



Kimley-Horn
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APPENDIX A – NDOR ITS ARCHITECTURE INVENTORY AND MAPPING OF SUBSYSTEMS TO MARKET PACKAGES

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Table A1 – Stakeholder, Nebraska Statewide ITS Architecture Element and Associated National ITS Architecture Subsystem/Terminator sorted by Stakeholder

Stakeholder Name	Nebraska Statewide ITS Architecture Element	Element Description	Element Status	Associated National ITS Architecture Subsystem/Terminator
Adjacent States	Adjacent State TMCs	Includes the states of Iowa, South Dakota, Kansas, Colorado, Wyoming, and Missouri	Planned	Other TM
ARNG	ARNG Operations Center	Nebraska Army National Guard Operations Center located at the STARC Building in Lincoln	Existing	Other EM
City of Lincoln	Lincoln TMC	City of Lincoln traffic management center	Existing	Other TM
	Lincoln Transit (Startran) Management Center	City of Lincoln Transit Management Center	Existing	Transit Management Other TRM
City of Omaha	Omaha TMC	City of Omaha traffic management center	Existing	Other TM
	Omaha Transit (MAT) Management Center	Omaha/Metro Area Transit Management Center	Existing	Transit Management Other TRM
Information Service Providers	Meridian	These subsystems collect, process, store, and disseminates transportation information to system operators and the traveling public. The ISP can provide a general data warehousing function, collecting information from transportation system operators and redistributing this information to other system operators in the region and other ISPs. This also represents Surface Transportation Weather Service providers, which provide value-added sector specific meteorological services.	Existing	Surface Transportation Weather Service
				Information Service Provider
Local Cities, Counties, and Agencies	Local Public Safety and Emergency Services	Represents local (city, county, town) police and fire agencies	Planned	Emergency Management Other EM
	Local TMCs	Represents numerous local traffic management centers	Existing	Other TM
	Other Transit Management Centers	Represents other fixed-route or demand responsive transit management centers throughout Nebraska.	Existing	Transit Management
	Other Transit Management Centers	Represents other fixed-route or demand responsive transit management centers throughout Nebraska.	Existing	Other TRM

**Table A1 – Stakeholder, Nebraska Statewide ITS Architecture Element and Associated National ITS Architecture Subsystem/Terminator
sorted by Stakeholder**

Stakeholder Name	Nebraska Statewide ITS Architecture Element	Element Description	Element Status	Associated National ITS Architecture Subsystem/Terminator
Local Media Outlets (continued)	Media	The media element represents the information systems that provide traffic reports, travel conditions, and other transportation-related news services to the traveling public through radio, TV, and other media	Planned	Media
NDEQ	NDEQ	Represents the Nebraska Department of Environmental Quality hazardous materials incident management capabilities	Existing	Other EM
NDOR	DOC1 MCO Field Equipment	District Operations Center 1 Maintenance and Construction Operations Field Equipment include sensors, displays, and cameras for operational purposes of maintenance and construction	Planned	Roadway Subsystem
				Other Roadway
	DOC1 MCO Vehicles	District Operations Center 1 Maintenance and Construction Operations vehicles include ITS devices that provide the sensory, processing, storage, and communications functions necessary to support highway maintenance and construction	Existing	Maintenance and Construction Vehicle
	DOC1 MCOC	District Operations Center 1 Maintenance and Construction Operations Center	Planned	Maintenance and Construction Management
				Other MCM
	DOC1 TMC	District Operations Center 1 Traffic Management Center	Planned	Traffic Management
				Other TM
	DOC1 TMC ITS Field Equipment	District Operations Center 1 Traffic Management Center ITS Field Equipment includes any and all equipment distributed on and along the roadway that monitors and controls traffic	Planned	Other Roadway
	DOC2 MCO Field Equipment	District Operations Center 2 Maintenance and Construction Operations Field Devices include sensors, displays, and cameras for operational purposes of maintenance and construction	Planned	Roadway Subsystem
				Other Roadway

**Table A1 – Stakeholder, Nebraska Statewide ITS Architecture Element and Associated National ITS Architecture Subsystem/Terminator
sorted by Stakeholder (continued)**

Stakeholder Name	Nebraska Statewide ITS Architecture Element	Element Description	Element Status	Associated National ITS Architecture Subsystem/Terminator
NDOR	DOC2 MCO Vehicles	District Operations Center 2 Maintenance and Construction Operations vehicles include ITS devices that provide the sensory, processing, storage, and communications functions necessary to support highway maintenance and construction	Existing	Maintenance and Construction Vehicle
				Other MCV
	DOC2 MCOC	District Operations Center 2 Maintenance and Construction Operations Center	Planned	Maintenance and Construction Management
	DOC2 TMC	District Operations Center 2 Traffic Management Center	Planned	Traffic Management
				Other TM
	DOC2 TMC ITS Field Equipment	District Operations Center 2 Traffic Management Center ITS Field Equipment includes any and all equipment distributed on and along the roadway that monitors and controls traffic	Planned	Roadway Subsystem
				Other Roadway
	DOC3-8 MCO Field Equipment	District Operations Centers 3 through 8 Maintenance and Construction Operations field devices include sensors, displays, and cameras for operational purposes of maintenance and construction	Planned	Roadway Subsystem
	DOC3-8 MCO Vehicles	District Operations Centers 3 through 8 Maintenance and Construction Operations vehicles include ITS devices that provide the sensory, processing, storage, and communications functions necessary to support highway maintenance and construction	Existing	Maintenance and Construction Vehicle
				Other MCV
	DOC3-8 MCOC	District Operations Centers 3 through 8 Maintenance and Construction Operations Centers	Planned	Maintenance and Construction Management
	DOC3-8 TMC	District Operations Centers 3 through 8 Traffic Management Centers	Planned	Traffic Management
				Other TM

**Table A1 – Stakeholder, Nebraska Statewide ITS Architecture Element and Associated National ITS Architecture Subsystem/Terminator
sorted by Stakeholder (continued)**

Stakeholder Name	Nebraska Statewide ITS Architecture Element	Element Description	Element Status	Associated National ITS Architecture Subsystem/Terminator
NDOR	DOC3-8 TMC ITS Field Equipment	District Operations Center 3 through 8 Traffic Management Centers ITS Field Equipment includes any and all equipment distributed on and along the roadway that monitors and controls traffic	Planned	Other Roadway
				Roadway Subsystem
	NDOR Over-Dimensional Permitting System	Nebraska Department of Roads Over-Dimensional Permitting System	Existing	Commercial Vehicle Permitting Subsystem
	Statewide ADMS	Statewide Archived Data Management System	Planned	Archived Data Management Subsystem
				Other Archives
	Statewide ATIS System (PioneerNet))	Advanced Travel Information System	Planned	Information Service Provider
				Other MCM
				Other TM
				Other ISP
				Traffic Management
				Maintenance and Construction Management
	Statewide RWIS Server	Server to which RWIS data is sent, located in Lincoln, prior to being sent to Information Server Providers.	Existing	Maintenance and Construction Management
				Other MCM
NEMA	NEMA EOC	Nebraska Emergency Management Agency Emergency Operations Center located at the STARC Building	Existing	Other EM
NOAA	Weather Service	National Weather Service	Existing	Weather Service

**Table A1 – Stakeholder, Nebraska Statewide ITS Architecture Element and Associated National ITS Architecture Subsystem/Terminator
sorted by Stakeholder (continued)**

Stakeholder Name	Nebraska Statewide ITS Architecture Element	Element Description	Element Status	Associated National ITS Architecture Subsystem/Terminator
NSP	NSP Carrier Enforcement	Nebraska State Patrol Carrier Enforcement	Existing	Commercial Vehicle Enforcement Subsystem
	NSP MAMAP Motorist Assist Program	Nebraska State Patrol Metropolitan Area Motorist Assist Program (Omaha Area)	Existing	Emergency Vehicle Subsystem
	NSP NeMAP Motorist Assist Program	Nebraska State Patrol Motorist Assist Program (Lincoln Area)	Existing	Emergency Vehicle Subsystem
	NSP Troop A Communications Center/Traffic Services Division	Nebraska State Patrol Troop A Communications Center and Traffic Services Division	Existing	Emergency Management
				Other EM
	NSP Troop HQ Communications Center	Nebraska State Patrol Troop HQ Communications Center located at the STARC Facility	Existing	Other EM
	NSP Troop HQ Communications Center	Nebraska State Patrol Troop HQ Communications Center located at the STARC Facility	Existing	Emergency Management
	NSP Troop HQ Traffic Services Division	Nebraska State Patrol Troop HQ Traffic Services Division	Existing	Emergency Management
				Other EM
Private Rail Companies	Railroad Operations Centers	Represents Railroad Operations Centers (Union Pacific and Burlington Northern Santa Fe)	Existing	Emergency Management
				Other EM
				Rail Operations
				Wayside Equipment



Table A2 – NDOR Statewide Market Packages and Associated Elements

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
ATMS01	Network Surveillance	Information Service Provider	Statewide ATIS System (PioneerNet)
			DOC2 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
		Other Roadway	DOC1 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
		Roadway Subsystem	DOC1 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
		Traffic Management	Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
			DOC2 TMC
			DOC1 TMC
ATMS03	Surface Street Control	Other Roadway	DOC2 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
		Roadway Subsystem	DOC2 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
		Traffic Management	DOC1 TMC
			DOC2 TMC
			DOC3-8 TMC
ATMS04	Freeway Control	Other Roadway	DOC2 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
		Roadway Subsystem	DOC3-8 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
		Traffic Management	DOC2 TMC
			DOC3-8 TMC
			DOC1 TMC



Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
ATMS06	Traffic Information Dissemination	Emergency Management	NSP Troop HQ Communications Center
			NSP Troop A Communications Center/Traffic Services Division
			Local Public Safety and Emergency Services
			NSP Troops B-E Communications Center/Traffic Services Division
		Information Service Provider	Statewide ATIS System (PioneerNet)
		Maintenance and Construction Management	Statewide ATIS System (PioneerNet)
			DOC3-8 MCOC
			DOC2 MCOC
			DOC1 MCOC
		Media	Media
		Other Roadway	DOC1 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
		Roadway Subsystem	DOC3-8 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
		Traffic Management	Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
			DOC2 TMC
			DOC1 TMC
		Transit Management	Other Transit Management Centers
			Omaha Transit (MAT) Management Center
		Transit Management	Lincoln Transit (Startran) Management Center
ATMS07	Regional Traffic Control	Other TM	Adjacent State TMCs
			DOC1 TMC
			Omaha TMC
			Local TMCs
			Lincoln TMC



Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
ATMS07 (cont.)	Regional Traffic Control	Other TM (continued)	DOC3-8 TMC
			DOC2 TMC
		Roadway Subsystem	DOC1 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
		Traffic Management	DOC2 TMC
			DOC1 TMC
			DOC3-8 TMC
ATMS08	Incident Management System	Emergency Management	NSP Troop HQ Communications Center
			NSP Troop A Communications Center/Traffic Services Division
			NSP Troops B-E Communications Center/Traffic Services Division
		Information Service Provider	Statewide ATIS System (PioneerNet)
		Maintenance and Construction Management	DOC2 MCOC
			DOC3-8 MCOC
			Statewide ATIS System (PioneerNet)
			DOC1 MCOC
		Other EM	NSP Troop HQ Communications Center
			NSP Troop A Communications Center/Traffic Services Division
			NEMA EOC
			NSP Troops B-E Communications Center/Traffic Services Division
		Other MCM	DOC2 MCOC
			Statewide ATIS System (PioneerNet)
			DOC1 MCOC
			DOC3-8 MCOC
		Other Roadway	DOC3-8 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment

Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
ATMS08 (cont.)	Incident Management System	Other TM	DOC1 TMC
			DOC2 TMC
			Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
			Adjacent State TMCs
		Roadway Subsystem	DOC3-8 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
		Traffic Management	DOC1 TMC
			DOC2 TMC
			Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
	Standard Railroad Grade Crossing	Roadway Subsystem	DOC2 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
		Traffic Management	DOC1 TMC
			DOC2 TMC
			DOC3-8 TMC
		Wayside Equipment	Railroad Wayside Equipment
ATMS15	Railroad Operations Coordination	Information Service Provider	Statewide ATIS System (PioneerNet)
		Rail Operations	Railroad Operations Centers
		Roadway Subsystem	DOC3-8 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC2 TMC ITS Field Equipment
		Traffic Management	Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
			DOC2 TMC
			DOC1 TMC



Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
MC01	Maintenance and Construction Vehicle Tracking	Maintenance and Construction Management	DOC3-8 MCOC
			DOC2 MCOC
			DOC1 MCOC
		Maintenance and Construction Vehicle	DOC1 MCO Vehicles
			DOC3-8 MCO Vehicles
			DOC2 MCO Vehicles
MC03	Road Weather Data Collection	Maintenance and Construction Management	Statewide RWIS Server
		Roadway Subsystem	DOC1 MCO Field Equipment
			DOC2 MCO Field Equipment
			DOC3-8 MCO Field Equipment
MC04	Weather Information Processing and Distribution	Emergency Management	Local Public Safety and Emergency Services
			NSP Troop A Communications Center/Traffic Services Division
			NSP Troop HQ Communications Center
			NSP Troops B-E Communications Center/Traffic Services Division
		Information Service Provider	Statewide ATIS System (PioneerNet)
			Meridian
		Maintenance and Construction Management	DOC3-8 MCOC
			DOC2 MCOC
			DOC1 MCOC
			Statewide ATIS System (PioneerNet)
			Statewide RWIS Server
		Media	Media
		Other MCM	DOC1 MCOC
			DOC2 MCOC
			DOC3-8 MCOC
			Statewide ATIS System (PioneerNet)
			Statewide RWIS Server
		Rail Operations	Railroad Operations Centers
		Surface Transportation Weather Service	Meridian

Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
MC04 (cont.)	Weather Information Processing and Distribution	Traffic Management	DOC2 TMC
			Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
			DOC1 TMC
		Transit Management	Omaha Transit (MAT) Management Center
			Other Transit Management Centers
			Lincoln Transit (Startran) Management Center
		Weather Service	Weather Service
MC05	Roadway Automated Treatment	Maintenance and Construction Management	DOC3-8 MCOC
			DOC2 MCOC
			DOC1 MCOC
		Other Roadway	DOC2 MCO Field Equipment
			DOC1 MCO Field Equipment
			DOC3-8 MCO Field Equipment
		Roadway Subsystem	DOC2 MCO Field Equipment
			DOC3-8 MCO Field Equipment
			DOC1 MCO Field Equipment
MCO6	Winter Maintenance	Emergency Management	NSP Troop HQ Communications Center
			NSP Troops B-E Communications Center/Traffic Services Division
			NSP Troop A Communications Center/Traffic Services Division
		Information Service Provider	Statewide ATIS System (PioneerNet)
		Maintenance and Construction Management	DOC2 MCOC
			DOC1 MCOC
			DOC3-8 MCOC
			Statewide ATIS System (PioneerNet)
		Maintenance and Construction Vehicle	DOC3-8 MCO Vehicles
			DOC2 MCO Vehicles
			DOC1 MCO Vehicles



Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
MCO6 (cont.)	Winter Maintenance	Other MCM	Statewide ATIS System (PioneerNet)
			DOC3-8 MCOC
			DOC2 MCOC
			DOC1 MCOC
		Other MCV	DOC3-8 MCO Vehicles
			DOC2 MCO Vehicles
			DOC1 MCO Vehicles
		Traffic Management	DOC2 TMC
			DOC3-8 TMC
			DOC1 TMC
			Statewide ATIS System (PioneerNet)
		Weather Service	Weather Service
MC07	Roadway Maintenance and Construction	Emergency Management	NSP Troop HQ Communications Center
		Emergency Management	NSP Troop A Communications Center/Traffic Services Division
			NSP Troops B-E Communications Center/Traffic Services Division
		Maintenance and Construction Management	DOC2 MCOC
			DOC1 MCOC
			DOC3-8 MCOC
		Maintenance and Construction Vehicle	DOC3-8 MCO Vehicles
			DOC2 MCO Vehicles
			DOC1 MCO Vehicles
		Roadway Subsystem	DOC1 MCO Field Equipment
			DOC2 MCO Field Equipment
			DOC3-8 MCO Field Equipment
		Traffic Management	DOC1 TMC
			DOC3-8 TMC
			DOC2 TMC
MC08	Work Zone Management	Emergency Management	NSP Troop HQ Communications Center
		Information Service Provider	Statewide ATIS System (PioneerNet)



Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
MC08 (cont.)	Work Zone Management	Maintenance and Construction Management	Statewide ATIS System (PioneerNet)
			DOC1 MCOC
			DOC3-8 MCOC
			DOC2 MCOC
		Maintenance and Construction Vehicle	DOC1 MCO Vehicles
		Other MCM	DOC2 MCOC
			DOC1 MCOC
			Statewide ATIS System (PioneerNet)
			DOC3-8 MCOC
		Roadway Subsystem	DOC2 MCO Field Equipment
			DOC1 MCO Field Equipment
			DOC3-8 MCO Field Equipment
		Traffic Management	DOC2 TMC
			Statewide ATIS System (PioneerNet)
			DOC3-8 TMC
			DOC1 TMC
MC10	Maintenance and Construction Activity Coordination	Emergency Management	NSP Troop HQ Communications Center
			NSP Troop A Communications Center/Traffic Services Division
		Emergency Management	NSP Troops B-E Communications Center/Traffic Services Division
		Information Service Provider	Statewide ATIS System (PioneerNet)
		Maintenance and Construction Management	DOC1 MCOC
			DOC2 MCOC
			DOC3-8 MCOC
			Statewide ATIS System (PioneerNet)
		Other MCM	DOC1 MCOC
			DOC2 MCOC
			Statewide ATIS System (PioneerNet)
			DOC3-8 MCOC

Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
MC10 (cont.)	Maintenance and Construction Activity Coordination	Traffic Management	Statewide ATIS System (PioneerNet)
			DOC2 TMC
			DOC3-8 TMC
			DOC1 TMC
		Transit Management	Omaha Transit (MAT) Management Center
			Lincoln Transit (Startran) Management Center
			Other Transit Management Centers
ATIS1	Broadcast Traveler Information	Emergency Management	NSP Troops B-E Communications Center/Traffic Services Division
			NSP Troop A Communications Center/Traffic Services Division
			NSP Troop HQ Communications Center
		Information Service Provider	Statewide ATIS System (PioneerNet)
		Maintenance and Construction Management	Statewide ATIS System (PioneerNet)
			DOC3-8 MCOC
			DOC2 MCOC
			DOC1 MCOC
		Media	Media
		Other ISP	Statewide ATIS System (PioneerNet)
		Traffic Management	DOC3-8 TMC
			DOC2 TMC
			Statewide ATIS System (PioneerNet)
			DOC1 TMC
		Weather Service	Weather Service
EM1	Emergency Response	Emergency Management	NSP Troop HQ Communications Center
			NSP Troops B-E Communications Center/Traffic Services Division
			NSP Troop A Communications Center/Traffic Services Division
		Other EM	NSP Troop A Communications Center/Traffic Services Division
			NSP Troop HQ Communications Center



Table A2 – NDOR Statewide Market Packages and Associated Elements (continued)

Market Package	Market Package Name	National ITS Architecture Subsystem/Terminator	Associated NDOR ITS Architecture Subsystem
EM1(cont.)	Emergency Response	Other EM (continued)	NSP Troops B-E Communications Center/Traffic Services Division
			DOC3-8 TMC
			DOC2 TMC
			DOC1 TMC
EM4	Roadway Service Patrols	Emergency Management	NSP Troop HQ Communications Center
			NSP Troop A Communications Center/Traffic Services Division
		Emergency Vehicle Subsystem	NSP NeMAP Motorist Assist Program
			NSP MAMAP Motorist Assist Program
		Maintenance and Construction Management	DOC2 MCOC
			DOC1 MCOC
		Traffic Management	DOC2 TMC
			DOC1 TMC
AD2	ITS Data Warehouse	Archived Data Management Subsystem	Statewide ADMS
		Maintenance and Construction Management	DOC1 MCOC
			DOC2 MCOC
			DOC3-8 MCOC
		Roadway Subsystem	DOC2 TMC ITS Field Equipment
			DOC1 TMC ITS Field Equipment
			DOC3-8 TMC ITS Field Equipment
			DOC3-8 MCO Field Equipment
			DOC2 MCO Field Equipment
			DOC1 MCO Field Equipment
		Traffic Management	DOC1 TMC
			DOC3-8 TMC
			DOC2 TMC