Metropolitan Intelligent Transportation Systems (ITS) Infrastructure 2004 Transit Management Survey

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Section I

FLEET CHARACTERISTICS

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

1. Total number of vehicles used in revenue service:

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Bus:				
Heavy or Rapid Rail:				
Light Rail:				
Demand Responsive:				
Commuter Rail:				
Ferry Boat:				

2. Total number of vehicles equipped with Automated Vehicle Location (AVL):

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Bus:				
Heavy or Rapid Rail:				
Light Rail:				
Demand Responsive:				
Commuter Rail:				
Ferry Boat:				

3. Total number of vehicles with real-time monitoring of vehicle components:

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Bus:				
Heavy or Rapid Rail:				
Light Rail:				
Demand Responsive:				
Commuter Rail:				
Ferry Boat:				

4. Total number of vehicles equipped with mobile data terminals:

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Bus:				
Heavy or Rapid Rail:				
Light Rail:				
Demand Responsive:				
Commuter Rail:				
Ferry Boat:				

5. Total number of vehicles that have Automatic Passenger Counters (Do not include registering fareboxes):

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Bus:				
Heavy or Rapid Rail:				
Light Rail:				
Demand Responsive:				
Commuter Rail:				
Ferry Boat:				

6. Total number of vehicles where automated dispatching or control software* is available:

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Bus:				
Heavy or Rapid Rail:				
Light Rail:				
Demand Responsive:				
Commuter Rail:				
Ferry Boat:				

* Software that displays AVL-equipped vehicle locations, vehicle data, and operator data on dispatcher monitors, automated control software for light or heavy rail systems, or automated scheduling software for demand responsive service.

MOTOR VEHICLE OPERATED AS VEHICLE PROBES:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

	Total in 2002	2005 estimate in 2002	Total in 2004	Estimated total by 2005
7. Motor buses used as probes to collect travel time, speed, and conditions on FREEWAYS:	☐	☐	☐	☐
8. Motor buses used as probes to collect travel time, speed, and conditions on ARTERIALS:	☐	☐	☐	☐

ORGANIZED REGIONAL INCIDENT MANAGEMENT PROGRAM:

		2002 Response	2005 Estimate in 2002	2004 Response	2005 Estimate
9. Does your agency's operators or dispatchers report traffic incidents (e.g., stalled vehicles, crashes)?	Yes: ☐		☐	☐	☐
	No: ☐		☐	☐	☐

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

	2002 Response	2004 Response
Yes	☐	☐
No	☐	☐
Don't know	☐	☐

ADVANCED TRAVELER INFORMATION SYSTEM (ATIS):

		2002 Response	2005 Estimate in 2002	2004 Response	2005 Estimate
11. Does your agency have an Advanced Traveler Information System (ATIS)?	Yes: ☐		☐	☐	☐
	No: ☐		☐	☐	☐

12. Services the advanced traveler information system applies or will apply to:

	2002 Response	2005 Estimate in 2002	2004 Response	2005 Estimate
Fixed Route Bus: ☐	☐	☐	☐	
Heavy of Rapid Rail: ☐	☐	☐	☐	
Light Rail: ☐	☐	☐	☐	
Demand Responsive: ☐	☐	☐	☐	
Commuter Rail: ☐	☐	☐	☐	
Ferry Boat: ☐	☐	☐	☐	

		2002 Response	2005 Estimate in 2002	2004 Response	2005 Estimate
13. Is or will the ATIS be multi-carrier/multi-modal with other transit operators?	Yes: ☐		☐	☐	☐
	No: ☐		☐	☐	☐
14. Is or will the ATIS be multi-carrier/multi-modal with highway information?	Yes: ☐		☐	☐	☐
	No: ☐		☐	☐	☐

ADVANCED TRAVELER INFORMATION SYSTEM (ATIS) (Cont.):

15. Please check all the methods your agency uses, or will use, to disseminate information to the public:

	Methods used to disseminate Transit Routes, Schedules, and Fare Information to the public:				Methods used to disseminate Real-time Transit schedule adherence or Arrival and Departure Times to the public:			
	2002 Response		2004 Response		2002 Response		2004 Response	
	In 2002	by 2005	In 2004	by 2005	In 2002	by 2005	In 2004	by 2005
Dedicated cable TV:	☐	☐	☐	☐	☐	☐	☐	☐
Automated telephone system:	☐	☐	☐	☐	☐	☐	☐	☐
Internet Web sites	☐	☐	☐	☐	☐	☐	☐	☐
Pagers or personal data assistants:	☐	☐	☐	☐	☐	☐	☐	☐
Interactive TV:	☐	☐	☐	☐	☐	☐	☐	☐
Kiosks:	☐	☐	☐	☐	☐	☐	☐	☐
E-mail or other direct PC communication:	☐	☐	☐	☐	☐	☐	☐	☐
In-vehicle navigation systems:	☐	☐	☐	☐	☐	☐	☐	☐
Variable Message Signs (in vehicle):	☐	☐	☐	☐	☐	☐	☐	☐
Monitors/VMS (not in vehicles):	☐	☐	☐	☐	☐	☐	☐	☐
Audible Enunciators:	☐	☐	☐	☐	☐	☐	☐	☐
Facsimile:	☐	☐	☐	☐	☐	☐	☐	☐
511 Telephone System:	☐	☐	☐	☐	☐	☐	☐	☐
Automated web-based trip planner:			☐	☐	N/A	N/A	☐	☐
Other:			☐	☐	N/A	N/A	N/A	N/A

	Total locations in 2002	2002 estimated total locations by 2005	Total locations in 2004	2004 estimated total locations by 2005
16. Total number of bus stops:	☐	☐	☐	☐
17. Number of bus stops that electronically display or will display automated and dynamic traveler information to the public:	☐	☐	☐	☐
18. Total number of rail stations:			☐	☐
19. Number of rail stations that electronically display or will display automated and dynamic traveler information to the public:			☐	☐

TRAFFIC SIGNAL PRIORITY:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
20. Number of Fixed Route Buses that have or will have traffic signal priority capability:	☐	☐	☐	☐
21. Number of Light Rail vehicles that have or will have traffic signal priority capability:	☐	☐	☐	☐
22. Number of Demand Responsive vehicles that have or will have traffic signal priority capability:	☐	☐	☐	☐

RAMP METER SIGNAL PRIORITY:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
23. Number of Fixed Route Buses with ramp meter signal priority capability:	☐	☐	☐	☐
24. Number of Demand Responsive vehicles with ramp meter signal priority capablity:	☐	☐	☐	☐

ELECTRONIC FARE PAYMENT:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

	25. Vehicles/Stations equipped with Magnetic Stripe Readers				26. Vehicle/Stations equipped with Smart Card Readers (with embedded computer chip)			
	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005	Total in 2002	2002 estimated total by 2005	Total in 2004	2004 estimated total by 2005
Fixed Route Buses:	☐	☐	☐	☐	☐	☐	☐	☐
Heavy or Rapid Rail Stations:	☐	☐	☐	☐	☐	☐	☐	☐
Light-Rail Stations:	☐	☐	☐	☐	☐	☐	☐	☐
Demand Responsive Vehicles:	☐	☐	☐	☐	☐	☐	☐	☐
Commuter Rail Stations:	☐	☐	☐	☐	☐	☐	☐	☐
Ferry Boat Landings:	☐	☐	☐	☐	☐	☐	☐	☐

	2002 Response	2005 estimate in 2002	2004 Response	2005 Estimate
27. Is the fare paid by electronic fare payment by monthly pass only?	Yes ☐ No ☐	☐ ☐	☐ ☐	☐ ☐
28. Does your agency electronically store collected fare payment data for use in route and service planning?	Yes ☐ No ☐	☐ ☐	☐ ☐	☐ ☐

29. Are there or will there be by 2005 any other Transit Agencies in your metropolitan area that use the same electronic fare payment system that can be used to pay for your transit fares?

	2002 Response	2005 estimate in 2002	2004 Response	2005 Estimate
Yes, please list them in the space provided	☐	☐	☐	☐

[blank box]

	2002 Response	2005 estimate in 2002	2004 Response	2005 Estimate
No, there are no other Transit Agencies	☐	☐	☐	☐
No	☐	☐	☐	☐

ELECTRONIC FARE PAYMENT (Cont.):

30. Are there or will there be by 2005 any Toll Collection Operators in your metropolitan area that use electronic toll collection media (e.g., EZ PASS) that can be used to pay for your transit fares?

	2002 Response	2005 estimate in 2002	2004 Response	2005 Estimate
Yes, please list them in the space provided	☐	☐	☐	☐
No, there is no Toll Collection	☐	☐	☐	☐
No	☐	☐	☐	☐

31. Does your agency coordinate billiing with social service agencies?

☐ Yes
☐ No

SECURITY:

32. How many of your BUSES are equipped, or will be equipped, with the following security devices?

	2002 Respons	2002 Estimate in 2002	In 2004	2005 Estimate
Silent alarms:				
Cameras:				
Covert microphones:				
Remote disabling system:	N/A	N/A		
Other:				

33. How many of your RAIL VEHICLES are equipped, or will be equipped, with the following security devices?

	In 2004	2005 Estimate
Silent alarms:		
Cameras:		
Covert microphones:		
Other:		

34. How many of your RAIL STATIONS are equipped, or will be equipped, with the following security devices?

	In 2004	2005 Estimate
Silent alarms:		
Cameras:		
Covert microphones:		
Other:		

35. Does your agency have electronic ID cards for employees?

☐ Yes
☐ No

COMMUNICATIONS TECHNOLOGY:

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

36. What type of radio system does your agency have?

	2002 Response	2005 Estimate in 2002	2004 Response	2005 Estimate
Radio system is Digital:	☐	☐	☐	☐
Radio system is Analog:	☐	☐	☐	☐
Radio system is Regular	☐	☐	☐	☐
Radio system is Trunked:	☐	☐	☐	☐

37. If you are planning or need to update your mobile communications system, what alternative are you thinking about?

☐ Updating your 150 or 450 MHz to a digital system
☐ Converting to a dedicated 800 MHz system?
☐ Joining an area wide 800 MHz system?
☐ No updates planned at this time

38. How do you now communicate with public safety agencies?

☐ Have a dedicated radio channel
☐ No direct means of communicating via the mobile communications system
☐ A partner in a joint interoperable system
☐ Do not communicate with public safety agencies

39. Are you considering adding the capability of interoperability with public safety agencies?

☐ By use of a communication switch (such as the ACU-1000 or other brand)
☐ By becoming part of an area wide interoperable system
☐ No

INTEGRATION:

40. Does your agency coordinate or will coordinate by 2005 travel requests and vehicle dispatching for multiple agencies (e.g., social service agencies, HHS, other transit agencies, etc.)?

	2002 Response	2004 Response
Yes	☐	☐
No, and do not plan to do so 2005	☐	☐
No, but plan to do so by 2005	☐	☐

41. Is there technology in place to coordinate rail, bus, and demand response services?

☐ No
☐ Connection protection software
☐ Technology to support using demand response assets to feed fixed route services
☐ Other: _____
☐ Don't know

42. Is there or will there be by 2005 a Transportation Management Center (TMC) that controls transit and highway modes (e.g. rail operations, traffic signals, message signs, incident management, etc.) in your metropolitan area?

☐ Yes, including rail operations
☐ Yes, but it is primarily oriented to traffic
☐ No, and do not plan to have a TMC by 2005
☐ No, but plan to have a TMC by 2005
☐ Don't know

43. Is there a regional ITS architecture for your region?

    ☐ Yes, complete
    ☐ In progress, to be completed in calendar year: [＿＿＿＿＿]
    ☐ Not aware of an existing or planned regional architecture

WEATHER:

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

    ☐ Yes
    ☐ No

EVALUATION:

45. The U.S. DOT is interested in networking with evaluators of Intelligent Transportation Systems (ITS) nationwide. Is there a point of contact in your state for ITS evaluations?

    ☐ Yes. Please provide the name, e-mail, and phone number

    ☐ No
    ☐ Don't know

46. The U.S. DOT ITS JPO actively collects data on the benefits and costs of ITS implementations and makes this information available at the following URL: http://www.benefitcost.its.dot.gov/. Are you aware of any locally produced and funded evaluations that could be added to this national database?

    ☐ Yes. Please provide a point of contact (name, phone number and e-mail) or reference (e.g., URL) for the evaluation report.

    ☐ No
    ☐ Don't know

COST AND BENEFITS:

47. Is your agency willing to share COST information on ITS-related equipment and projects (i.e., capital and O&M cost, project component breakdown, and brief description)? This information will be used to update the ITS JPO sponsored ITS costs database.

    ☐ Yes. Please provide name, phone number, and e-mail of the cost information contact if different from respondent. This person will be contacted for the cost information at a later date.

    ☐ No

48. Is your agency willing to share BENEFITS information from ITS deployments? This information will be used to update the ITS JPO sponsored ITS benefits database.

    ☐ Yes. Please provide name and phone number of the benefits information contact if different from respondent. This person will be contacted for the benefits information at a later date.

    ☐ No

Section II

DATA COLLECTION AND ARCHIVING:

49. Does your agency have an archived data management system?

☐ Yes, how long have you been archiving? [   ]
☐ No, but we plan to begin archiving data in the next year
☐ No, but we plan to begin archiving data within the next two years
☐ No, but we plan to begin archiving data in the future (five to ten years)
☐ No, we do not plan to begin archiving data

50. How are data archived? (Check all that apply)

☐ Computer database - Store raw data. (e.g., sensor feed)
☐ Computer database - Store processed data (e.g., traffic conditions)

What is the size of the database? [   ]

☐ Other (please specify) [   ]
☐ Do not archive data

51. Are you aware of the Standard Guide for Archiving and Retreiving Intelligent Transportation System - Generated Data (ASTM E2259-03)?

☐ Yes, are you using it?

☐ Yes
☐ No

☐ No

52. Please check all the methods your agency uses to make the archived data available.

☐ On-Line (Web)
☐ CD
☐ Paper reports
☐ Other (please specify) [   ]
☐ Do not make archive data available/do not archive data

DATA COLLECTION AND ARCHIVING (Cont.):

Please enter the current information for 2004 and the current estimate for 2005 in the boxes provided. We have entered the information your agency provided in 2002 to assist you.

53. Please check the information your agency collects/archives in real-time

	Collected in 2002	Archived in 2002	Collected in 2004	Archived in 2004
Vehicle time and location	☐	☐	☐	☐
Passenger count	☐	☐	☐	☐
Trip itinerary planning records	☐	☐	☐	☐
Passenger information	☐	☐	☐	☐
Vehicle monitoring status	☐	☐	☐	☐
Road conditions (e.g. wet, icy, etc.)	☐	☐	☐	☐
Emergency vehicle signal preemption events	☐	☐	☐	☐
Transit vehicle signal priority events	☐	☐	☐	☐
Weather conditions (e.g., snow, fog, rain, etc.)	☐	☐	☐	☐
Incidents	☐	☐	☐	☐

54. Please check the information your agency collects/archives electronically

Route designations (snow emergency, etc.)	☐	☐	☐	☐
Current road work zones for transit	☐	☐	☐	☐
Scheduled road work zones for transit	☐	☐	☐	☐
Intermodal (air, rail, water) connections	☐	☐	☐	☐
Emergency/evacuation routes and procedures	☐	☐	☐	☐
Highway operations coordination information	☐	☐	☐	☐
Transit operations coordination information	☐	☐	☐	☐
Other:			☐	☐
Do not collect/archive information	☐	☐	☐	☐

55. What are the data used for?

	2002 Response	2004 Response
Do not know	☐	☐
Operation planning/analysis	☐	☐
Construction impact determination	☐	☐
Capital planning/analysis	☐	☐
Incident detection algorithm development	☐	☐
Roadway impact analysis	☐	☐
Accident prediction models	☐	☐
Dissemination to the public	☐	☐
Traffic Management	☐	☐
Measurement of performance	☐	☐
Safety analysis	☐	☐
Other:		☐

NATIONAL ITS STANDARDS

56. Please check the ITS standards that you are using (deployed or in current RFP) or considering (assessing for use) in your operational transit management systems. The U.S. DOT ITS Standards Program recognizes that there may be other ITS standards surveys being conducted by other entities. If this is the case, please pardon any overlap; however, your input to these surveys will help the U.S. DOT ITS Standards Program better serve your needs and requirements. If no standards are used, skip to the question 59.

List of standards to consider when deploying transit management projects:

Traffic Management

Using   Considering

☐   ☐ NTCIP 1202 - Object Definitions for Actuated Traffic Signal Controller Units
☐   ☐ NTCIP 1210 - Objects for Signal Systems Master
☐   ☐ NTCIP 1211 - Objects for Signal Control Priority

Freeway Management

Using   Considering

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

Advanced Transportation Controller

Using   Considering

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

Profiles and Base Standards

Using   Considering

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

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

Center-to-Center Communications

Using	Considering	
☐	☐	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)
☐	☐	NTCIP 1602 - Generic Reference Model for C2C Communications

Incident Management

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

Advanced Traveler Information System

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

Transit

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

Commercial Vehicle Operations

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

Dedicated Short Range Communications

Using   Considering

☐   ☐ IEEE 1609.1 - Standard for Dedicated Short Range Communications (DSRC) Resource Manager
☐   ☐ IEEE 1609-2 - Standard for Dedicated Short Range Communications (DSRC) Application Layer
☐   ☐ IEEE 1609.3 - Standard for IP Interface for Dedicated Short Range Communications (DSRC)
☐   ☐ IEEE 1609.4 - Standard for Dedicated Short Range Communications (DSRC) Medium Access Control (MAC) Layer
☐   ☐ 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
☐   ☐ SAE J2xxx - Standard for Data Dictionary and Message Sets for Dedicated Short Range Communications (DSRC)
☐   ☐ E2158-01 Standard Specification for Dedicated Short Range Communication (DSRC) Physical Layer using Microwave in the 902 to 928 MHz Band
☐   ☐ ASTM E17.54.00.1 - Standard Guidelines for Archiving ITS-Generated Data
☐   ☐ PS 105-99: Standard Provisional Specification for Dedicated Short Range Communication (DSRC) Data Link Layer

Archived Data User Service (ADUS)

Using   Considering

☐   ☐ ASTM E2259-03 -Standard Guidelines for Archiving
☐   ☐ ASTM E-17.54.02.1 Standard Specifications for Metadata Content for ITS-Generated Data
☐   ☐ ASTM E-17.54.02.2 Standard Specifications for Archiving ITS-Related Traffic Monitoring Data

Location Referencing

Using   Considering

☐   ☐ SAE J2266 - Location Referencing Message Specification

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

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

58. 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

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Somewhat

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Not exactly

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59. 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).

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

60. 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.

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

61. Who can we contact in your agency regarding ITS standards?

Name:

Affiliation:

Phone:

E-mail:

62. May FHWA follow up with this agency contact for possible peer networking?

☐ Yes
☐ No