dispatch Municipal TMCs Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Rail Freight Operations Satellite TMC OHare Airport Weather Services

Element	Interfaces With
	Will County Maintenance Operation
	Will County TMC
DuPage County Sheriff Communications Center	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County EOC
	DuPage County TMC
	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	Illinois Gateway
	Illinois Local Accident Reporting System
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Independent School District Dispatch
	Kane County 911 Center
	Kane County TMC
	Kendall County 911 Center
	Media
	Municipal Public Safety Dispatch
	Regional Hospitals
	Trucking Distribution Centers
	Vehicles
	Will County Sheriff Communications Center
	Will County TMC
DuPage County TMC	Academic/Research Organizations Data Warehouse
	CMAP Northeastern Illinois Regional Data Archive
	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County EOC
	DuPage County Field Equipment
	DuPage County Maintenance Operations
	DuPage County Sheriff Communications Center
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois Gateway
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	Independent School District Dispatch
	ISTHA TMC (TIMS)

Element	Interfaces With
	Kane County 911 Center Kane County EOC Kane County TMC Kendall County 911 Center Media Metra Consolidated Control Facility Municipal EMCs Municipal Public Safety Dispatch Municipal TMCs Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Regional Paratransit Dispatch Utility Company Operations Weather Services Will County Sheriff Communications Center Will County TMC
Gateway Central	Academic/Research Organizations Data Warehouse Gateway Website GCM Data Archive Illinois 511 System Illinois Gateway Indiana Gateway Media Private ISPs - Travel Information Services University of Illinois ICT Data Archive Wisconsin Gateway (MONITOR)
Gateway Website	IDOT Rest Area Kiosks IDOT Transportation Website User Personal Computing Devices
GCM Data Archive	Academic/Research Organizations Data Warehouse Chicago Transit Authority Data Archive Gateway Central IDOT Transportation Website Kane County TMC University of Illinois ICT Data Archive
Great Lakes Training Center	Lake County Communications Center Lake County EOC
Grundy County 911 Center	Coast Guard Dispatch Grundy County Maintenance Operations Hazmat Management and Cleanup

Element	Interfaces With
	IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction Kendall County 911 Center Kendall County TMC Media Municipal Public Safety Dispatch Other County 911 Centers Private Sector Maintenance Contractor Operations Regional Hospitals Trucking Distribution Centers Vehicles Will County Sheriff Communications Center Will County TMC
Grundy County EOC	Grundy County TMC
Grundy County Field Equipment	Grundy County TMC
Grundy County Maintenance Operations Grundy County TMC	Grundy County 911 Center Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Kendall County Maintenance Operations Municipal TMCs Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Weather Services Will County Maintenance Operation CMAP Northeastern Illinois Regional Data Archive

Element	Interfaces With
	Grundy County 911 Center Grundy County EOC Grundy County Field Equipment Grundy County Maintenance Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch Intermodal Facilities ISTHA TMC (TIMS) Kendall County 911 Center Kendall County TMC Media Metra Consolidated Control Facility Municipal EMCs Municipal Public Safety Dispatch Municipal TMCs Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Regional Paratransit Dispatch Utility Company Operations Weather Services Will County Sheriff Communications Center Will County TMC
Hazmat Management and Cleanup	*999 Cellular Express Line City of Chicago 911 CAD Commercial Vehicles Cook County Sheriff Communications Center DuPage County EOC DuPage County Sheriff Communications Center Grundy County 911 Center IDOT District 1 ComCenter Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk ISTHA Computer Aided Dispatch Center Kane County 911 Center

Element	Interfaces With
	Kane County EOC Kendall County 911 Center Lake County Communications Center McHenry County EOC McHenry County Sheriff Dispatch Municipal EMCs Municipal Public Safety Dispatch OHare Air Cargo Terminal Port of Chicago Intermodal Facilities Will County EOC Will County Sheriff Communications Center
Highway Emergency Lane Patrol Vehicles	ISTHA Computer Aided Dispatch Center
IDOT Central Bureau of Operations Field Equipment	IDOT Central Bureau of Operations Roadway and Weather Information System IDOT District 1 ComCenter Weather Services
IDOT Central Bureau of Operations Roadway and Weather Information System	IDOT Central Bureau of Operations Field Equipment IDOT Metro Kiosks IDOT Rest Area Kiosks
IDOT CVO Inspection Facility	Commercial Vehicles
IDOT CVO Permitting - Oversize/Overweight	City of Chicago TMC Cook County TMC DuPage County TMC Grundy County TMC IDOT CVO Inspection Facility IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) IDOT Weigh Stations ISTHA TMC (TIMS) Kane County TMC Kendall County TMC Lake County PASSAGE TMC McHenry County TMC Will County TMC
IDOT District 1 Bureau of Arterial Operations	Chicago Transit Authority Control Center City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago TMC Cook County Highway Department Construction Bureau Operations Cook County Highway Department Maintenance Bureau Operations

Element	Interfaces With
	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County TMC
	Grundy County 911 Center
	Grundy County Maintenance Operations
	Grundy County TMC
	IDOT District 1 Bureau of Arterial Operations Field Equipment
	IDOT District 1 Bureau of Construction
	IDOT District 1 Bureau of Traffic - Expressway Operations Unit
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	IDOT District 1 Traffic Systems Center (TSC)
	IDOT Transportation Website
	Illinois Gateway
	Illinois GIS Transportation Coalition
	Independent School District Dispatch
	Indiana DOT Arterial TMC
	Intermodal Facilities
	ISTHA Maintenance and Construction
	ISTHA TMC (TIMS)
	Kane County 911 Center
	Kane County Maintenance Operations
	Kane County TMC
	Kendall County 911 Center
	Kendall County Maintenance Operations
	Lake County Communications Center
	Lake County Highway Maintenance Operations
	Lake County PASSAGE TMC
	McHenry County Maintenance Operations
	McHenry County Sheriff Dispatch
	McHenry County TMC
	Metra Consolidated Control Facility
	Municipal TMCs
	Municipal/Township Maintenance Operations
	Pace Control Center (IBS)
	Private Sector Maintenance Contractor Operations
	Rail Freight Operations
	Satellite TMC Midway Airport
	Satellite TMC OHare Airport
	South Suburban Airport TMC
	Weather Services

Element	Interfaces With
	Will County Maintenance Operation Will County Sheriff Communications Center Will County TMC
IDOT District 1 Bureau of Arterial Operations Field Equipment	IDOT District 1 Bureau of Arterial Operations IDOT District 1 Maintenance Management Municipal Public Safety Vehicles Vehicles
IDOT District 1 Bureau of Construction	City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago TMC Cook County Highway Department Construction Bureau Operations Cook County Highway Department Maintenance Bureau Operations DuPage County Maintenance Operations Grundy County Maintenance Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Maintenance Yards IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois GIS Transportation Coalition ISTHA Maintenance and Construction Kane County Construction Operations Kendall County Maintenance Operations Lake County Highway Construction Operations Lake County Highway Maintenance Operations McHenry County Maintenance Operations Media Metra Consolidated Control Facility Weather Services Will County Maintenance Operation Will County TMC
IDOT District 1 Bureau of Traffic - Expressway Operations Unit	Borman Traffic Management Center City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago TMC Cook County Sheriff Communications Center Cook County TMC DuPage County Sheriff Communications Center

Element	Interfaces With
	DuPage County TMC Grundy County Maintenance Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) IDOT Transportation Website Illinois Gateway Illinois GIS Transportation Coalition Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch ISTHA TMC (TIMS) Kendall County Maintenance Operations Kendall County TMC Municipal Public Safety Dispatch Will County Maintenance Operation Will County TMC
IDOT District 1 ComCenter	*999 Cellular Express Line Academic/Research Organizations Data Warehouse AMTRAK Rail Borman Traffic Management Center Chicago Airport Parking Systems Chicago Park District Parking Management System Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago DSS Bureau of Street Operations Dispatch City of Chicago DSS Bureau of Traffic Services Dispatch City of Chicago Operations Center (OC) City of Chicago Skyway Operations City of Chicago TMC Coast Guard Dispatch Cook County EOC Cook County Highway Department Construction Bureau Operations Cook County Highway Department Maintenance Bureau Operations

Element	Interfaces With
	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County EOC
	DuPage County Maintenance Operations
	DuPage County Sheriff Communications Center
	DuPage County TMC
	Grundy County 911 Center
	Grundy County Maintenance Operations
	Grundy County TMC
	Hazmat Management and Cleanup
	IDOT Central Bureau of Operations Field Equipment
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 Bureau of Construction
	IDOT District 1 Bureau of Traffic - Expressway Operations Unit
	IDOT District 1 ComCenter Field Equipment
	IDOT District 1 Maintenance Management
	IDOT District 1 Maintenance Yards
	IDOT District 1 Traffic Systems Center (TSC)
	IDOT District 1 Traffic Systems Center Field Equipment
	IDOT Emergency Traffic Patrol (ETP)
	IDOT Maintenance Vehicles
	IDOT Transportation Website
	Illinois DOT Info
	Illinois Gateway
	Illinois GIS Transportation Coalition
	Illinois Local Accident Reporting System
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	Independent School District Dispatch
	Indiana County/ Municipal Public Safety Dispatch
	Indiana State Police Dispatch
	Intermodal Facilities
	ISTHA Computer Aided Dispatch Center
	ISTHA Maintenance and Construction
	ISTHA TMC (TIMS)
	Kane County 911 Center
	Kane County EOC
	Kane County Maintenance Operations
	Kane County TMC
	Kendall County 911 Center

Element	Interfaces With
	Kendall County Maintenance Operations Kendall County TMC Lake County Communications Center Lake County EOC Lake County Highway Construction Operations Lake County Highway Maintenance Operations Lake County PASSAGE TMC McHenry County EOC McHenry County Maintenance Operations McHenry County Sheriff Dispatch McHenry County TMC Media Metra Consolidated Control Facility MPEA Parking Management Municipal EMCs Municipal Public Safety Dispatch Municipal/Township Maintenance Operations Neighboring Airports Pace Control Center (IBS) Private ISPs - Travel Information Services Private Sector Maintenance Contractor Operations Private Tow and Recovery Operations Regional Hospitals Regional Paratransit Dispatch Satellite TMC Midway Airport Satellite TMC OHare Airport South Suburban Airport TMC Statewide Emergency Operations Center Trucking Distribution Centers Utility Company Operations Weather Services Will County EOC Will County Maintenance Operation Will County Sheriff Communications Center Will County TMC WisDOT Statewide Traffic Operations Center
IDOT District 1 ComCenter Field Equipment	IDOT District 1 ComCenter IDOT District 1 Maintenance Management Vehicles
IDOT District 1 Maintenance Management	City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago DSS Bureau of Street Operations

Element	Interfaces With
	Dispatch
	City of Chicago TMC
	Cook County Highway Department Maintenance Bureau Operations
	Cook County Sheriff Communications Center
	Cook County TMC
	DuPage County Maintenance Operations
	DuPage County Sheriff Communications Center
	DuPage County TMC
	Grundy County 911 Center
	Grundy County Maintenance Operations
	Grundy County TMC
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 Bureau of Construction
	IDOT District 1 Bureau of Traffic - Expressway Operations Unit
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Yards
	IDOT District 1 Traffic Systems Center (TSC)
	IDOT Maintenance Vehicles
	Illinois Gateway
	Illinois GIS Transportation Coalition
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	ISTHA Maintenance and Construction
	Kane County 911 Center
	Kane County Construction Operations
	Kane County Maintenance Operations
	Kendall County 911 Center
	Kendall County Maintenance Operations
	Kendall County TMC
	Lake County Communications Center
	Lake County Highway Maintenance Operations
	Lake County PASSAGE TMC
	McHenry County Maintenance Operations
	McHenry County TMC
	Media
	Metra Consolidated Control Facility
	Municipal Public Safety Dispatch
	Private Sector Maintenance Contractor Operations
	Rail Freight Operations
	Weather Services

Element	Interfaces With
	Will County Maintenance Operation Will County Sheriff Communications Center Will County TMC
IDOT District 1 Maintenance Yards	IDOT District 1 Bureau of Construction IDOT District 1 ComCenter IDOT District 1 Maintenance Management
IDOT District 1 Traffic Systems Center (TSC)	Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago DOT Transportation Website City of Chicago TMC Cook County Highway Department Maintenance Bureau Operations Cook County TMC DuPage County Maintenance Operations DuPage County TMC Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center Field Equipment IDOT Emergency Traffic Patrol (ETP) Illinois DOT Info Illinois Gateway Illinois GIS Transportation Coalition Illinois State Police Dispatch (Districts 2, 5 and Chicago) Independent School District Dispatch ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kane County TMC Kendall County TMC Lake County PASSAGE TMC Media Metra Consolidated Control Facility Private ISPs - Travel Information Services Satellite TMC Midway Airport Satellite TMC OHare Airport Trucking Distribution Centers Weather Services

Element	Interfaces With
	Will County TMC
	WisDOT Statewide Traffic Operations Center
IDOT District 1 Traffic Systems Center Field Equipment	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	IDOT District 1 Traffic Systems Center (TSC)
	Vehicles
IDOT Emergency Traffic Patrol (ETP)	City of Chicago 911 CAD
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	IDOT Emergency Traffic Patrol Vehicles
	Illinois Gateway
	Illinois GIS Transportation Coalition
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
IDOT Emergency Traffic Patrol Vehicles	IDOT District 1 ComCenter
	IDOT Emergency Traffic Patrol (ETP)
IDOT Maintenance Vehicles	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	IDOT District 1 Maintenance Yards
IDOT Metro Kiosks	IDOT Central Bureau of Operations Roadway and Weather Information System
	Illinois Gateway
	Regional Ridesharing and Vanpooling
IDOT Rest Area Kiosks	Gateway Website
	IDOT Central Bureau of Operations Roadway and Weather Information System
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
IDOT Transportation Website	Gateway Website
	GCM Data Archive
	IDOT District 1 ComCenter
IDOT Weigh Stations	Commercial Vehicles
Illinois Environmental Protection Agency (EPA)	Illinois Gateway
Illinois EOSS/ CVISN Web Site	City of Chicago 911 CAD
	City of Chicago TMC
	Cook County TMC
	DuPage County Sheriff Communications Center
	DuPage County TMC
	Grundy County 911 Center
	Grundy County TMC
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)

Element	Interfaces With
	Illinois State Police District 15 Operations Desk Kane County TMC Kendall County TMC Lake County Communications Center Lake County PASSAGE TMC McHenry County Sheriff Dispatch McHenry County TMC Municipal Public Safety Dispatch Will County Sheriff Communications Center Will County TMC
Illinois Gateway	Academic/Research Organizations Data Warehouse Arterial Performance Monitoring System Chicago Airport Parking Systems Chicago Bureau of Convention and Tourism Database Chicago Park District Parking Management System City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Electricity Signal Maintenance City of Chicago Operations Center (OC) City of Chicago Skyway Operations City of Chicago TMC CMAP Northeastern Illinois Regional Data Archive Coast Guard Dispatch Cook County EOC Cook County Highway Department Construction Bureau Operations Cook County Sheriff Communications Center Cook County TMC DuPage County EOC DuPage County Sheriff Communications Center DuPage County TMC Gateway Central Grundy County 911 Center Grundy County Maintenance Operations Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter

Element	Interfaces With
	IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) IDOT Emergency Traffic Patrol (ETP) IDOT Metro Kiosks Illinois 511 System Illinois Environmental Protection Agency (EPA) Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Illinois Transit Hub Independent School District Dispatch Intermodal Facilities ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kane County 911 Center Kane County EOC Kane County TMC Kendall County 911 Center Kendall County TMC Lake County Communications Center Lake County EOC Lake County PASSAGE TMC McHenry County EOC McHenry County Sheriff Dispatch McHenry County TMC Media MPEA Parking Management Municipal EMCs Municipal Public Safety Dispatch Municipal TMCs Neighboring Airports Satellite TMC Midway Airport Satellite TMC OHare Airport South Suburban Airport TMC Statewide Emergency Operations Center Will County EOC Will County Maintenance Operation Will County Sheriff Communications Center Will County TMC
Illinois GIS Transportation Coalition	IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway

Element	Interfaces With
	Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) IDOT Emergency Traffic Patrol (ETP)
Illinois Single State Registration System	IDOT CVO Inspection Facility IDOT Weigh Stations Illinois State Police Vehicles
Illinois State Police Dispatch (Districts 2, 5 and Chicago)	*999 Cellular Express Line City of Chicago 911 CAD Coast Guard Dispatch Cook County Highway Department Maintenance Bureau Operations Cook County Sheriff Communications Center DuPage County Maintenance Operations DuPage County Sheriff Communications Center Grundy County 911 Center Grundy County Maintenance Operations Grundy County TMC Hazmat Management and Cleanup IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) IDOT Emergency Traffic Patrol (ETP) IDOT Rest Area Kiosks Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Vehicles Independent School District Dispatch Indiana State Police Dispatch Kane County 911 Center Kane County Maintenance Operations Kendall County 911 Center Kendall County Maintenance Operations Kendall County TMC Lake County Communications Center Lake County Highway Maintenance Operations Lake County PASSAGE TMC McHenry County Maintenance Operations McHenry County Sheriff Dispatch McHenry County TMC Media Private Tow and Recovery Operations

Element	Interfaces With
	Regional Hospitals Statewide Emergency Operations Center Trucking Distribution Centers Vehicles Weather Services Will County Maintenance Operation Will County Sheriff Communications Center Will County TMC Wisconsin State Patrol District 2 Dispatch
Illinois State Police District 15 Operations Desk	*999 Cellular Express Line Borman Traffic Management Center City of Chicago 911 CAD DuPage County EOC DuPage County TMC Grundy County 911 Center Grundy County TMC Hazmat Management and Cleanup IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Vehicles Indiana State Police Dispatch ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kane County 911 Center Kendall County 911 Center Kendall County TMC Lake County Communications Center Lake County PASSAGE TMC Media Private Tow and Recovery Operations Regional Hospitals Statewide Emergency Operations Center Trucking Distribution Centers Vehicles Weather Services Will County Sheriff Communications Center Will County TMC Wisconsin State Patrol District 2 Dispatch
Illinois State Police Vehicles	Illinois State Police Dispatch (Districts 2, 5 and Chicago)

Element	Interfaces With
	Illinois State Police District 15 Operations Desk
Illinois Transit Hub	Academic/Research Organizations Data Warehouse
	AMTRAK Rail
	Arterial Performance Monitoring System
	Chicago Airports
	Chicago Bureau of Convention and Tourism Database
	Chicago Park District Parking Management System
	Chicago Transit Authority BusInfo System
	Chicago Transit Authority Control Center
	Chicago Transit Authority Data Archive
	Chicago Transit Authority Parking Management Guidance System
	City of Chicago Skyway Operations
	CMAP Northeastern Illinois Regional Data Archive
	Illinois 511 System
	Illinois Gateway
	Independent School District Dispatch
	Media
	Metra Consolidated Control Facility
	Metra Parking Management Guidance System
	Municipal Parking Management Guidance System
	Municipal Transit Operations
	Pace BusInfo System
	Pace Control Center (IBS)
	Pace Data Archive
	Private Bus Dispatch
	Private ISPs - Travel Information Services
	Private Parking Lots
	Public/Non-Profit Paratransit Services
	Regional Paratransit Dispatch
	Regional Ridesharing and Vanpooling
	Regional Transit Asset Management System (RTAMS)
	Regional Transportation Authority Travel Information Center (TIC)
	RTA Multimodal Information Kiosks
	RTA Multimodal Trip Planner
Independent School District Dispatch	Chicago Transit Authority Control Center
	City of Chicago 911 CAD
	Cook County Sheriff Communications Center
	DuPage County Sheriff Communications Center

Element	Interfaces With
	Grundy County 911 Center
	IDOT District 1 ComCenter
	Kane County 911 Center
	Kendall County 911 Center
	Lake County Communications Center
	McHenry County Sheriff Dispatch
	Municipal Public Safety Dispatch
	Municipal Transit Operations
	Pace Control Center (IBS)
	Private Taxi Dispatch
	Weather Services
	Will County Sheriff Communications Center
Indiana County/ Municipal Public Safety Dispatch	IDOT District 1 ComCenter
	Municipal Public Safety Dispatch
	Will County Sheriff Communications Center
	Will County TMC
Indiana DOT Arterial TMC	City of Chicago 911 CAD
	City of Chicago TMC
	IDOT District 1 Bureau of Arterial Operations
	Will County Sheriff Communications Center
	Will County TMC
Indiana Gateway	Gateway Central
Indiana State Police Dispatch	City of Chicago 911 CAD
	IDOT District 1 ComCenter
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	Will County Sheriff Communications Center
	Will County TMC
Indiana Toll Road Operations Center	City of Chicago 911 CAD
	City of Chicago Skyway Operations
	City of Chicago TMC
Intermodal Facilities	CMAP Northeastern Illinois Regional Data Archive
	Grundy County 911 Center
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	Municipal Public Safety Dispatch
	Trucking Distribution Centers
	Will County Sheriff Communications Center
	Will County TMC
ISTHA Computer Aided Dispatch Center	*999 Cellular Express Line
	Chicago Transit Authority Control Center
	DuPage County EOC

Element	Interfaces With
	Grundy County 911 Center Hazmat Management and Cleanup Highway Emergency Lane Patrol Vehicles IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois Local Accident Reporting System Illinois State Police District 15 Operations Desk ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kenosha County Public Safety Dispatch Lake County Communications Center Lake County EOC Lake County PASSAGE TMC Media Pace Control Center (IBS) Private Tow and Recovery Operations Weather Services Will County Sheriff Communications Center Will County TMC Wisconsin State Patrol District 2 Dispatch
ISTHA IPASS Business Center	ISTHA I-Pass Toll Plazas ISTHA TMC (TIMS)
ISTHA I-Pass Toll Plazas	ISTHA IPASS Business Center ISTHA TMC (TIMS) Vehicles
ISTHA Maintenance and Construction	City of Chicago DSS Bureau of Street Operations Dispatch DuPage County Maintenance Operations Grundy County 911 Center IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois State Police District 15 Operations Desk ISTHA Computer Aided Dispatch Center ISTHA Maintenance Vehicle ISTHA TMC (TIMS) Kane County Construction Operations Kenosha County Highway Maintenance Operations Lake County Highway Construction Operations

Element	Interfaces With
	Lake County Highway Maintenance Operations Lake County PASSAGE TMC McHenry County Maintenance Operations Weather Services Will County Sheriff Communications Center Will County TMC
ISTHA Maintenance Vehicle	ISTHA Maintenance and Construction
ISTHA TIMS Kiosks	ISTHA TMC (TIMS)
ISTHA TMC (TIMS)	*999 Cellular Express Line Arterial Performance Monitoring System Borman Traffic Management Center DuPage County TMC Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois State Police District 15 Operations Desk ISTHA Computer Aided Dispatch Center ISTHA IPASS Business Center ISTHA Maintenance and Construction ISTHA TIMS Kiosks ISTHA TMC Field Equipment Kane County Construction Operations Kane County TMC Kendall County TMC Lake County PASSAGE TMC Media Satellite TMC OHare Airport User Personal Computing Devices Weather Services Will County TMC WisDOT Statewide Traffic Operations Center
ISTHA TMC Field Equipment	ISTHA TMC (TIMS) Vehicles
Kane County 911 Center	Cook County Sheriff Communications Center Cook County TMC DuPage County EOC DuPage County Sheriff Communications Center DuPage County TMC Hazmat Management and Cleanup

Element	Interfaces With
	IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch Kane County EOC Kane County Maintenance Operations Kane County TMC Kendall County TMC McHenry County Sheriff Dispatch McHenry County TMC Media Municipal Public Safety Dispatch Other County 911 Centers Regional Hospitals Trucking Distribution Centers Vehicles
Kane County Construction Operations	IDOT District 1 Bureau of Construction IDOT District 1 Maintenance Management ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kane County Maintenance Operations Kane County TMC
Kane County EOC	DuPage County EOC DuPage County Maintenance Operations DuPage County TMC Hazmat Management and Cleanup IDOT District 1 ComCenter Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Kane County 911 Center Kane County Maintenance Operations Kane County TMC Kendall County 911 Center McHenry County EOC McHenry County TMC Media Metra Consolidated Control Facility

Element	Interfaces With
	Municipal EMCs Municipal Public Safety Dispatch Other County EOCs Pace Control Center (IBS) Private Tow and Recovery Operations Statewide Emergency Operations Center Trucking Distribution Centers Weather Services
Kane County Field Equipment	Kane County Maintenance Operations Kane County TMC Vehicles
Kane County Maintenance Operations	Cook County Highway Department Maintenance Bureau Operations DuPage County Maintenance Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois State Police Dispatch (Districts 2, 5 and Chicago) ISTHA Maintenance and Construction Kane County 911 Center Kane County Construction Operations Kane County EOC Kane County Field Equipment Kane County Maintenance Vehicles Kane County TMC Kendall County Maintenance Operations McHenry County Maintenance Operations Media Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Rail Freight Operations Weather Services
Kane County Maintenance Vehicles	Kane County Maintenance Operations
Kane County TMC	Cook County TMC DuPage County Sheriff Communications Center DuPage County TMC GCM Data Archive IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway

Element	Interfaces With
	Independent School District Dispatch ISTHA TMC (TIMS) Kane County 911 Center Kane County Construction Operations Kane County EOC Kane County Field Equipment Kane County Maintenance Operations Kendall County 911 Center Kendall County TMC McHenry County Sheriff Dispatch McHenry County TMC Media Metra Consolidated Control Facility Municipal Public Safety Dispatch Municipal TMCs Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Weather Services
Kendall County 911 Center	DuPage County Sheriff Communications Center DuPage County TMC Grundy County 911 Center Grundy County TMC Hazmat Management and Cleanup IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch Kane County EOC Kane County TMC Kendall County EOC Kendall County Maintenance Operations Other County 911 Centers Regional Hospitals Trucking Distribution Centers Vehicles Will County EOC Will County Sheriff Communications Center Will County TMC

Element	Interfaces With
Kendall County EOC	Kendall County 911 Center
Kendall County Field Equipment	Kendall County TMC
	Metra Wayside Equipment
Kendall County Maintenance Operations	Grundy County Maintenance Operations
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 Bureau of Construction
	IDOT District 1 Bureau of Traffic - Expressway Operations Unit
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Kane County Maintenance Operations
	Kendall County 911 Center
	Kendall County TMC
	Municipal TMCs
	Municipal/Township Maintenance Operations
	Pace Control Center (IBS)
	Private Sector Maintenance Contractor Operations
	Weather Services
	Will County Maintenance Operation
Kendall County TMC	Academic/Research Organizations Data Warehouse
	CMAQ Northeastern Illinois Regional Data Archive
	Grundy County 911 Center
	Grundy County TMC
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois Gateway
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	ISTHA TMC (TIMS)
	Kane County 911 Center
	Kane County TMC
	Kendall County Field Equipment
	Kendall County Maintenance Operations
	Media
	Metra Consolidated Control Facility
	Municipal EMCs
	Municipal Public Safety Dispatch
	Municipal TMCs
Municipal/Township Maintenance Operations	

Element	Interfaces With
	Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Regional Paratransit Dispatch Utility Company Operations Weather Services Will County Sheriff Communications Center Will County TMC
Kenosha County Highway Maintenance Operations	ISTHA Maintenance and Construction Lake County Highway Maintenance Operations
Kenosha County Public Safety Dispatch	ISTHA Computer Aided Dispatch Center Lake County Communications Center Lake County EOC Lake County PASSAGE TMC McHenry County Sheriff Dispatch Municipal Public Safety Dispatch
Kenosha Transit Dispatch	Metra Consolidated Control Facility
Lake County Communications Center	Coast Guard Dispatch Cook County Sheriff Communications Center Cook County TMC DuPage County EOC Great Lakes Training Center Hazmat Management and Cleanup IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch ISTHA Computer Aided Dispatch Center Kenosha County Public Safety Dispatch Lake County EOC Lake County Highway Construction Operations Lake County Highway Maintenance Operations Lake County PASSAGE TMC McHenry County Sheriff Dispatch McHenry County TMC Media Municipal Public Safety Dispatch Municipal TMCs Municipal/Township Maintenance Operations

Element	Interfaces With
	Regional Hospitals Trucking Distribution Centers Vehicles Wisconsin Municipal Public Safety Wisconsin State Patrol District 2 Dispatch
Lake County EOC	Chicago Transit Authority Control Center DuPage County EOC Great Lakes Training Center IDOT District 1 ComCenter Illinois Gateway ISTHA Computer Aided Dispatch Center Kenosha County Public Safety Dispatch Lake County Communications Center Lake County PASSAGE TMC McHenry County EOC Media Metra Consolidated Control Facility Pace Control Center (IBS)
Lake County Field Equipment	Lake County Highway Maintenance Operations Lake County PASSAGE TMC Municipal Public Safety Vehicles
Lake County Highway Construction Operations	Cook County Highway Department Construction Bureau Operations IDOT District 1 Bureau of Construction IDOT District 1 ComCenter Illinois State Police Dispatch (Districts 2, 5 and Chicago) ISTHA Maintenance and Construction ISTHA TMC (TIMS) Lake County Communications Center Lake County Highway Maintenance Operations Lake County PASSAGE TMC Municipal Public Safety Dispatch
Lake County Highway Maintenance Operations	Cook County Highway Department Maintenance Bureau Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois State Police Dispatch (Districts 2, 5 and Chicago) ISTHA Maintenance and Construction Kenosha County Highway Maintenance Operations Lake County Communications Center Lake County Field Equipment

Element	Interfaces With
	Lake County Highway Construction Operations Lake County PASSAGE TMC McHenry County Maintenance Operations Media Municipal Public Safety Dispatch Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Rail Freight Operations Weather Services
Lake County PASSAGE TMC	Chicago Transit Authority Control Center Cook County Sheriff Communications Center Cook County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kenosha County Public Safety Dispatch Lake County Communications Center Lake County EOC Lake County Field Equipment Lake County Highway Construction Operations Lake County Highway Maintenance Operations Lake County PASSAGE Website McHenry County Sheriff Dispatch McHenry County TMC Media Metra Consolidated Control Facility Municipal Public Safety Dispatch Municipal TMCs Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Weather Services Wisconsin State Patrol District 2 Dispatch WisDOT Statewide Traffic Operations Center

Element	Interfaces With
Mayors Office of Special Events	City of Chicago TMC
	Cook County TMC
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois Gateway
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	ISTHA TMC (TIMS)
McHenry County EOC	DuPage County EOC
	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	Illinois Gateway
	Lake County EOC
	McHenry County Maintenance Operations
	McHenry County Sheriff Dispatch
	McHenry County TMC
	Media
	Metra Consolidated Control Facility
	Other County EOCs
	Pace Control Center (IBS)
	Trucking Distribution Centers
	Weather Services
	Wisconsin Municipal Public Safety
McHenry County Field Equipment	McHenry County Maintenance Operations
	McHenry County TMC
McHenry County Maintenance Operations	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Lake County Highway Maintenance Operations
	McHenry County EOC
	McHenry County Field Equipment
	McHenry County Sheriff Dispatch
	McHenry County TMC
	Municipal TMCs
	Municipal/Township Maintenance Operations
	Pace Control Center (IBS)
	Rail Freight Operations
Weather Services	
McHenry County Sheriff Dispatch	DuPage County EOC

Element	Interfaces With
	Hazmat Management and Cleanup IDOT District 1 ComCenter Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Independent School District Dispatch Kane County 911 Center Kane County TMC Kenosha County Public Safety Dispatch Lake County Communications Center Lake County PASSAGE TMC McHenry County EOC McHenry County Maintenance Operations McHenry County TMC Media Other County 911 Centers Regional Hospitals Trucking Distribution Centers Vehicles
McHenry County TMC	IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Independent School District Dispatch Kane County 911 Center Lake County Communications Center McHenry County EOC McHenry County Field Equipment McHenry County Maintenance Operations McHenry County Sheriff Dispatch Media Metra Consolidated Control Facility Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Weather Services Wisconsin Municipal Public Safety Wisconsin State Patrol District 2 Dispatch
Media	City of Chicago 911 CAD City of Chicago Operations Center (OC) City of Chicago TMC Cook County EOC

Element	Interfaces With
	Cook County Sheriff Communications Center DuPage County EOC DuPage County Sheriff Communications Center Gateway Central Grundy County 911 Center Grundy County TMC IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk ISTHA Computer Aided Dispatch Center ISTHA TMC (TIMS) Kane County 911 Center Kane County EOC Kendall County TMC Lake County Communications Center Lake County EOC McHenry County EOC McHenry County Sheriff Dispatch Municipal EMCs Municipal Public Safety Dispatch Will County EOC Will County Sheriff Communications Center
Metra Consolidated Control Facility	City of Chicago 911 CAD City of Chicago Operations Center (OC) City of Chicago TMC Cook County EOC Cook County Sheriff Communications Center Cook County TMC DuPage County EOC DuPage County TMC Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois Transit Hub Kane County EOC Kane County TMC Kendall County TMC Kenosha Transit Dispatch

Element	Interfaces With
	Lake County EOC Lake County PASSAGE TMC McHenry County EOC McHenry County TMC Media Metra GPS Center (TIMS) Metra Public Address System Metra Trains Municipal Public Safety Dispatch Municipal Transit Operations NICTD Dispatch Pace Control Center (IBS) Private Taxi Dispatch Regional Transportation Authority Travel Information Center (TIC) Statewide Emergency Operations Center Water Taxi Service Weather Services Will County EOC Will County TMC
Metra GPS Center (TIMS)	Metra Consolidated Control Facility Metra Parking Management Guidance System Metra Passenger Information Display System Metra Suburban Passenger Information Display Signs Metra Trains Regional Transportation Authority Travel Information Center (TIC)
Metra Maintenance Yards	Metra Trains
Metra Parking Management Guidance System	Illinois Transit Hub Metra Consolidated Control Facility Metra GPS Center (TIMS) Metra PMGS Signs Vehicles
Metra Passenger Information Display System	Metra GPS Center (TIMS) Metra Suburban Passenger Information Display Signs Regional Transportation Authority Travel Information Center (TIC) RTA Multimodal Information Kiosks RTA Multimodal Trip Planner

Element	Interfaces With
Metra Public Address System	Metra Consolidated Control Facility
Metra Rail Operator	Metra Consolidated Control Facility Metra GPS Center (TIMS)
Metra Trains	Metra Consolidated Control Facility Metra GPS Center (TIMS) Metra Maintenance Yards Metra Wayside Equipment
Metra Wayside Equipment	City of Chicago OEMC Field Equipment Cook County Highway Department Field Equipment DuPage County Field Equipment Grundy County Field Equipment IDOT District 1 Bureau of Arterial Operations Field Equipment Kane County Field Equipment Kendall County Field Equipment Lake County Field Equipment McHenry County Field Equipment Will County Field Equipment
MPEA Parking Management	Chicago Park District Parking Management System City of Chicago DOT Transportation Website City of Chicago TMC IDOT District 1 ComCenter Illinois Gateway Private ISPs - Travel Information Services Regional Transportation Authority Travel Information Center (TIC) Vehicles
Municipal EMCs	City of Chicago Operations Center (OC) DuPage County EOC Grundy County TMC Hazmat Management and Cleanup IDOT District 1 ComCenter Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Kane County EOC Kendall County TMC McHenry County EOC Media Municipal Public Safety Dispatch Municipal TMCs

Element	Interfaces With
	Municipal Transit Operations
	Trucking Distribution Centers
Municipal Parking Management Guidance System	Illinois Transit Hub
	Vehicles
Municipal Public Safety Dispatch	City of Chicago 911 CAD
	Coast Guard Dispatch
	Cook County Sheriff Communications Center
	DuPage County EOC
	DuPage County TMC
	Grundy County 911 Center
	Grundy County TMC
	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	Illinois Gateway
	Illinois Local Accident Reporting System
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Independent School District Dispatch
	Indiana County/ Municipal Public Safety Dispatch
	Kane County 911 Center
	Kane County EOC
	Kane County TMC
	Kendall County TMC
	Kenosha County Public Safety Dispatch
	Lake County Communications Center
	Lake County Highway Construction Operations
	Lake County Highway Maintenance Operations
	Lake County PASSAGE TMC
	McHenry County EOC
	Media
	Metra Consolidated Control Facility
	Municipal EMCs
	Municipal TMCs
	Municipal Transit Operations
	Regional Hospitals
	Trucking Distribution Centers
	Vehicles
	Weather Services
	Will County EOC
	Will County Sheriff Communications Center
	Will County TMC
	Wisconsin Municipal Public Safety

Element	Interfaces With
Municipal Public Safety Vehicles	City of Chicago OEMC Field Equipment
	Cook County Highway Department Field Equipment
	DuPage County Field Equipment
	IDOT District 1 Bureau of Arterial Operations Field Equipment
	Kane County Field Equipment
	Lake County Field Equipment
	Municipal/Township Field Equipment
Municipal TMCs	Academic/Research Organizations Data Warehouse
	City of Chicago TMC
	CMAP Northeastern Illinois Regional Data Archive
	Cook County Highway Department Maintenance Bureau Operations
	DuPage County Maintenance Operations
	Grundy County Maintenance Operations
	Grundy County TMC
	IDOT District 1 Bureau of Arterial Operations
	Illinois Gateway
	Kane County 911 Center
	Kane County TMC
	Kendall County Maintenance Operations
	Kendall County TMC
	Lake County Communications Center
	Lake County PASSAGE TMC
	McHenry County Maintenance Operations
	Municipal EMCs
	Municipal Public Safety Dispatch
	Municipal/Township Field Equipment
	Municipal/Township Maintenance Operations
Municipal Transit Operations	Illinois Transit Hub
	Independent School District Dispatch
	Metra Consolidated Control Facility
	Municipal EMCs
	Municipal Public Safety Dispatch
Municipal/Township Field Equipment	Private Bus Dispatch
Municipal/Township Field Equipment	Municipal TMCs
Municipal/Township Maintenance Operations	City of Chicago DSS Bureau of Electricity Signal Maintenance
	City of Chicago DSS Bureau of Street Operations

Element	Interfaces With
	Dispatch
	DuPage County Maintenance Operations
	DuPage County TMC
	Grundy County Maintenance Operations
	Grundy County TMC
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	Kane County Maintenance Operations
	Kendall County Maintenance Operations
	Kendall County TMC
	Lake County Communications Center
	Lake County Highway Maintenance Operations
	McHenry County Maintenance Operations
	Municipal TMCs
	Pace Control Center (IBS)
	Weather Services
	Will County Maintenance Operation
	Will County TMC
Neighboring Airports	IDOT District 1 ComCenter
	Illinois Gateway
	Regional Transportation Authority Travel Information Center (TIC)
NICTD Dispatch	Metra Consolidated Control Facility
	Pace Control Center (IBS)
OHare Air Cargo Terminal	City of Chicago 911 CAD
	Cook County Sheriff Communications Center
	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	Satellite TMC OHare Airport
	Trucking Distribution Centers
Other County 911 Centers	DuPage County EOC
	Grundy County 911 Center
	Kane County 911 Center
	Kendall County 911 Center
	McHenry County Sheriff Dispatch
	Will County Sheriff Communications Center
Other County EOCs	DuPage County EOC
	Kane County EOC
	McHenry County EOC
	Will County EOC
Other Regional Paratransit Dispatch	Pace Control Center (IBS)
	Regional Paratransit Dispatch
Pace BusInfo System	Illinois Transit Hub

Element	Interfaces With
	Pace BusInfo Signs Pace Control Center (IBS) WebWatch Internet Site
Pace Control Center (IBS)	Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago Operations Center (OC) City of Chicago TMC Cook County EOC Cook County Sheriff Communications Center Cook County TMC DuPage County EOC DuPage County TMC Grundy County TMC IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois Transit Hub Independent School District Dispatch ISTHA Computer Aided Dispatch Center Kane County EOC Kane County TMC Kendall County TMC Lake County EOC Lake County PASSAGE TMC McHenry County EOC McHenry County TMC Metra Consolidated Control Facility Municipal TMCs NICTD Dispatch Other Regional Paratransit Dispatch Pace BusInfo System Pace Data Archive Pace Transit Bus Vehicles Private Bus Dispatch Private Taxi Dispatch Regional Paratransit Dispatch Regional Transportation Authority Travel Information Center (TIC) RTA Passenger Certification Database Statewide Emergency Operations Center Weather Services Will County EOC Will County TMC
Pace Data Archive	Academic/Research Organizations Data

Element	Interfaces With
	Warehouse
	Illinois Transit Hub
	Pace Control Center (IBS)
Pace Paratransit Vehicles	Regional Paratransit Dispatch
Pace Transit Bus Vehicles	City of Chicago OEMC Field Equipment
	Cook County Highway Department Field Equipment
	DuPage County Field Equipment
	Grundy County Field Equipment
	IDOT District 1 Bureau of Arterial Operations Field Equipment
	Kane County Field Equipment
	Kendall County Field Equipment
	Lake County Field Equipment
	McHenry County Field Equipment
	Municipal/Township Field Equipment
	Pace Control Center (IBS)
	Will County Field Equipment
Port of Chicago Intermodal Facilities	City of Chicago 911 CAD
	City of Chicago TMC
	Coast Guard Dispatch
	Hazmat Management and Cleanup
	IDOT District 1 ComCenter
	Trucking Distribution Centers
Private Bus Dispatch	Illinois Transit Hub
	Municipal Transit Operations
	Pace Control Center (IBS)
	Public/Non-Profit Paratransit Services
	Regional Paratransit Dispatch
	Regional Transportation Authority Travel Information Center (TIC)
Private ISPs - Travel Information Services	Chicago Airport Parking Systems
	Chicago Bureau of Convention and Tourism Database
	Chicago Park District Parking Management System
	City of Chicago TMC
	Gateway Central
	IDOT District 1 Traffic Systems Center (TSC)
	Illinois Transit Hub
	MPEA Parking Management
	Regional Ridesharing and Vanpooling
	User Personal Computing Devices
Private Parking Lots	City of Chicago TMC

Element	Interfaces With
	Illinois Transit Hub
	Regional Transportation Authority Travel Information Center (TIC)
	Vehicles
Private Sector Maintenance Contractor Operations	City of Chicago DSS Bureau of Electricity Signal Maintenance
	Cook County TMC
	DuPage County TMC
	Grundy County 911 Center
	Grundy County Maintenance Operations
	Grundy County TMC
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	IDOT District 1 Maintenance Management
	Kane County TMC
	Kendall County Maintenance Operations
	Kendall County TMC
	Lake County Highway Maintenance Operations
	Lake County PASSAGE TMC
	McHenry County TMC
	Will County Maintenance Operation
	Will County TMC
Private Taxi Dispatch	Illinois Transit Hub
	Independent School District Dispatch
	Metra Consolidated Control Facility
	Regional Paratransit Dispatch
Private Tow and Recovery Operations	City of Chicago 911 CAD
	City of Chicago DSS Bureau of Traffic Services Dispatch
	Cook County Sheriff Communications Center
	IDOT District 1 ComCenter
	Illinois State Police Dispatch (Districts 2, 5 and Chicago)
	Illinois State Police District 15 Operations Desk
	ISTHA Computer Aided Dispatch Center
	Kane County EOC
	Municipal Public Safety Dispatch
	Will County Sheriff Communications Center
Public/Non-Profit Paratransit Services	Illinois Transit Hub
	Regional Paratransit Dispatch
	Regional Transportation Authority Travel Information Center (TIC)
Rail Freight Operations	City of Chicago TMC
	DuPage County Maintenance Operations

Element	Interfaces With
	IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter
Regional Event Facilities	City of Chicago TMC Cook County TMC DuPage County TMC Grundy County TMC IDOT District 1 ComCenter Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Kane County TMC Kendall County TMC Lake County PASSAGE TMC McHenry County TMC Will County TMC
Regional Hospitals	City of Chicago 911 CAD Cook County Sheriff Communications Center DuPage County Sheriff Communications Center Grundy County 911 Center IDOT District 1 ComCenter Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Kane County 911 Center Kendall County 911 Center Lake County Communications Center McHenry County Sheriff Dispatch Municipal Public Safety Dispatch Will County Sheriff Communications Center
Regional Paratransit Dispatch	Cook County Sheriff Communications Center Grundy County TMC Illinois Transit Hub Kendall County TMC Other Regional Paratransit Dispatch Pace Control Center (IBS) Pace Paratransit Vehicles Private Bus Dispatch Private Taxi Dispatch Public/Non-Profit Paratransit Services RTA Passenger Certification Database
Regional Ridesharing and Vanpooling	IDOT Metro Kiosks Illinois Transit Hub Private ISPs - Travel Information Services

Element	Interfaces With
	User Personal Computing Devices
Regional Transit Asset Management System (RTAMS)	Illinois Transit Hub
Regional Transportation Authority Travel Information Center (TIC)	Chicago Airport Parking Systems
	Chicago Airports
	Chicago Bureau of Convention and Tourism Database
	Chicago Transit Authority Control Center
	Illinois Transit Hub
	Media
	Metra Consolidated Control Facility
	Metra GPS Center (TIMS)
	MPEA Parking Management
	Neighboring Airports
	Pace Control Center (IBS)
	Private Bus Dispatch
	Regional Paratransit Dispatch
	RTA Multimodal Trip Planner
	User Personal Computing Devices
RTA Multimodal Information Kiosks	City of Chicago TMC
	Illinois Transit Hub
	RTA Multimodal Trip Planner
RTA Multimodal Trip Planner	Chicago Transit Authority ATSS System
	Chicago Transit Authority BusInfo System
	Illinois Transit Hub
	InfoTrans Signs
	Regional Transportation Authority Travel Information Center (TIC)
	User Personal Computing Devices
RTA Passenger Certification Database	Pace Control Center (IBS)
	Regional Paratransit Dispatch
Satellite TMC Midway Airport	City of Chicago 911 CAD
	City of Chicago TMC
	Cook County Sheriff Communications Center
	Cook County TMC
	IDOT District 1 Bureau of Arterial Operations
	IDOT District 1 ComCenter
	IDOT District 1 Traffic Systems Center (TSC)
	Media
	South Suburban Airport TMC
	Weather Services
Satellite TMC OHare Airport	Chicago Airports
	Chicago Transit Authority Control Center

Element	Interfaces With
	City of Chicago 911 CAD City of Chicago Department of Aviation Field Equipment City of Chicago TMC Cook County Highway Department Maintenance Bureau Operations Cook County Sheriff Communications Center Cook County TMC DuPage County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway ISTHA TMC (TIMS) Media Vehicles Weather Services
South Suburban Airport TMC	Chicago Transit Authority Control Center IDOT District 1 Bureau of Arterial Operations Illinois Gateway Municipal Public Safety Dispatch Satellite TMC Midway Airport Weather Services Will County Sheriff Communications Center Will County TMC
Statewide Emergency Operations Center	Chicago Transit Authority Control Center City of Chicago Operations Center (OC) DuPage County EOC IDOT District 1 ComCenter Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Kane County EOC Metra Consolidated Control Facility Pace Control Center (IBS)
Trucking Distribution Centers	City of Chicago 911 CAD Commercial Vehicles Cook County Sheriff Communications Center DuPage County EOC DuPage County Sheriff Communications Center Grundy County 911 Center IDOT District 1 ComCenter

Element	Interfaces With
	Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Intermodal Facilities Kane County 911 Center Kane County EOC Kendall County 911 Center Lake County Communications Center McHenry County EOC McHenry County Sheriff Dispatch Municipal EMCs Municipal Public Safety Dispatch OHare Air Cargo Terminal Port of Chicago Intermodal Facilities Will County EOC Will County Sheriff Communications Center
University of Illinois ICT Data Archive	Academic/Research Organizations Data Warehouse Gateway Central GCM Data Archive
User Personal Computing Devices	City of Chicago DOT Transportation Website Gateway Website ISTHA TMC (TIMS) Private ISPs - Travel Information Services Regional Ridesharing and Vanpooling Regional Transportation Authority Travel Information Center (TIC) RTA Multimodal Trip Planner
Utility Company Operations	City of Chicago 911 CAD City of Chicago TMC Cook County TMC DuPage County TMC Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter Kane County TMC Kendall County TMC Lake County PASSAGE TMC McHenry County TMC Will County TMC
Vehicles	Arterial Performance Monitoring System Chicago Airport Parking Systems Chicago Park District Parking Management System

Element	Interfaces With
	Chicago Transit Authority Parking Management Guidance System City of Chicago 911 CAD City of Chicago Skyway Field Equipment City of Chicago Skyway Toll Plaza Cook County Sheriff Communications Center DuPage County Sheriff Communications Center Grundy County 911 Center IDOT District 1 Traffic Systems Center Field Equipment Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk ISTHA I-Pass Toll Plazas ISTHA TMC Field Equipment Kane County 911 Center Lake County Communications Center McHenry County Sheriff Dispatch Metra Parking Management Guidance System MPEA Parking Management Municipal Parking Management Guidance System Municipal Public Safety Dispatch Private Parking Lots Will County Sheriff Communications Center
Water Taxi Service	Metra Consolidated Control Facility
Weather Services	Chicago Transit Authority Control Center City of Chicago 911 CAD City of Chicago DOT Roadway Maintenance City of Chicago DSS Bureau of Street Operations Dispatch City of Chicago DSS Bureau of Traffic Services Dispatch City of Chicago TMC Cook County Highway Department Maintenance Bureau Operations Cook County Sheriff Communications Center Cook County TMC DuPage County EOC DuPage County Maintenance Operations DuPage County TMC Grundy County Maintenance Operations Grundy County TMC IDOT Central Bureau of Operations Field Equipment IDOT District 1 Bureau of Arterial Operations

Element	Interfaces With
	IDOT District 1 Bureau of Construction IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction ISTHA TMC (TIMS) Kane County EOC Kane County Maintenance Operations Kane County TMC Kendall County Maintenance Operations Kendall County TMC Lake County Highway Maintenance Operations Lake County PASSAGE TMC McHenry County EOC McHenry County Maintenance Operations McHenry County TMC Metra Consolidated Control Facility Municipal Public Safety Dispatch Municipal/Township Maintenance Operations Pace Control Center (IBS) Satellite TMC Midway Airport Satellite TMC OHare Airport South Suburban Airport TMC Will County EOC Will County Maintenance Operation Will County Sheriff Communications Center Will County TMC
WebWatch Internet Site	Pace BusInfo System
Will County EOC	DuPage County EOC Hazmat Management and Cleanup IDOT District 1 ComCenter Illinois Gateway Kendall County 911 Center Media Metra Consolidated Control Facility Other County EOCs Pace Control Center (IBS) Trucking Distribution Centers

Element	Interfaces With
	Weather Services Will County Sheriff Communications Center Will County TMC
Will County Field Equipment	Will County Maintenance Operation Will County TMC
Will County Maintenance Operation	Cook County Highway Department Maintenance Bureau Operations DuPage County Maintenance Operations Grundy County Maintenance Operations IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Kendall County Maintenance Operations Municipal TMCs Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations Weather Services Will County Sheriff Communications Center Will County TMC
Will County Sheriff Communications Center	Coast Guard Dispatch Cook County Highway Department Maintenance Bureau Operations Cook County Sheriff Communications Center Cook County TMC DuPage County EOC DuPage County Sheriff Communications Center DuPage County TMC Grundy County 911 Center Grundy County TMC Hazmat Management and Cleanup IDOT District 1 Bureau of Arterial Operations IDOT District 1 ComCenter IDOT District 1 Maintenance Management Illinois Gateway Illinois Local Accident Reporting System Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk

Element	Interfaces With
	Independent School District Dispatch Indiana County/ Municipal Public Safety Dispatch Indiana DOT Arterial TMC Indiana State Police Dispatch ISTHA Computer Aided Dispatch Center Kendall County 911 Center Kendall County TMC Media Municipal Public Safety Dispatch Other County 911 Centers Private Tow and Recovery Operations Regional Hospitals South Suburban Airport TMC Trucking Distribution Centers Vehicles Weather Services Will County EOC Will County Sheriff Vehicles Will County TMC
Will County Sheriff Vehicles	Will County Sheriff Communications Center
Will County TMC	Cook County Sheriff Communications Center Cook County TMC DuPage County Sheriff Communications Center Grundy County 911 Center Grundy County TMC IDOT District 1 Bureau of Arterial Operations IDOT District 1 Bureau of Construction IDOT District 1 Bureau of Traffic - Expressway Operations Unit IDOT District 1 ComCenter IDOT District 1 Maintenance Management IDOT District 1 Traffic Systems Center (TSC) Illinois Gateway Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk Independent School District Dispatch Indiana County/ Municipal Public Safety Dispatch Indiana DOT Arterial TMC Indiana State Police Dispatch Intermodal Facilities ISTHA Computer Aided Dispatch Center ISTHA Maintenance and Construction

Element	Interfaces With
	ISTHA TMC (TIMS) Kendall County 911 Center Kendall County TMC Media Metra Consolidated Control Facility Municipal Public Safety Dispatch Municipal TMCs Municipal/Township Maintenance Operations Pace Control Center (IBS) Private Sector Maintenance Contractor Operations South Suburban Airport TMC Weather Services Will County EOC Will County Field Equipment Will County Maintenance Operation Will County Sheriff Communications Center
Wisconsin Gateway (MONITOR)	Gateway Central
Wisconsin Municipal Public Safety	DuPage County EOC Lake County Communications Center McHenry County EOC McHenry County Sheriff Dispatch McHenry County TMC Municipal Public Safety Dispatch
Wisconsin State Patrol District 2 Dispatch	Illinois State Police Dispatch (Districts 2, 5 and Chicago) Illinois State Police District 15 Operations Desk ISTHA Computer Aided Dispatch Center Lake County Communications Center Lake County PASSAGE TMC McHenry County Sheriff Dispatch McHenry County TMC
WisDOT Statewide Traffic Operations Center	IDOT District 1 ComCenter IDOT District 1 Traffic Systems Center (TSC) ISTHA TMC (TIMS) Lake County PASSAGE TMC

Appendix C: Functional Requirements

Functional Assigned to Elements of the Architecture

Element	Function
*999 Cellular Express Line	Emergency Call-Taking
	Mayday Support
Academic/Research Organizations Data Warehouse	Government Reporting Systems Support
	ITS Data Repository
	Traffic and Roadside Data Archival
	Virtual Data Warehouse Services
	On-Line Analysis and Mining
Arterial Performance Monitoring System	Government Reporting Systems Support
	ITS Data Repository
	Traffic and Roadside Data Archival
	Virtual Data Warehouse Services
	On-Line Analysis and Mining
	Traffic Data Collection
	TMC Probe Information Collection
Borman Traffic Management Center	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Freeway Management
	TMC Regional Traffic Control
Chicago Airport Parking Systems	Parking Electronic Payment
	Parking Management
Chicago Park District Parking Management System	Parking Electronic Payment
	Parking Management
Chicago Transit Authority BusInfo Signs	Remote Transit Information Services
Chicago Transit Authority Active Transit Station Signs	Remote Transit Information Services
	Remote Basic Information Reception
Chicago Transit Authority ATSS System	Transit Center Information Services
Chicago Transit Authority Bus Tracker Website	ISP Traveler Data Collection
	Basic Information Broadcast
Chicago Transit Authority Bus Vehicles	On-board Fixed Route Schedule Management
	On-board Maintenance
	On-board Transit Fare and Load Management
	On-board Transit Information Services
	On-board Transit Security
	On-board Transit Signal Priority
	On-board Transit Trip Monitoring
Chicago Transit Authority BusInfo System	Transit Center Information Services
	Transit Center Multi-Modal Coordination
Chicago Transit Authority Control Center	Incident Command
	Emergency Response Management
	Center Secure Area Surveillance
	Center Secure Area Sensor Management

Element	Function
	Center Secure Area Alarm Support
	Transit Center Fixed-Route Operations
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Center Security
	Transit Center Vehicle Tracking
	Transit Garage Maintenance
	Transit Vehicle Operator Scheduling
Chicago Transit Authority Data Archive	ITS Data Repository
	Virtual Data Warehouse Services
Chicago Transit Authority Farecard Machines	Remote Transit Fare Management
Chicago Transit Authority Garages	Transit Garage Maintenance
Chicago Transit Authority Parking Management Guidance System	Parking Coordination
	Parking Management
	Parking Electronic Payment
	Parking Data Collection
Chicago Transit Authority Rapid Transit Station Turnstyles	Remote Transit Fare Management
Chicago Transit Authority Rapid Transit Vehicles	On-board Fixed Route Schedule Management
	On-board Transit Information Services
	On-board Transit Security
Chicago Transit Authority Revenue Collection Center	Transit Center Fare and Load Management
Chicago Transit Authority Security Equipment	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
City of Chicago 311 Center	Non Emergency Call-Taking
City of Chicago 911 CAD	Emergency Call-Taking
	Emergency Dispatch
	Emergency Response Management
	Emergency Routing
	Incident Command
	Emergency Early Warning System
	Center Secure Area Surveillance
	Center Secure Area Alarm Support
	Emergency Commercial Vehicle Response
	Mayday Support
City of Chicago Department of Aviation Field Equipment	Roadway Basic Surveillance
	Roadway Equipment Coordination
City of Chicago DOT Roadway Maintenance	MCM Incident Management
	MCM Roadway Maintenance and Construction
	MCM Vehicle and Equipment Maintenance Management
	MCM Vehicle Tracking

Element	Function
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
City of Chicago DOT Transportation Website	Basic Information Broadcast
	Interactive Infrastructure Information
	ISP Traveler Data Collection
	Traveler Telephone Information
	Infrastructure Provided Trip Planning
	ISP Advanced Integrated Control Support
City of Chicago DOT Traveler Information Kiosks	Remote Basic Information Reception
	Remote Interactive Information Reception
City of Chicago DOT Vehicles	MCV Vehicle Location Tracking
City of Chicago DSS Bureau of Electricity Signal Maintenance	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Work Activity Coordination
	MCM Maintenance Decision Support
City of Chicago DSS Bureau of Street Operations Dispatch	MCM Vehicle Tracking
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
City of Chicago DSS Bureau of Traffic Services Dispatch	MCM Incident Management
City of Chicago DSS Field Equipment	Roadway Probe Beacons
	Roadway Equipment Coordination
	Roadway Incident Detection
	Roadway Environmental Monitoring
City of Chicago DSS Vehicles	MCV Vehicle Location Tracking
City of Chicago Incident Center (IC)	MCM Vehicle Tracking
	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
	MCM Roadway Maintenance and Construction
	MCM Work Activity Coordination
	Collect Traffic Surveillance
	TMC Signal Control
	TMC Regional Traffic Control
City of Chicago Joint Operations Center (JOC)	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
City of Chicago OEMC Field Equipment	Roadway Basic Surveillance
	Roadway Probe Beacons

Element	Function
	Roadway Signal Controls
	Roadway Signal Priority
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Standard Rail Crossing
	Advanced Rail Crossing
	Roadway Equipment Coordination
	Roadway Environmental Monitoring
	Roadway In-Vehicle Signing
	Roadway Intersection Collision Warning
	City of Chicago OEMC Maintenance Vehicles
City of Chicago OEMC Security Monitoring Equipment	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
City of Chicago OEMC Unified Command Vehicles	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command
	Emergency Early Warning System
	Emergency Response Management
	Emergency Evacuation Support
	Emergency Environmental Monitoring
	Center Secure Area Surveillance
	Center Secure Area Sensor Management
	Center Secure Area Alarm Support
	Mayday Support
	On-board EV En Route Support
On-board EV Incident Management Communication	
City of Chicago OEMC Website	Basic Information Broadcast
	Interactive Infrastructure Information
	ISP Emergency Traveler Information
City of Chicago Operations Center (OC)	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Emergency Early Warning System
	Center Secure Area Surveillance
	Center Secure Area Sensor Management
City of Chicago Skyway Field Equipment	Roadway Basic Surveillance
	Roadway Environmental Monitoring
	Roadway Equipment Coordination
	Roadway Freeway Control
	Toll Plaza Toll Collection
	Roadway Traffic Information Dissemination
City of Chicago Skyway Operations	Collect Traffic Surveillance

Element	Function
	TMC Freeway Management
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Probe Information Collection
	TMC Regional Traffic Control
	TMC Traffic Information Dissemination
	Toll Administration
	Toll Data Collection
	Traffic Maintenance
City of Chicago Skyway Toll Plaza	Toll Plaza Toll Collection
City of Chicago TMC	Collect Traffic Surveillance
	HRI Traffic Management
	ISP Traveler Data Collection
	ISP Probe Information Collection
	Traveler Telephone Information
	Infrastructure Provided Trip Planning
	ISP Advanced Integrated Control Support
	ISP Emergency Traveler Information
	TMC Probe Information Collection
	Rail Operations Coordination
	TMC Environmental Monitoring
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	Traffic Maintenance
CMAP Northeastern Illinois Regional Data Archive	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
	On-Line Analysis and Mining
Coast Guard Dispatch	Emergency Dispatch
	Emergency Call-Taking
	Incident Command
	Emergency Response Management
Commercial Vehicles	On-board Cargo Monitoring
	On-board CV Electronic Data
	On-board CV Safety and Security
	On-board Trip Monitoring
Cook County EOC	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System

Element	Function
	Emergency Response Management
Cook County Highway Department Construction Bureau Operations	MCM Work Activity Coordination
	MCM Work Zone Management
Cook County Highway Department Field Equipment	Advanced Rail Crossing
	Roadside Signal Priority
	Roadway Basic Surveillance
	Roadway Equipment Coordination
	Roadway Incident Detection
	Roadway Signal Controls
	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
	Standard Rail Crossing
	Roadway Field Device Monitoring
	Roadway Infrastructure Monitoring
	Roadway In-Vehicle Signing
	Cook County Highway Department Maintenance Bureau Operations
MCM Maintenance Decision Support	
MCM Roadway Maintenance and Construction	
MCM Vehicle and Equipment Maintenance Management	
MCM Vehicle Tracking	
MCM Winter Maintenance Management	
MCM Work Activity Coordination	
MCM Work Zone Management	
Cook County Maintenance Vehicles	MCV Vehicle Location Tracking
Cook County Sheriff Communications Center	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Environmental Monitoring
	Emergency Response Management
Cook County Sheriff Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Cook County TMC	Collect Traffic Surveillance
	HRI Traffic Management
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Maintenance

Element	Function
CVO Crash Reporting (MCSAP)	Citation and Accident Electronic Recording
	Roadside Electronic Screening
	Roadside Safety and Security Inspection
	Roadside WIM
CVO Inspection Reporting (ASPEN)	Citation and Accident Electronic Recording
	Roadside Electronic Screening
	Roadside WIM
	Roadside Safety and Security Inspection
DuPage County EOC	Emergency Environmental Monitoring
	Emergency Response Management
	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command
	Service Patrol Management
	Emergency Early Warning System
	Emergency Evacuation Support
	Center Secure Area Surveillance
	Center Secure Area Sensor Management
	Emergency Commercial Vehicle Response
	Mayday Support
	DuPage County EOC Field Devices
Field Barrier System Control	
Field Safeguard System and Control	
Field Secure Area Sensor Monitoring	
Field Secure Area Surveillance	
DuPage County Field Equipment	Advanced Rail Crossing
	Roadside Signal Priority
	Roadway Basic Surveillance
	Roadway Environmental Monitoring
	Roadway Equipment Coordination
	Roadway Incident Detection
	Roadway Signal Controls
	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
	Roadway Field Device Monitoring
	Roadway Speed Monitoring
Roadway Infrastructure Monitoring	
Standard Rail Crossing	
DuPage County Maintenance Operations	MCM Incident Management
	MCM Environmental Information Collection
	MCM Maintenance Decision Support
	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking

Element	Function
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
DuPage County Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Roadway Maintenance and Construction
DuPage County Sheriff Communications Center	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command
	Emergency Early Warning System
	Emergency Evacuation Support
	Emergency Environmental Monitoring
	Emergency Response Management
	Center Secure Area Surveillance
	Center Secure Area Alarm Support
	Mayday Support
DuPage County Sheriff Vehicles	On-board EV En-Route Support
	On-board EV Incident Management Communication
DuPage County TMC	Collect Traffic Surveillance
	HRI Traffic Management
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Evacuation Support
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	TMC Multimodal Coordination
	Traffic Data Collection
	Traffic Maintenance
Gateway Central	Basic Information Broadcast
	Interactive Infrastructure Information
	ISP Data Collection
	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
	TMC Multimodal Coordination
	TMC Regional Traffic Control
	Traffic Data Collection
Gateway Website	Basic Information Broadcast
	ISP Traveler Data Collection
	Traveler Telephone Information
	Infrastructure Provided Trip Planning
	Interactive Infrastructure Information

Element	Function
GCM Data Archive	Government Reporting Systems Support
	ITS Data Repository
	On-Line Analysis and Mining
	Traffic and Roadside Data Archival
Great Lakes Training Center	Emergency Response Management
Grundy County 911 Center	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Emergency Response Management
Grundy County EOC	Emergency Call-Taking
	Emergency Dispatch
	Incident Management
	Emergency Response Management
Grundy County EOC Field Equipment	Roadway Traffic Information Dissemination
Grundy County Field Equipment	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Advanced Rail Crossing
	Roadway Equipment Coordination
	Roadway Environmental Monitoring
	Roadway Speed Monitoring
	Roadway Work Zone Traffic Control
Grundy County Maintenance Operations	MCM Environmental Information Collection
	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
	MCM Roadway Maintenance and Construction
	MCM Work Zone Management
	MCM Work Activity Coordination
Grundy County Maintenance Vehicles	MCV Roadway Maintenance and Construction
Grundy County Sheriff Vehicles	On-board EV En-Route Support
	On-board EV Incident Management Communication
Grundy County TMC	Collect Traffic Surveillance
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	HRI Traffic Management
	Traffic Maintenance
Hazmat Management and Cleanup	Fleet Administration
	Fleet HAZMAT Management

Element	Function
	Fleet Maintenance Management
	Commercial Vehicle and Freight Security
	Freight Administration and Management
Highway Emergency Lane Patrol Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
IDOT Bureau of Bridges and Structures Field Equipment	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
IDOT Central Bureau of Operations Field Equipment	Roadway Probe Beacons
	Roadway Equipment Coordination
IDOT Central Bureau of Operations Roadway and Weather Information System	Basic Information Broadcast
	ISP Probe Information Collection
	TMC Probe Information Collection
	TMC Environmental Monitoring
IDOT CVO Inspection Facility	Citation and Accident Electronic Recording
	Roadside Electronic Screening
	Roadside WIM
	Roadside Safety and Security Inspection
IDOT CVO Permitting - Oversize/Overweight	Credentials and Taxes Administration
	CV Information Exchange
	CV Safety Administration
IDOT District 1 Bureau of Construction	MCM Vehicle and Equipment Maintenance Management
	MCM Vehicle Tracking
	MCM Environmental Information Processing
	MCM Maintenance Decision Support
	MCM Work Activity Coordination
	MCM Work Zone Management
IDOT District 1 Bureau of Traffic - Arterial Operations	Collect Traffic Surveillance
	HRI Traffic Management
	Rail Operations Coordination
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Multimodal Coordination
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Evacuation Support
	TMC Work Zone Traffic Management
	Traffic Maintenance
IDOT District 1 Bureau of Traffic Signal Unit Roadside Equipment	Roadway Basic Surveillance

Element	Function
	Roadway Equipment Coordination Roadway Infrastructure Monitoring Roadway Signal Controls Roadway Signal Priority Roadway Traffic Information Dissemination Roadway Field Device Monitoring Roadway Work Zone Traffic Control Roadway Intersection Collision Warning Standard Rail Crossing
IDOT District 1 Bureau of Traffic- Expressway Operations Unit	MCM Incident Management MCM Roadway Maintenance and Construction MCM Work Activity Coordination
IDOT District 1 ComCenter	Basic Information Broadcast Collect Traffic Surveillance Emergency Data Collection Emergency Environmental Monitoring Emergency Response Management ITS Data Repository Mayday Support Government Reporting Systems Support Virtual Data Warehouse Services Emergency Call-Taking Emergency Dispatch Emergency Routing Incident Command Service Patrol Management Emergency Evacuation Support Emergency Commercial Vehicle Response ISP Traveler Data Collection ISP Probe Information Collection ISP Data Collection MCM Data Collection MCM Environmental Information Collection MCM Environmental Information Processing MCM Incident Management MCM Maintenance Decision Support MCM Roadway Maintenance and Construction MCM Winter Maintenance Management MCM Work Activity Coordination MCM Work Zone Management TMC Freeway Management TMC Incident Detection TMC Incident Dispatch Coordination/Communication

Element	Function
	TMC Regional Traffic Control TMC Reversible Lane Management TMC Traffic Information Dissemination TMC Work Zone Traffic Management TMC Probe Information Collection TMC Evacuation Support TMC Environmental Monitoring TMC Multimodal Crossing Management Barrier System Management Traffic Data Collection Traffic and Roadside Data Archival Traffic Maintenance
IDOT District 1 ComCenter Field Equipment	Roadway Basic Surveillance Roadway Environmental Monitoring Roadway Equipment Coordination Roadway Probe Beacons Roadway Field Device Monitoring Field Barrier System Control Roadway Infrastructure Monitoring Roadway Freeway Control Roadway Incident Detection Roadway Reversible Lanes Roadway Traffic Information Dissemination Roadway Work Zone Traffic Control
IDOT District 1 Maintenance Management	MCM Incident Management MCM Maintenance Decision Support MCM Environmental Information Processing MCM Roadway Maintenance and Construction MCM Vehicle Tracking MCM Winter Maintenance Management MCM Work Activity Coordination MCM Work Zone Management
IDOT District 1 Traffic Systems Center (TSC)	Collect Traffic Surveillance ISP Data Collection ISP Traveler Data Collection ISP Probe Information Collection TMC Probe Information Collection TMC Signal Control Basic Information Broadcast TMC Environmental Monitoring TMC Freeway Management TMC HOV Lane Management TMC Incident Detection TMC Incident Dispatch

Element	Function
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Data Collection
	Traffic Maintenance
IDOT District 1 Traffic Systems Center Field Equipment	Roadway Basic Surveillance
	Roadway Equipment Coordination
	Roadway Freeway Control
	Roadway HOV Control
	Roadway Incident Detection
	Roadway Field Device Monitoring
	Roadway Infrastructure Monitoring
	Roadway Work Zone Traffic Control
	Roadway Traffic Information Dissemination
IDOT Email Notification System (ENS)	Interactive Infrastructure Information
IDOT Emergency Traffic Patrol (ETP)	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Evacuation Support
	Emergency Commercial Vehicle Response
	Emergency Response Management
	Mayday Support
	Service Patrol Management
IDOT Emergency Traffic Patrol Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
IDOT Maintenance Vehicles	MCV Roadway Maintenance and Construction
	MCV Vehicle Location Tracking
	MCV Infrastructure Monitoring
	MCV Winter Maintenance
IDOT Metro Kiosks	Remote Basic Information Reception
IDOT Rest Area Kiosks	Remote Basic Information Reception
	Remote Interactive Information Reception
IDOT Transportation Website	Interactive Infrastructure Information
IDOT Weigh Scales	Roadside Electronic Screening
	Roadside Safety and Security Inspection
	Citation and Accident Electronic Recording
	Roadside WIM
Illinois 511 System	ISP Traveler Data Collection
	Basic Information Broadcast
	Interactive Infrastructure Information
	Traveler Telephone Information
Illinois DOT Info	ISP Traveler Data Collection

Element	Function
	Basic Information Broadcast
	Interactive Infrastructure Information
	Traveler Telephone Information
Illinois Environmental Protection Agency (EPA)	Emissions Data Management
Illinois EOSS/ CVISN Web Site	Credentials and Taxes Administration
	CV Safety Administration
	CV Information Exchange
Illinois Gateway	Basic Information Broadcast
	Interactive Infrastructure Information
	ISP Traveler Data Collection
	Traveler Telephone Information
	ISP Data Collection
	TMC Traffic Network Performance Evaluation
	TMC Environmental Monitoring
	TMC Toll/Parking Coordination
	TMC Traffic Data Collection
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Multimodal Coordination
	TMC Regional Traffic Control
	TMC Work Zone Traffic Management
Illinois GIS Transportation Coalition	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
Illinois Local Accident Reporting System	ITS Data Repository
	Government Reporting Systems Support
Illinois Single State Registration System	Credentials and Taxes Administration
	CV Safety Administration
	CV Information Exchange
Illinois State Police Dispatch (Districts 2, 5 and Chicago)	Emergency Call-Taking
	Emergency Dispatch
	Emergency Response Management
	Emergency Routing
	Incident Command
	Emergency Evacuation Support
	Center Secure Area Alarm Support
	Center Secure Area Surveillance
	Emergency Commercial Vehicle Response
	Mayday Support
Illinois State Police District 15 Operations Desk	Emergency Call-Taking
	Emergency Dispatch
	Emergency Response Management

Element	Function
	Emergency Routing
	Incident Command
	Emergency Evacuation Support
	Center Secure Area Alarm Support
	Center Secure Area Surveillance
	Emergency Commercial Vehicle Response
	Mayday Support
Illinois State Police Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Illinois Transit Hub	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
	Infrastructure Provided Yellow Pages and Reservation
	ISP Data Collection
	Transit Data Collection
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
Illinois Transit Hub Website	Traveler Telephone Information
	Infrastructure Provided Trip Planning
Independent School District Dispatch	Transit Center Fixed-Route Operations
	Transit Center Multi-Modal Coordination
	Transit Center Vehicle Tracking
	Transit Vehicle Operator Scheduling
Indiana County/Municipal Public Safety Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Response Management
Indiana DOT Arterial TMC	ISP Traveler Data Collection
	Basic Information Broadcast
	TMC Regional Traffic Control
Indiana Gateway	ISP Traveler Data Collection
	Basic Information Broadcast
	TMC Regional Traffic Control
Indiana State Police Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Response Management
Indiana Toll Road Operations Center	Collect Traffic Surveillance
	TMC Freeway Management
	TMC Traffic Information Dissemination

Element	Function
	TMC Regional Traffic Control
	Traffic Maintenance
InfoTrans Signs	Remote Transit Information Services
ISTHA Computer Aided Dispatch Center	Emergency Call-Taking
	Emergency Environmental Monitoring
	Emergency Response Management
	Emergency Dispatch
	Incident Command
	Emergency Evacuation Support
	Emergency Commercial Vehicle Response
	Center Secure Area Alarm Support
	Center Secure Area Surveillance
	Mayday Support
	Service Patrol Management
ISTHA IPASS Business Center	Toll Administration
	Toll Data Collection
ISTHA I-Pass Toll Plazas	Toll Plaza Toll Collection
	Roadway Probe Beacons
ISTHA Maintenance and Construction	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Environmental Information Processing
	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
ISTHA Maintenance Vehicle	MCV Vehicle Location Tracking
	MCV Vehicle System Monitoring and Diagnostics
	MCV Roadway Maintenance and Construction
ISTHA TIMS Kiosks	Remote Basic Information Reception
	Remote Interactive Information Reception
ISTHA TMC (TIMS)	Collect Traffic Surveillance
	ITS Data Repository
	Traffic and Roadside Data Archival
	Virtual Data Warehouse Services
	ISP Traveler Data Collection
	ISP Probe Information Collection
	Basic Information Broadcast
	Traffic Data Collection
	TMC Evacuation Support
	TMC Environmental Monitoring
	TMC Probe Information Collection
	TMC Signal Control
	TMC Freeway Management

Element	Function
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
ISTHA TMC Field Equipment	Traffic Maintenance
	Roadway Basic Surveillance
	Roadway Equipment Coordination
	Roadway Freeway Control
	Roadway Traffic Information Dissemination
	Roadway Probe Beacons
	Roadway Incident Detection
	Roadway Field Device Monitoring
	Roadway Environmental Monitoring
	Roadway Infrastructure Monitoring
Roadway Work Zone Traffic Control	
ISTHA Weigh in Motion	Roadside Electronic Screening
	Roadside WIM
	Citation and Accident Electronic Recording
Kane County 911 Center	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Data Collection
	Emergency Response Management
Kane County Construction Operations	MCM Work Activity Coordination
Kane County EOC	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Response Management
	Mayday Support
Kane County EOC Field Equipment	Emergency Commercial Vehicle Response
Kane County EOC Field Equipment	Roadway Traffic Information Dissemination
Kane County Field Equipment	Advanced Rail Crossing
	Roadway Basic Surveillance
	Roadway Equipment Coordination
	Roadway Signal Controls
	Roadway Work Zone Traffic Control
	Standard Rail Crossing
	Roadway Signal Priority
	Roadway HOV Control
	Roadway Traffic Information Dissemination

Element	Function
	Roadway Incident Detection
	Roadway Field Device Monitoring
	Roadway Environmental Monitoring
	Roadway Automated Treatment
	Roadway Speed Monitoring
	Roadway Infrastructure Monitoring
	Roadway Work Zone Safety
Kane County Maintenance Operations	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Environmental Information Collection
	MCM Work Zone Safety Management
	MCM Work Zone Management
Kane County Maintenance Vehicles	MCV Vehicle Location Tracking
Kane County Sheriff Vehicles	On-board EV En-Route Support
	On-board EV Incident Management Communication
Kane County TMC	Collect Traffic Surveillance
	HRI Traffic Management
	Traffic Data Collection
	TMC HOV Lane Management
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Maintenance
Kendall County 911 Center	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Emergency Response Management
Kendall County EOC	Emergency Call-Taking
	Emergency Dispatch
	Incident Management
	Emergency Response Management
Kendall County EOC Field Equipment	Roadway Traffic Information Dissemination
Kendall County Field Equipment	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority
	Roadway Traffic Information Dissemination

Element	Function
	Roadway Incident Detection
	Advanced Rail Crossing
	Standard Rail Crossing
	Roadway Equipment Coordination
	Roadway Environmental Monitoring
	Roadway Speed Monitoring
	Roadway Work Zone Traffic Control
Kendall County Maintenance Operations	MCM Environmental Information Collection
	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
	MCM Roadway Maintenance and Construction
	MCM Work Zone Management
	MCM Work Activity Coordination
Kendall County Maintenance Vehicles	MCV Roadway Maintenance and Construction
Kendall County Sheriff Vehicles	On-board EV En-Route Support
Kendall County TMC	Collect Traffic Surveillance
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	HRI Traffic Management
	Traffic Maintenance
Kenosha County Highway Maintenance Operations	MCM Incident Management
	MCM Roadway Maintenance and Construction
Kenosha County Public Safety Dispatch	Incident Command
	Emergency Early Warning System
	Emergency Response Management
Lake County Communications Center	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Environmental Monitoring
	Emergency Response Management
Lake County EOC	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Environmental Monitoring
	Emergency Response Management
Lake County EOC Field Equipment	Roadway Traffic Information Dissemination
Lake County Field Equipment	Roadway Basic Surveillance

Element	Function
	Roadway Signal Controls
	Roadway Signal Priority
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Standard Rail Crossing
	Advanced Rail Crossing
	Roadway Equipment Coordination
	Roadway Field Device Monitoring
	Roadway Speed Monitoring
	Roadway Infrastructure Monitoring
	Roadway Work Zone Traffic Control
	Roadway In-Vehicle Signing
Lake County Highway Construction Operations	MCM Work Activity Coordination
Lake County Highway Maintenance Operations	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
Lake County Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Roadway Maintenance and Construction
Lake County PASSAGE TMC	Collect Traffic Surveillance
	HRI Traffic Management
	Traffic Data Collection
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Maintenance
Lake County PASSAGE Website	Interactive Infrastructure Information
Lake County Sheriff Vehicles	On-board EV En-Route Support
	On-board EV Incident Management Communication
McHenry County EOC	Emergency Response Management
	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Mayday Support
	Emergency Commercial Vehicle Response
McHenry County EOC Field Equipment	Roadway Traffic Information Dissemination

Element	Function
McHenry County Field Equipment	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority
	Roadway Traffic Information Dissemination
	Standard Rail Crossing
	Advanced Rail Crossing
	Roadway Equipment Coordination
	Roadway Field Device Monitoring
	Roadway Infrastructure Monitoring
	Roadway Work Zone Traffic Control
McHenry County Maintenance Operations	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
McHenry County Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Roadway Maintenance and Construction
McHenry County Sheriff Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Environmental Monitoring
McHenry County Sheriff Vehicles	Emergency Response Management
McHenry County Sheriff Vehicles	On-board EV Incident Management Communication
McHenry County TMC	Collect Traffic Surveillance
	HRI Traffic Management
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Maintenance
Metra Consolidated Control Facility	Transit Center Fixed-Route Operations
	Transit Center Information Services
	Transit Evacuation Support
	Transit Center Multi-Modal Coordination
	Transit Center Security
	Transit Center Vehicle Tracking
	Transit Garage Maintenance
	Transit Center Operator Scheduling

Element	Function
Metra GPS Center (TIMS)	Transit Center Vehicle Tracking
	Transit Center Information Services
Metra Maintenance Yards	MCM Vehicle Tracking
	MCM Vehicle and Equipment Maintenance Management
	MCM Data Collection
Metra Parking Management Guidance System	Parking Coordination
	Parking Electronic Payment
	Parking Management
Metra Passenger Information Display Signs	Remote Transit Information Services
Metra PMGS Signs	Roadway Parking Information Dissemination
Metra Police	Incident Command
	Center Secure Area Sensor Management
	Center Secure Area Alarm Support
	Mayday Support
Metra Public Address System	Remote Transit Information Services
Metra Security Equipment	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
Metra Suburban Passenger Information Display Signs	Remote Transit Information Services
Metra Track and Signaling Equipment	Standard Rail Crossing
Metra Trains	On-board Fixed Route Schedule Management
	On-board Maintenance
	On-board Transit Fare and Load Management
	On-board Transit Information Services
	On-board Transit Security
	On-board Transit Signal Priority
On-board Transit Trip Monitoring	
Metra Website	Interactive Infrastructure Information
MPEA Parking Management	Parking Electronic Payment
	Parking Management
Municipal EMCs	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command
	Emergency Early Warning System
	Emergency Response Management
	Emergency Evacuation Support
	Mayday Support
Emergency Commercial Vehicle Response	
Municipal Parking Management Guidance System	Parking Electronic Payment
	Parking Management
Municipal Public Safety Dispatch	Emergency Call-Taking
	Emergency Dispatch

Element	Function
	Emergency Routing
	Incident Command
	Emergency Early Warning System
	Emergency Evacuation Support
	Center Secure Area Sensor Management
	Center Secure Area Alarm Support
	Mayday Support
	Emergency Commercial Vehicle Response
	Emergency Response Management
	Emergency Secure Area Surveillance
Municipal Public Safety Vehicles	On-board EV En-Route Support
Municipal TMCs	Collect Traffic Surveillance
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Evacuation Support
	HRI Traffic Management
	TMC Work Zone Traffic Management
	TMC Multimodal Coordination
	Traffic Data Collection
	Traffic Maintenance
Municipal Transit Operations	Transit Center Fixed-Route Operations
	Transit Center Multi-Modal Coordination
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Evacuation Support
Municipal/Township Field Equipment	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Standard Rail Crossing
	Advanced Rail Crossing
	Roadway Equipment Coordination
	Roadway Speed Monitoring
	Roadway Work Zone Traffic Control
	Roadway Data Collection
Municipal/ Township Maintenance Operations	MCM Maintenance Decision Support
	MCM Vehicle Tracking
	MCM Incident Management
	MCM Roadway Maintenance and Construction

Element	Function
	MCM Winter Maintenance Management
	MCM Work Zone Management
Municipal/ Township Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Roadway Maintenance and Construction
NICTD Dispatch	Transit Center Multi-Modal Coordination
Northeastern Illinois Regional Data Archive	Traffic and Roadside Data Archival
Pace BusInfo Signs	Remote Transit Information Services
Pace BusInfo System	Transit Center Information Services
Pace Control Center (IBS)	Transit Center Fare and Load Management
	Transit Center Fixed-Route Operations
	Transit Center Multi-Modal Coordination
	Transit Center Security
	Transit Center Vehicle Tracking
	Transit Garage Maintenance
	Transit Vehicle Operator Scheduling
Pace Data Archive	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
Pace Garages	Transit Garage Maintenance
Pace Paratransit Vehicles	On-board Paratransit Operations
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Transit Trip Monitoring
	On-board Maintenance
	On-board Transit Information Services
Pace Security Equipment	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
Pace Transit Bus Vehicles	On-board Transit Trip Monitoring
	On-board Fixed Route Schedule Management
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Maintenance
	On-board Transit Signal Priority
	On-board Transit Information Services
Private Bus Dispatch	Transit Center Fixed-Route Operations
	Transit Center Multi-Modal Coordination
	Transit Center Paratransit Operations
	Transit Center Vehicle Tracking
	Transit Center Security
	Transit Evacuation Support
	Transit Vehicle Operator Scheduling
Private ISPs - Travel Information Services	Basic Information Broadcast
	ISP Traveler Data Collection
	ISP Probe Information Collection

Element	Function
	Traveler Telephone Information
	Infrastructure Provided Trip Planning
	ISP Emergency Traveler Information
	Interactive Infrastructure Information
Private Parking Lots	Parking Electronic Payment
	Parking Management
Private Sector Maintenance Contractor Operations	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
	MCM Work Zone Management
Private Taxi Dispatch	Transit Center Multi-Modal Coordination
	Transit Center Paratransit Operations
	Transit Center Vehicle Tracking
	Transit Center Security
	Transit Evacuation Support
	Transit Vehicle Operator Scheduling
Private Tow and Recovery Operations	Emergency Dispatch
	Emergency Call-Taking
	Emergency Routing
	Incident Command
	Service Patrol Management
	Emergency Response Management
Public/Non-Profit Paratransit Services	Transit Center Paratransit Operations
	Transit Center Security
	Transit Vehicle Operator Scheduling
Red Light Running Cameras	Roadway Basic Surveillance
	Roadway Incident Detection
	Roadway Equipment Coordination
	Roadway Speed Monitoring
Regional Paratransit Dispatch	Transit Center Vehicle Tracking
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Center Multi-Modal Coordination
	Transit Evacuation Support
Regional Ridesharing and Vanpooling	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
	Infrastructure Provided Dynamic Ridesharing
Regional Transit Asset Management System (RTAMS)	ITS Data Repository
	Traffic and Roadside Data Archival

Element	Function
	Government Reporting Systems Support
	On-Line Analysis and Mining
Regional Transportation Authority Travel Information Center (TIC)	Basic Information Broadcast
	Infrastructure Provided Yellow Pages & Reservation
	Interactive Infrastructure Information
	ISP Traveler Data Collection
	Traveler Telephone Information
	Infrastructure Provided Trip Planning
	Transit Center Fixed-Route Operations
	Transit Center Fare and Load Management
	Transit Vehicle Operator Scheduling
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
RTA Multimodal Information Kiosks	Remote Interactive Information Reception
	Remote Transit Information Services
RTA Multimodal Trip Planner	Transit Center Information Services
	Transit Center Multi-Modal Coordination
RTA Passenger Certification Database	Transit Data Collection
Satellite TMC Midway Airport	Collect Traffic Surveillance
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	Traffic Maintenance
Satellite TMC OHare Airport	Collect Traffic Surveillance
	Parking Electronic Payment
	Parking Management
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Evacuation Support
	Traffic Maintenance
South Suburban Airport TMC	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
Statewide Emergency Operations Center	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command

Element	Function
	Emergency Early Warning System
	Emergency Response Mangement
	Emergency Evacuation Support
Trucking Distribution Centers	Fleet Administration
	Fleet Credentials and Taxes Management and Reporting
	Commercial Vehicle and Freight Security
	Fleet HAZMAT Management
	Fleet Maintenance Management
	Freight Administration and Management
University of Illinois ICT Data Archive	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
	On-Line Analysis Mining
User Personal Computing Devices	Personal Basic Information Reception
	Personal Interactive Information Reception
	Personal Location Determination
	Personal Provider-Based Route Guidance
Utility Company Operations	MCM Vehicle Tracking
	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Roadway Maintenance and Construction
	MCM Work Zone Management
Vehicles	Basic Vehicle Reception
	Interactive Vehicle Reception
	In-Vehicle Signing System
	Vehicle Location Determination
	Vehicle Probe Support
	Vehicle Trip Planning and Route Guidance
	Vehicle Intersection Collision Warning
	Vehicle Toll/Parking Interface
WebWatch Internet Site	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
Will County EOC	Emergency Response Management
	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Mayday Support
	Emergency Commercial Vehicle Response
Will County EOC Field Equipment	Roadway Traffic Information Dissemination
Will County Field Equipment	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority

Element	Function
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Standard Rail Crossing
	Advanced Rail Crossing
	Roadway Equipment Coordination
	Roadway Field Device Monitoring
	Roadway Speed Monitoring
	Roadway Infrastructure Monitoring
	Roadway Work Zone Traffic Control
	Roadway Data Collection
Will County Maintenance Operations	MCM Incident Management
	MCM Roadway Maintenance and Construction
	MCM Vehicle and Equipment Maintenance Management
	MCM Vehicle Tracking
	MCM Maintenance Decision Support
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
Will County Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Roadway Maintenance and Construction
Will County Sheriff Communications Center	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Commercial Vehicle Response
	Emergency Response Management
	Mayday Support
Will County Sheriff Vehicles	On-board EV En-Route Support
	On-board EV Incident Management Communication
Will County TMC	Collect Traffic Surveillance
	HRI Traffic Management
	TMC Incident Detection
	TMC Incident Dispatch
	Coordination/Communication
	TMC Regional Traffic Control
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Maintenance
Will County Weigh in Motion	Roadside WIM
Wisconsin Gateway (MONITOR)	ISP Traveler Data Collection
	Basic Information Broadcast
	Infrastructure Provided Trip Planning

Element	Function
	TMC Regional Traffic Control
Wisconsin Municipal Public Safety	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Early Warning System
	Emergency Response Management
Wisconsin State Patrol District 2 Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Response Management
WisDOT Statewide Traffic Operations Center	TMC Freeway Management
	TMC Incident Dispatch
	Coordination/Communication