Metropolitan Intelligent Transportation Systems (ITS) Infrastructure
2004 Public Safety (Fire Rescue) Survey

Preliminary Results

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FLEET CHARACTERISTICS:

Number of agencies: 405

	In 2004	2005 Estimate
1. Total number of emergency response vehicles operated:	15,626	14,141
2. Total number of emergency response vehicles equipped with on-board navigation capability (i.e., digital map):	1,788	3,514
3. Total number of emergency response vehicles under a computer-aided dispatch system (CAD):	13,017	12,318
4. Total number of emergency response vehicles with traffic signal system communications (i.e., signal preemption):	5,049	5,283
5. Total number of emergency response vehicles with Automatic Vehicle Location (AVL)	2,847	4,360

TRAFFIC INCIDENT MANAGEMENT TEAM:

6. Does your agency participate in a team that meets on a regular basis to evaluate and improve coordinated incident response and to address traffic problems as well?

181	Yes
203	No
8	Don't know

7. Does your agency participate in a formal multi-agency regional or statewide program to coordinate management of traffic incidents that contains all the following elements?

Strategic Planning - A mutually agreed to statement of multi-agency program goals and measurable objectives.

Program Plan - A multi-year, multi-agency program plan that maps out the process toward meeting program goals and identifying initiatives, tasks and funding sources.

Annual Work Plan - A plan of tasks, projects, or initiatives for participating agencies to be done during the current year with funding secured.

93	Yes
234	No
64	Don't know

8. Does your agency participate in a statewide disaster planning program?

301	Yes
66	No
24	Don't know

TRAFFIC INCIDENT MANAGEMENT:

9. With what types of agencies does your agency electronically share real-time and/or after-the-fact reporting information on traffic incidents?

Real-Time Data	After-The-Fact Data	
43	81	Other Fire/Rescue agencies
63	54	Law enforcement agencies (local)
9	42	Law enforcement agencies (state)
8	41	Transportation agencies (local)
1	39	Transportation agencies (state)
86	67	Do not electronically exchange information
16	44	Do not know
see Appendix A		Other

10. Has a multi-agency contact list been developed in your area containing the names, phone numbers, pager numbers, and other pertinent information for the appropriate response personnel?

208	Yes
22	No
29	Don't know

11. Is an Incident Management (Incident Command) System used on-scene to manage traffic incidents?

70	Yes, specified by state law
139	Yes, through agreement
15	No
36	Don't know

12. Is there a legal specification by state law or formal agreement as to who is in charge at the scene of a traffic incident (Incident Commander)?

123	Yes, who? see Appendix B
45	No
89	Don't know

13. Has a plan been developed and adopted by responding agencies for staging and parking response vehicles and equipment at a traffic incident site in a manner that minimizes lane blockage and facilitates the re-opening of lanes?

155	Yes
80	No
27	Don't know

14. Are respondents protected through law or court opinion for liability claims for damages to vehicles or cargoes during clearance activities so long as the removal was not done in a careless or grossly negligent manner?

88	Yes
6	No
1	Legislation or action being planned
166	Don't know

15. Are there any policies and procedures to facilitate quick removal of heavily damaged vehicles and non-hazardous cargoes in your metropolitan area?

66	Yes, please briefly describe the policy or procedures see Appendix C
58	No
135	Don't know

TRAFFIC INCIDENT MANAGEMENT (Cont.):

16. What agency usually directs traffic on-scene at major traffic incidents in your area?

253	Law enforcement
7	Fire and rescue
1	Transportation
0	Auxiliary or reserves (fire or police)
0	Don't know

17. Are on-scene responders to traffic incidents from your agency familiar with standards for traffic control specified in the Manual on Uniform Traffic Control Devices (MUTCD)?

38	Yes
131	No
50	Don't know
42	Don't know about MUTCD

OPERATIONS:

18. Can you respond to emergencies, when required, without lights and siren using signal preemption?

36	Yes
220	No

19. How do you interface with traffic management?

104	Face to face (co-located)
96	Voice communication
18	Data communication (compatible CAD, use of eXtensive Markup Language (XML) standards for web)
7	Multimedia includes video sharing
85	Do not interface with traffic management
	Other (please specify) see Appendix D

20. Do you have access to Automatic Collision Notification (ACN) data?

6	Yes, which type?

3	Commercial systems (e.g., Onstar)
1	Advanced ACN (crash severity data)
	Other (please specify) see Appendix E

248	No

21. Do your ambulances have telemedicine capability?

98	Yes, which type?

37	Data to hospital
73	Voice to hospital
0	Video to hospital
	Other (please specify) see Appendix F

56	No
84	Do not have ambulances

OPERATIONS (Cont.):

22. Are operators answering emergency calls trained in Emergency Medical Dispatch (EMD) procedures?

204	Yes
47	No

23. Have you developed technical standards and procedures, and legal and ethical guidelines for telemedicine and advanced ACN

96	Yes
144	No

DISPATCH:

24. Do you track vehicle location with AVL to aid CAD?

50	Yes
198	No
10	Do not have CAD

25. Which agencies is your CAD interoperable with?

125	Other Police
129	Other Fire/rescue
15	Traffic management
38	CAD is not interoperable
25	Do not have CAD

26. Can you share AVL data with other CAD systems?

23	Yes
118	No
104	Do not have CAD and/or AVL

27. Do you get weather information to help in planning dispatch?

181	Yes
71	No

28. How do you compute travel time and distance?

16	Direct (as the crow flies) distance
129	Route distance
24	Historic traffic info on route
31	Real time info on traffic on route
59	Do not compute travel time and distance
	Other (please specify) see Appendix G

NATIONAL ITS STANDARDS:

List of standards to consider when deploying emergency management projects:

Traffic Management

Number of agencies

Using	Considering	
6	4	NTCIP 1202 - Object Definitions for Actuated Traffic Signal Controller Units
2	4	NTCIP 1210 - Objects for Signal Systems Master
6	7	NTCIP 1211 - Objects for Signal Control Priority

Freeway Management

Using	Considering	
0	4	NTCIP 1203 - Object Definitions for Dynamic Message Signs
0	2	NTCIP 1204 - Object Definitions for Environmental Sensor Stations
1	4	NTCIP 1205 - Objects for CCTV Camera Control
0	3	NTCIP 1206 - Object Definitions for Data Collection and Monitoring (DCM) Devices
0	1	NTCIP 1207 - Object Definitions for Ramp Meter Control
0	2	NTCIP 1208 - Object Definitions for Video Switches
0	2	NTCIP 1209 - Object Definitions for Transportation Sensor System
0	1	NTCIP 1213 - Electrical and Lighting Mgmt System Interoperability & Intercommunications Std
0	5	NTCIP 1301 - Weather Report Message Set for ESS

Advanced Transportation Controller

Using	Considering	
0	2	ITE 9603-1 - Application Programming Interface (API) Standard for the Advanced Transportation Controller (ATC)
0	2	ITE 9603-2 - Advanced Transportation Controller (ATC) Cabinet
0	2	ITE 9603-3 - Advanced Transportation Controller (ATC) Standard Specification for the Type 2070 Controller

Profiles and Base Standards

Using	Considering	
0	3	NTCIP 1201 - Global Object Definitions
0	2	NTCIP 1102 - Octet Encoding Rules (OER)
0	2	NTCIP 1103 - Transportation Management Protocol
0	1	NTCIP 1104 - CORBA Naming Convention Specification
0	1	NTCIP 1105 - CORBA Security Service Specification
0	2	NTCIP 1106 - CORBA Near-Real Time Data Service Specification
0	2	NTCIP 2101 - Point to Multi-Point Protocol Using RS-232 Subnetwork Profile
0	2	NTCIP 2102 - Subnetwork Profile for PMPP using FSK Modems
0	2	NTCIP 2103 - Subnet Profile for Point-to-Point Protocol using RS 232
0	2	NTCIP 2104 - Subnetwork Profile for Ethernet
0	2	NTCIP 2201 - Transportation Transport Profile
0	2	NTCIP 2202 - Transport Profile for Internet (TCP/IP and UDP)
0	2	NTCIP 2301 - Application Profile for Simple Transportation Management Framework (STMF)
0	1	NTCIP 2302 - Application Profile for Trivial File Transfer Protocol
0	1	NTCIP 2303 - Application Profile for File Transfer Protocol (FTP)
0	2	NTCIP 2304 - Application Profile for Data Exchange ASN.1 (DATEX)
0	1	NTCIP 2305 - Application Profile for Common Object Request Broker Architecture (CORBA)

NATIONAL ITS STANDARDS (cont.):

Number of agencies

Using	Considering	
0	1	NTCIP 8003 - Profiles - Framework and Classification of Profiles
0	2	NTCIP 9010 - XML Standard for Center-to-Center Communications
0	2	IEEE P1488 - IEEE Standard for Message Set Template for Intelligent Transportation Systems
0	2	IEEE P1489 - IEEE Standard for Data Dictionaries for Intelligent Transportation Systems - Part 1 Functional Area Data Dictionaries

Center-to-Center Communications

Using	Considering	
0	2	ITE TM 1.03 - Standard for Functional Level Traffic Management Data Dictionary (TMDD)
0	2	ITE TM 2.01 - Message Sets for External TMC Communication (MS/ETMCC)
0	2	NTCIP 1602 - Generic Reference Model for C2C Communications

Incident Management

Using	Considering	
1	5	IEEE 1512-2000 Standard for Common Incident Management Message Sets for use by Emergency Management Centers
0	3	IEEE P1512.1 - Standard for Traffic Incident Management Message Sets for Use by EMCs
1	2	IEEE P1512.2 - Standard for Public Safety Incident Management Message Sets for Use by EMCs
1	6	IEEE 1512.3-2000 - Standard for Hazardous Material Incident Management Message Sets for Use by Emergency Management Centers
0	4	IEEE 1512.4 - Standard for Emergency Management to Emergency Vehicle Subsystems Use by Emergency Management Centers
0	3	IEEE P1556 - Standard for Security and Privacy of Vehicle/Roadside Communication Including Smart Card Comm.

Advanced Traveler Information System

Using	Considering	
0	3	SAE J2354 - Message Set for Advanced Traveler Information System (ATIS)
0	3	SAE J2540-2 - ITIS Phrase Lists (International Traveler Information Systems)
0	3	SAE J2630 - Converting ATIS Message Standards from ASN.1 to XML

Transit

Using	Considering	
0	0	APTA - TCIP Dialogs
0	0	NTCIP 1400 - TCIP - Framework Standard
0	0	NTCIP 1401 - TCIP - Common Public Transportation (CPT) Business Area Standard
0	0	NTCIP 1402 - TCIP - Incident Management (IM) Business Area Standard
0	0	NTCIP 1403 - TCIP - Passenger Information (PI) Business Area Standard
0	0	NTCIP 1404 - TCIP - Scheduling/Runcutting (SCH) Business Area Standard
0	0	NTCIP 1405 - TCIP - Spatial Representation (SP) Business Area Standard
0	0	NTCIP 1406 - TCIP - Onboard (OB) Business Area Standard
0	0	NTCIP 1407 - TCIP - Control Center (CC) Business Area Standard
0	0	NTCIP 1408 - TCIP - Fare Collection (FC) Business Area Standard

Commercial Vehicle Operations

Using	Considering	
0	0	ANSI TS284 - Commercial Vehicle Safety Reports
0	0	ANSI TS285 - Commercial Vehicle Safety and Credentials Information Exchange
0	0	ANSI TS286 - Commercial Vehicle Credentials

Dedicated Short Range Communications

Number of agencies

Using	Considering	
0	1	IEEE 1609.1 - Standard for Dedicated Short Range Communications (DSRC) Resource Manager
0	1	IEEE 1609.2 - Standard for Dedicated Short Range Communications (DSRC) Application Layer
0	1	IEEE 1609.3 - Standard for IP Interface for Dedicated Short Range Communications (DSRC)
0	1	IEEE 1609.4 - Standard for Dedicated Short Range Communications (DSRC) Medium Access Control (MAC) Layer
0	2	E2213-02 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
0	1	SAE J2xxx - Standard for Data Dictionary and Message Sets for Dedicated Short Range Communications (DSRC)
0	1	E2158-01 Standard Specification for Dedicated Short Range Communication (DSRC) Physical Layer using Microwave in the 902 to 928 MHz Band
0	1	ASTM E17.54.00.1 - Standard Guidelines for Archiving ITS-Generated Data
0	1	PS 105-99: Standard Provisional Specification for Dedicated Short Range Communication (DSRC) Data Link Layer

Archived Data User Service (ADUS)

Using	Considering	
0	1	ASTM E2259-03 -Standard Guidelines for Archiving
0	1	ASTM E-17.54.02.1 Standard Specifications for Metadata Content for ITS-Generated Data
0	2	ASTM E-17.54.02.2 Standard Specifications for Archiving ITS-Related Traffic Monitoring Data

Location Referencing

Using	Considering	
0	2	SAE J2266 - Location Referencing Message Specification

30. What factors helped your agency decide to use ITS standards? Please pick top three factors, check only one item in each column.

Number of agencies

1	2	3	
0	1	0	Options offered in the standards
0	2	0	Products employ standards
2	0	1	Regional architecture document requirements
3	0	0	Additional funding provided
0	3	2	Integration opportunities
0	0	1	Consultant or integrator's recommendation
2	0	0	My agency's participation on standard committees
0	0	0	Training and Technical Assistance support provided by US DOT
0	0	2	Responding to the rule to use ITS Standards
0	0	0	Compliance testing is readily available

31. Do you feel that using the standards helped with the integration needs for your agency? Please list project name(s) next to each option.

Absolutely   see Appendix H

Somewhat   see Appendix I

Not exactly   see Appendix J

NATIONAL ITS STANDARDS (cont.):

32. If no ITS standards are currently used, what factors will ensure that your agency uses ITS standards? Please pick top three factors, check only one item in each column (if your are using standards, please move to the next question).

Number of agencies

1	2	3	
2	2	2	We are already committed to using standards when they are complete
3	1	1	Vendors provide standard-compliant products
5	1	1	Standards being accepted by the ITS community and being used in deployments
3	7	6	Training and technical support being provided to my agency
3	5	1	Standards are developed that apply to my system
7	8	6	Additional funding being provided to use the standards
2	1	8	Standards use enables interoperability of systems
			Other see Appendix K

33. What tool, resource, or support mechanism was/would be most helpful for implementing the standards? Please pick top three, check only one item in each column.

Number of agencies

1	2	3	
19	5	2	Training courses
7	7	1	Published standards provided for free
0	2	3	Published standards are easily available
1	6	4	Support documents (i.e. procurement and implementation guides) are available
3	4	1	Workshops
0	1	5	Standards Web site
0	0	1	Standards forum
1	3	1	Software tools to assist with correctly specifying and procuring the standard
1	0	1	E-mail bulletins
0	2	3	Resource documents (i.e., user guides and reference notebooks)
0	0	1	Testing tools
1	0	7	Case studies of other similar projects that used standards successfully
			Other see Appendix L

WEATHER:

34. Does your agency receive weather products tailored to your particular requirements?

97	Yes
149	No

Appendix A: Other agencies with which your agency shares information with

Agency	Agency shares with	Real-Time Data	After-The-Fact Data
Atlanta			
East Point City Fire Department	State of Georgia Fire Marshals Office	☐	☑
Buffalo, Niagara Falls			
Tonawanda City Fire Department	N.Y. Office of Fire Prevention and Control	☐	☑
Chattanooga			
Chattanooga Fire Department	CAD info with EMS	☑	☐
Cleveland, Akron, Lorain			
Parma City Fire Department (Emergency Medical)	NIFRS	☐	☑
Dallas, Fort Worth			
Carrollton City Fire Department	COG	☐	☐
Irving City Fire Department	Trauma and EMS	☐	☑
Irving City Fire Department (Emergency Medical)	Trauma Tracking	☐	☑
Texas Department of Transportation Dallas District	per requests	☐	☑
Texas Department of Transportation Fort Worth District (TransVISION)	Media	☑	☐
Greensboro, Winston-Salem, High Point			
Greensboro City Fire Department	Office of State Fire Marshal	☐	☑
Jackson			
Jackson City Fire Department	NFIR	☐	☑
Miami, Fort Lauderdale			
Fort Lauderdale City Fire Department	NFIRS	☐	☑
Modesto			
Modesto Fire Department	NFIRS to State	☐	☑
Nashville			
Nashville Fire Department-EMS Division	TN Dept of Health EMS	☐	☑
Phoenix			
Mesa City Fire Department	Other agencies would be notified either during or after the fact depending on the type of incident.	☑	☑

Appendix A: Other agencies with which your agency shares information with

Agency	Agency shares with	Real-Time Data	After-The-Fact Data
Scranton, Wilkes-Barre			
Scranton Fire Department	County Communication Center	☑	☐
Syracuse			
Brewerton Fire District	state office of fire prev. and control	☐	☑
Tampa, St. Petersburg, Clearwater			
Tampa City Fire Department	None	☐	☐
Temple Terrace Fire Department	Division of State Fire Marshal	☐	☑
Temple Terrace Fire Department - Emergency Medical	State Bureau of EMS	☐	☑
West Palm Beach, Boca Raton, Delray			
Boca Raton City Fire Department	state FM	☐	☑

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Albany, Schenectady, Troy	
Albany City Fire Department	company officer
Atlanta	
East Point City Fire Department	Im not sure if its a legal specification, but in East Point Ga. emergency scenes are managed through IMS (Federally reqirments) and its a combined effort through unified command
Union City Fire Department	Highest Ranking Official
Marietta City Fire Department	Fire Department
Roswell City Fire & Rescue	FIRE DEPT
Austin	
Austin City Fire Department	Joint Command
Boston, Lawrence, Salem	
Lawrence City Fire Department	Fire Department IC
Weymouth City Fire Department	Extrication - Fire Dept; No injuries or following extrication - Police Dept
Somerville City Fire Department	informal - fire dept. IC
Charleston	
North Charleston City Fire Department	Emergency Powers Act - Sr. fire official on the scene
Charlotte, Gastonia, Rock Hill	
Charlotte City Fire Department	Highway Patrol on the Interstate
Chicago, Gary, Lake County	
Elgin City Fire Department	EFD Battalion Chief
Cincinnati, Hamilton	
Hamilton City Fire Department	JURISDICITIONAL FIRE
Cleveland, Akron, Lorain	
Elyria City Fire Department	Fire if there is a hazard present or EMS is needed.
Parma City Fire Department	The ranking fire official
Dallas, Fort Worth	
Mesquite City Fire Department	Incident Commander
Richardson City Fire Department	Jurisdictional

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Denver, Boulder	
Boulder City Fire Department	State Patrol on state roads & FD on local roads
Westminster City Fire Department	incident commander
Detroit, Ann Arbor	
Dearborn Heights Fire Department	Police Dept.
Livonia City Fire & EMS Department	Fire has command during rescue, fire or hazardous materials mitigation. Police assumes command afterward.
Pontiac City Fire Department	Pontiac fire department is the incident commander on all traffic incidents within city limits.
Rochester Hills City Fire Department	Traffic Movement PD - Patient care and scene safety FD
Sterling Heights City Fire Department	Law enforcement
Taylor City Fire Department	Fire Department Incident Commander
Troy City Fire Department	Depends on nature of incident- Fire for hazardous materials/fire- law enforcement for traffic crash/crime EMS for injuries
Warren City Fire Department	Depending on type of on scene incident
El Paso	
El Paso City Fire Department	Fire Department
Greensboro, Winston-Salem, High Point	
Greensboro City Fire Department	Law Enforcement
High Point City Fire Department	Police
Greenville, Spartanburg	
Spartanburg Public Safety	Fire service is in charge during life safety phase, police in charge during investigatory phase.
Westview-Fairforest Fire Department	Emergency Powers Act
Hartford, New Britain, Middletown	
Manchester City Fire Department	The highest ranking fire officer on the scene is in charge of the incident per state statute.
West Hartford Town Fire Department	Fire Service Representative
Houston, Galveston, Brazoria	
Liberty Fire Department	On Incident Commander
Jacksonville	
Jacksonville Fire & Rescue Department	Unified command

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Kansas City	
Johnson County Med-Act	Fire Department
Olathe City Fire Department	Highest ranking fire officer. Usually the Battalion Chief.
Knoxville	
Knoxville City Fire Department	Fire Officer
Little Rock, North Little Rock	
Little Rock City Fire Department	lAW ENFORCEMENT TRADIONALLY TAKES THIS ROLE
Los Angeles, Anaheim, Riverside	
Santa Ana City Fire Department	Depends on whether incident is on State controlled property or City property. Fire has jurisdiction on City Property and CHP has control on State Property.
Memphis	
Memphis City Fire Department	unknown
Miami, Fort Lauderdale	
Coral Springs Fire & EMS Department	Highest ranking Fire Officer
Hollywood Fire & EMS Department	Fire IC of the municipality where the incident is located.
Pembroke Pines City Fire/Rescue	IC is ranking officer in JHA
Pompano Beach City Fire Rescue	Fire Rescue is most cases, except where law enforcement issues have higher life safety priority (i.e. weapons, dangerous patients, etx.)
Milwaukee, Racine	
Racine City Fire & EMS Department	Battallion Chief
Minneapolis, St. Paul	
Brooklyn Park City Fire Department	Police or State Patrol depending on the ownership of the road.
Coon Rapids City Fire Department	Law Enforcement agency
New Haven, Meriden	
Meriden City Fire Department	Local police within city limits. State police on state highways.
New York, Northern New Jersey, Southwestern Connecticut	
Elizabeth City Fire Department(NJ)	Law Enforcement - Either the Elizabeth Police Department or the New Jersey State Police

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Orlando	
Orlando Fire Department	First due engine/tower Lieutenant
Phoenix	
Chandler City Fire Department	It is understood by PD and DPS, that with a traffic accident with injuries, FD is always in charge of the scene in regards to patient and hazard care. Once the hazards and patient care is done the scene is in PDs hands.
Mesa City Fire Department	It is unknown if there is a legal specification, however the IMS specifies who assumes command.
Pittsburgh, Beaver Valley	
Penn Hills Fire Department	depends on type of call i.e. Rescue/Spill-Pickup/Standby/etc.
Portland, Vancouver	
Vancouver City Fire Department	Typically the IC will be from the fire department. Washington State Patrol has jurisdiction on the highway system.
Providence, Pawtucket, Fall River	
Providence Fire Department	Fire Dept. until pt. care has ended
Raleigh-Durham	
Durham City Fire Department	The senior fire officer on the scene
Rochester	
Greece Fire Department	Fire Officer
Salt Lake City, Ogden	
West Valley City Fire & EMS Department	First arriving -- Until highest ranking arrives -- FA may retain or highest ranking may take command -- Highest ranking BC and above always take command at major events i.e., traffic, fire, Hazmat, tech/rescue, etc.
San Francisco, Oakland, San Jose	
Fremont City Fire Department	The public safety agency with investigative responsibility
Seattle, Tacoma	
Bellevue City Fire Department	Washington State Patrol for incidents on Washington State highways and local police for county and city roadways.
Seattle City Fire Department	If injuries or rescue involved. Seattle Fire Department is IC. If Hazmat, Seattle Fire is IC.
Tampa, St. Petersburg, Clearwater	
Largo Fire & EMS Department	Fire Rescue Commander
Tampa City Fire Department	Incident Commander

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Tucson	
Tucson City Fire Department	The incident commander from the jurisdiction having authority
Tulsa	
Tulsa Area Emergency Management Agency	OHP or Tulsa PD or Tul. Co. SO depending on which jurisdiction or road
West Palm Beach, Boca Raton, Delray	
Boca Raton City Fire Department	Local Fire Rescue Incident Commander
West Palm Beach City Fire & EMS Department	Fire Rescue on all but State roads. Florida Highway Patrol on State Roads
Wichita	
Wichita City Fire Department	Fire Department until patient has ben packaged and transported and hazard abatement has occurred.
Dallas, Fort Worth	
Rural/Metro Ambulance - City	Law enforcement
Plano City Fire & EMS Department	Incident Commander
Oklahoma City	
Midwest Regional Medical Center	Police agencies
Tampa, St. Petersburg, Clearwater	
Temple Terrace Fire Department	State - Emergency Mgmt.
Dallas, Fort Worth	
Irving City Fire Department (Emergency Medical)	Fire Department takes over upon arrival. Both fire/ems and police participate in command.
Miami, Fort Lauderdale	
Hollywood Rescue Department - Beach Safety	To my knowledge its the IC of the AHJ unless the accident occurs on a DOT roadway.
Allentown, Bethlehem, Easton	
Allentown City Emergency Medical Services	PD
Boston, Lawrence, Salem	
Cambridge City Fire & EMS Department	Incident specific, generally Fire for accidents involving EMS, fire, or extrication situations.
Hampton Roads	
Virginia Beach City Emergency Medical Services	Police

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
New York, Northern New Jersey, Southwestern Connecticut	
Norwalk City Fire Department(CT)	fire
Philadelphia, Wilmington, Trenton	
Trenton City Fire & EMS Department	Ranking Police official
Wilmington City Fire Department	Wilmington Fire Dept.
Providence, Pawtucket, Fall River	
Providence Emergency Medical Services	Fire Dept. until pt. care has ended
Washington	
Alexandria City Fire & EMS	fire department until victims are removed then turned over to police
Albuquerque	
Albuquerque City Fire Department	First on scene unit officer. Until another senior ranking officer arrives.
Chicago, Gary, Lake County	
Joliet City Fire Department	Fire if there is a patient
Evergreen Park Fire Department	fire incident commander
Evergreen Park Fire Department (Emergency Medical)	fire incident commander
Skokie Village Fire Prevention Bureau (Emergency Medical)	incident commander
Cincinnati, Hamilton	
Cincinnati City Fire Department (Emergency Medical)	Cincinnati Police Department
Cleveland, Akron, Lorain	
Cleveland City Emergency Medical Services	Usually Fire Chief but can change among other safety forces based on unified command
Parma City Fire Department (Emergency Medical)	Not sure of specific law- Ranking fire official has been practice
Detroit, Ann Arbor	
Troy City Fire Department (Emergency Medical)	Fire or police depending on nature of emergency
Bakersfield	
Bakersfield City Fire Department	California Highway Patrol on State Roads and local police on city roads

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
San Diego	
Escondido City Fire Department	Law Enforcementagency having authority
Escondido City Emergency Medical Services	Local Law or Law Agency having Jurisdiction
San Francisco, Oakland, San Jose	
Freeway Service Patrol-Caltrans District 4	On State Right of Way - California Highway Patrol Off State Right of Way - Local police/sheriff
Seattle, Tacoma	
Bellevue City Fire Department (Emergency Medical)	Washington State Patrol on State Highways and local police or fire department within the City of Bellevue.
Washington	
DC Fire Department (EMS)	Senior Fire Officer on-scene
Fresno	
Fresno City Fire Department	Law Enforcement
Las Vegas	
Las Vegas City Fire & Rescue Department	Authority Having Jurisdiction - Usually Law Enforcement Agency
Syracuse	
Brewerton Fire District	incident commander - fire: fire, explosion, ems police: investigate, security
Montgomery	
Montgomery City Fire Department	Police Chief
Stockton	
Stockton Fire Department	CHP on State roadways. Sherriff on County roadways. Fire on all other areas.
Springfield(MO)	
Springfield Fire Department	law enforcement
Asheville	
Asheville Fire and Rescue Department	Dependent upon the incident.
Reno	
Reno Fire Department	Fire
Eugene	
Eugene Fire Department	Fire or law enforcement, depending on situation

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Chattanooga	
Chattanooga Fire Department	Tennessee Code Annotated 6-21-703.
Provo - Orem	
Provo Fire Department	In the case of a state road/highway, Utah Highway Patrol is IC.
Spokane	
Spokane City Fire Department	State Patrol if on state roads.
New London	
Norwich City Fire Department	Fire Chief
Daytona Beach	
Deltona City Fire Department	Senior fire officer until hazards are removed. Scene then turned over to law enforcement
Jackson	
Jackson City Fire Department	INDCIDENT COMMANDER
Eugene	
Springfield Fire Department	FIRE/RESCUE for patient care an dtransportation, Police for overall scene, State Dept of Tranpsortation for traffic decisions, using unified command
Boise City	
Boise City Fire Department	Incident Commander
Pensacola	
Pensacola Fire Department	Fire - Senior Fire Officer Other - Law Enforcement
Reno	
Sparks City Fire Department	Highway Patrol on Highways, City Police on city streets
Columbia	
Columbia City Fire Department	The Fire Department if there is a fire, vehicle extrication to perform or hazardous materials problem. Otherwise, law enforcement is in charge.
Roanoke	
Roanoke City Fire Department	Authority Having Jurisdiction
Beaumont-Port Arthur	
Port Arthur City Fire Department	DPS

Appendix B: Who is in charge at the scene of a traffic incident

Agency	In charge
Bellingham	
Bellingham City Fire Department	On the freeway State Patrol
Stockton	
Manteca City Fire Department	Law Enforcement
Lodi City Fire Department	Depends upon where the accident happens, Fire departments take care of medical and fire related issues, PD takes care of investigation.
Salinas	
Seaside City Fire Department	Law Enforcement
San Luis Obispo	
San Luis Obispo City Fire Department	CHP on freeways, local jurisdiction on others

Appendix C: Policies or procedures to facilitate quick removal of heavily damaged vehicles

Agency	Policy/procedure
Atlanta	
Marietta City Fire Department	We have contacts with local vehicle salvage companies to assist in the process of removing vehicle. Removing contents depends on shipping companies assistance.
Austin	
Austin City Fire Department	Wreckers staged during drive/commute time to speed their response and removal of damaged vehicles. This is only for regular passanger auto size vehicles, not tractor trailers
Boston, Lawrence, Salem	
Lawrence City Fire Department	Towing company notified
Somerville City Fire Department	written agreement with pat's tow
Chicago, Gary, Lake County	
Hammond City Fire Department	80/94 has a emergency resonce committee thatmeets biweekly that includes fire departments state police, tepartment of transportation and contracted towing companies that are given training in Haz-Mat incidents.
Skokie Village Fire Prevention Bureau	lOCAL LAW ENFORCEMENT MANAGES THE SCENE AND APPROPRIATE REMOVAL. FIRE AND RESCUE ONLY STAND BY IN CASE OF IGNITION OR SPILL.
Cleveland, Akron, Lorain	
Parma City Fire Department	The police have always had the vehicles removed in a timley fashion
Dallas, Fort Worth	
Irving City Fire Department	We have contracts with towing services, and haz-mat remediation services
Denver, Boulder	
Aurora City Fire Department	We contact Aurora Police. They notify personnel who remove the vehicles.
Boulder City Fire Department	Police handles this for the city.
Westminster City Fire Department	u.s 36 incident managment plan
Detroit, Ann Arbor	
Dearborn Heights Fire Department	Police Dept. has contract with towing company
Pontiac City Fire Department	PFD is in charge of incident PPD facilitates removal of vehicles
Sterling Heights City Fire Department	Call for local agency to remove
Warren City Fire Department	Signed contracts with vehicle removal companies

Appendix C: Policies or procedures to facilitate quick removal of heavily damaged vehicles

Agency	Policy/procedure
El Paso	
El Paso City Fire Department	City has wrecker service contract with El Paso Towing Inc.
Greensboro, Winston-Salem, High Point	
Winston-Salem Fire Department	Local wrecker services are set up to move vehicles. This is facilitated via Responders and the Office of Emergency Management
Greenville, Spartanburg	
Spartanburg Public Safety	Local police agencies have on call a list of wreckers that are used to remove damaged vehicles.
Jacksonville	
Jacksonville Fire & Rescue Department	The local law enforcement deals with the incident
Memphis	
Memphis City Fire Department	unknown
Miami, Fort Lauderdale	
Coral Springs Fire & EMS Department	List is kept up in Dispatch for removal of vehicles
Milwaukee, Racine	
Racine City Fire & EMS Department	Police Department handles with Call-down list of towing services
New York, Northern New Jersey, Southwestern Connecticut	
Elizabeth City Fire Department(NJ)	Vehicle removal is coordinated through law enforcement using a third party towing/removal agency.
Orlando	
Orlando Fire Department	Quick removal to side of road
Phoenix	
Chandler City Fire Department	Need to ask police.
Mesa City Fire Department	A list of Towing Comapnies is maintained and companies are rotated when calls for service are needed.
Pittsburgh, Beaver Valley	
Penn Hills Fire Department	Police tow truck units
Portland, Vancouver	
Vancouver City Fire Department	Law enforcement will have vehicles towed immediately if they are considered a hazard. Vehicles not necessarily a hazard will generally be towed after 24 hours.

Appendix C: Policies or procedures to facilitate quick removal of heavily damaged vehicles

Agency	Policy/procedure
Providence, Pawtucket, Fall River	
Providence Fire Department	1st Fire Dept. treats/transports injured people. 2nd Police dept. facilitates removal of vehicles.
Raleigh-Durham	
Durham City Fire Department	There is a state general statute that gives the fire department authority to move all vehicles from the roadway that do not involve any transportable injuries. A fire department official must remain on the scene until a law enforcement offical arrives on scene if a vehicle is moved.
Rochester	
Irondequoit Fire Department	police dept has a towing ontract with a service
Seattle, Tacoma	
Federal Way City Fire Department	Procedure only, no policy; Local Police summon the appropriate apparatus for towing or removal of the vehicles.
Tampa, St. Petersburg, Clearwater	
Largo Fire & EMS Department	Coordination with law enforcement
Tucson	
Tucson City Fire Department	We have a contract with a wrecker company that can provide a variety of tow vehicles in a timely manner
Tulsa	
Tulsa Area Emergency Management Agency	Look at TPD procedures for further
West Palm Beach, Boca Raton, Delray	
Boca Raton City Fire Department	In town -- local towing contract with City On the Interstate the Florida Highway Patrol and Road Rangers in Palm Beach County handle removal.
Oklahoma City	
Midwest Regional Medical Center	Managed by Hazmat Fire Services
Dallas, Fort Worth	
Irving City Fire Department (Emergency Medical)	We have contracts with towing, haz-mat remediation, and etc. to get the roadways cleared as soon as possible.
Buffalo, Niagara Falls	
Tonawanda City Fire Department	Police department prodedures dictate that a local towing company (under contract) be notified ASAP to facilitate this.
Tonawanda City Emergency Medical Services	Contract with local towing agency

Appendix C: Policies or procedures to facilitate quick removal of heavily damaged vehicles

Agency	Policy/procedure
New York, Northern New Jersey, Southwestern Connecticut	
Clifton City Fire Department (EMS)(NJ)	through police - towing companies are contacted as needed
Norwalk City Fire Department(CT)	we have agencies lined up to remove damaged vehicles & cargoes
Philadelphia, Wilmington, Trenton	
Wilmington City Fire Department	Wilmington P.D. makes notification to towing companies under contract to the City of Wilmington for quick removal.
Providence, Pawtucket, Fall River	
Providence Emergency Medical Services	1st Fire Dept. treats/transports injured. 2nd Police Dept. facilitate removal of vehicles.
Washington	
Alexandria City Fire & EMS	handled by VDOT
Chicago, Gary, Lake County	
Aurora City Fire & EMS Department(Fire)	911 dispatch center maintains a list of available towing companies.
Joliet City Fire Department	Our HazMat Team works with several local contractors in these cases
Skokie Village Fire Prevention Bureau (Emergency Medical)	police have contract with tow company
Cleveland, Akron, Lorain	
Parma City Fire Department (Emergency Medical)	The police have the vehicles removed asap
Washington	
DC Fire Department (EMS)	Police contact heavy wrecker cos.
Syracuse	
Brewerton Fire District	Police agency contacts or shipper must contact depending on loads and types of vehicles.
Asheville	
Asheville Fire and Rescue Department	Fender Bender - remove vehicles from roadway.
Chattanooga	
Chattanooga Fire Department	The purpose of the Chattanooga Urban Area Highway Incident Management Plan is to provide a framework in which to implement traffic operations and management measures which increase the abilities of local governments to respond to highway incidents in a safe and efficient manner. -Chattanooga Urban Area Highway Incident Management Plan

Appendix C: Policies or procedures to facilitate quick removal of heavily damaged vehicles

Agency	Policy/procedure
Boise City	
Boise City Fire Department	Discretion of I.C.
Reno	
Sparks City Fire Department	Contract on-call wrecker services are contacted by police & fire agencies
Roanoke	
Roanoke City Fire Department	On-scene command (police) can order removal

Appendix D: Other methods of interfacing with Traffic Management

Agency	Method
Boston, Lawrence, Salem	
Lawrence City Fire Department	Traffic lights are under the control of the Fire Department, repair, control, maintenance.
Charleston	
North Charleston City Fire Department	Incident Command System
Chicago, Gary, Lake County	
Hammond City Fire Department	group Nextel and radio
Dallas, Fort Worth	
Richardson City Fire Department	Through dispatch
El Paso	
El Paso City Fire Department	TXDOT has traffic cameras mounted on major thoroughfares, which are monitored by Fire Dispatch.
Portland, Vancouver	
Vancouver City Fire Department	We meet on a regular basis and discuss issues.
San Francisco, Oakland, San Jose	
Fremont City Fire Department	Only at requested meetings
West Palm Beach, Boca Raton, Delray	
Delray Beach Fire Department	Internet
New York, Northern New Jersey, Southwestern Connecticut	
Clifton City Fire Department (EMS)(NJ)	radio
Chicago, Gary, Lake County	
Burbank Fire Department	central dispatch office
Nashville	
Nashville Fire Department	Public Works Department
Des Moines	
Des Moines Fire Department	Multimedia video sharing is planned for implementation soon.
Spokane	
Spokane City Fire Department	Can do through dispatch center if necessary, but it does not occur very often.
Pensacola	
Pensacola Fire Department	no interface

Appendix E: Other types of ACN data

Agency	Type
Boston, Lawrence, Salem	
Lawrence City Fire Department	no
Kansas City	
Johnson County Med-Act	Any if ACN is provided to our dispatcher who wil rely that to on-scene units
Memphis	
Memphis City Fire Department	unknown
Houston, Galveston, Brazoria	
Fort Bend Ambulance	cross country automotive
Nashville	
Nashville Fire Department	Dont know

Appendix F: Other types of telemedicine capability

Agency	Type
New York, Northern New Jersey, Southwestern Connecticut	
Norwalk City Fire Department(CT)	dont know
Albuquerque	
Albuquerque City Fire Department	Radio
Cleveland, Akron, Lorain	
Parma City Fire Department (Emergency Medical)	Cell phone and radio communications with hospitals. Presently working on telemetry for 12 lead ekg.
Pensacola	
Pensacola Fire Department	No ambulances

Appendix G: Other methods of computing travel time and distance

Agency	Method
Boston, Lawrence, Salem	
Lawrence City Fire Department	Documentation from other response calls.
Somerville City Fire Department	radio reports - arrival/termination times
Dallas, Fort Worth	
Richardson City Fire Department	Clock Odometer
El Paso	
El Paso City Fire Department	AVL
Milwaukee, Racine	
Waukesha City Fire & EMS Department	Travel time is established by radio communication with distach when appartus is inservice and onscene. Mileage is recorded using the apparatus odometer.
Orlando	
Orlando Fire Department	Dispatchers through cad
Phoenix	
Mesa City Fire Department	Route Time
Phoenix City Fire & EMS Department	RIGHT TRIANGLE FROM INC LOCATIONTO RESPONDERS
Portland, Vancouver	
Vancouver City Fire Department	Combination of historic data and computer program.
Seattle, Tacoma	
Seattle City Fire Department	ADAM computer modeling and historic info.
Tampa, St. Petersburg, Clearwater	
Clearwater Fire & Rescue (Emergency Medical)	software program
Cleveland, Akron, Lorain	
Parma City Fire Department (Emergency Medical)	visual of odometer
San Diego	
Escondido City Fire Department	Only after the incident.
Stockton	
Stockton Fire Department	We are in the beginning stages of Fire View which computes traffic speed limits and flow to determine times.
Asheville	
Asheville Fire and Rescue Department	Standard time distance formula T=1.7(d)+.65

Appendix G: Other methods of computing travel time and distance

Agency	Method
Spokane	
Spokane City Fire Department	Travel times are actual times from when the unit goes enroute until they arrive at scene. We do not measure distances, just estimate them.

Appendix H: Projects where using standards Absolutely helped with the integration needs

Agency	Project
Charleston	
North Charleston City Fire Department	n/a
Denver, Boulder	
Westminster City Fire Department	U.S 36 Incident management plan sponsored by CDot
Dallas, Fort Worth	
Rural/Metro Ambulance - City	We anticipate that using the standards will facilitate integration. We have not performed any integration yet.

Appendix I: Projects where using standards Somewhat helped with the integration needs

Agency	Project
Charleston	
North Charleston City Fire Department	n/a

Appendix J: Projects where using standards Not Exactly helped with the integration needs

Agency	Project
Charleston	
North Charleston City Fire Department	n/a
Dallas, Fort Worth	
Mesquite City Fire Department	Our Agency participates and follows the lead of our Metropolitan Planning Organization and the Texas Department of Transportation.

Appendix K: Other factors that will ensure the use of ITS standards

Agency	First	Second	Third
Dallas, Fort Worth			
Irving City Fire Department (Emergency Medical)	Traffic division would determine.		
Pensacola			
Pensacola Fire Department	unsure		
Portland, Vancouver			
Portland City Fire & Rescue Department	Portland DOT		

Appendix L: Other tools that were/would be helpful for implementing ITS standards

Agency	First	Second	Third
Dallas, Fort Worth			
Irving City Fire Department (Emergency Medical)	Traffic Dept. would determine		
Portland, Vancouver			
Portland City Fire & Rescue Department	Portland DOT		