

Binghamton Regional ITS Architecture  
Information Flows

SourceElement	DestinationElement	FlowName
NYSDOT REGIONAL TMC	NYSDOT REGIONAL TMC Personnel	ISP operating parameters
		traffic operator data
	NYSDOT REGIONAL TMC Roadside Equipment	freeway control data
		roadway information system data
		signal control data
		traffic sensor control
		video surveillance control
	BROOME COUNTY Emergency Management Center	archive coordination
		emergency traffic control response
		incident information
		incident information request
		resource deployment status
	BROOME COUNTY Transit Center	road network conditions
		request transit information
		selected routes
		transit information request
		traffic control priority status
	BROOME COUNTY Transit Center Kiosks	broadcast information
		traveler information
		trip plan
	NYSDOT REGIONAL MCO Center	archive coordination
		field equipment status
		incident information
		maint and constr resource request
		road network conditions
		work plan feedback
	NYSDOT REGIONAL MCO Field Devices	environmental sensors control
		freeway control data
roadway information system data		
signal control data		
video surveillance control		
Media	road network conditions	
	traveler information for media	
Individual Traveler Personal Computing Devices	broadcast information	
	traveler information	
	trip plan	
NYSDOT REGIONAL TMC Personnel	NYSDOT REGIONAL TMC	ISP operating parameter updates
NYSDOT REGIONAL TMC Roadside Equipment	NYSDOT REGIONAL TMC	freeway control status
		request for right-of-way
		roadway information system status
		signal control status
		traffic flow
		traffic images
	NYSDOT REGIONAL MCO Center	environmental conditions data
		field device status
		infrastructure monitoring sensor data
		roadway information system status
	NYSDOT REGIONAL MCO Field Devices	roadway equipment coordination
	NYSDOT REGIONAL MCO Vehicles	infrastructure monitoring sensor data
		roadway information system status

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BROOME COUNTY Emergency Management Center	BROOME COUNTY EMC Personnel	emergency operations status	
	BROOME COUNTY Transit Center	transit emergency coordination data	
	Emergency Response Vehicles	emergency dispatch requests	
		incident command information	
		suggested route	
	NYS DOT REGIONAL TMC	archive coordination	
		emergency traffic control request	
		incident information	
		incident response status	
		remote surveillance control	
	NYS DOT REGIONAL MCO Center	resource request	
		archive coordination	
		incident information	
incident response status			
maint and constr resource request			
Media	road network probe information		
	work plan feedback		
BROOME COUNTY EMC Personnel	Media	incident information for media	
BROOME COUNTY Transit Center	BROOME COUNTY Emergency Management Center	emergency operations request	
	BROOME COUNTY Emergency Management Center	BROOME COUNTY Transit Center Personnel	transit emergency data
		Transit Vehicles	transit operations planning data
	NYS DOT REGIONAL TMC	Transit Vehicles	transit operator display
		request for vehicle measures	
		request for road network conditions	
		traffic control priority request	
		transit and fare schedules	
	NYS DOT REGIONAL MCO Center	transit incident information	
		transit request confirmation	
	Media	transit system data	
		road network probe information	
	Transit Vehicles	work plan feedback	
transit information for media			
bad tag list			
fare management information			
Individual Traveler Personal Computing Devices	transit schedule information		
	transit traveler information		
BROOME COUNTY Transit Center Kiosks	NYS DOT REGIONAL TMC	personal transit information	
		traveler request	
		trip confirmation	
BROOME COUNTY Transit Center Personnel	BROOME COUNTY Transit Center	trip request	
		transit fleet manager inputs	
Emergency Response Vehicles	BROOME COUNTY Emergency Management Center	transit operator management data	
		emergency dispatch response	
		emergency vehicle tracking data	
		incident command request	
	NYS DOT REGIONAL TMC Roadside Equipment	incident status	
NYS DOT REGIONAL MCO Field Devices	NYS DOT REGIONAL MCO Field Devices	local signal preemption request	
		local signal preemption request	

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NYS DOT REGIONAL MCO Center	NYS DOT REGIONAL TMC	archive coordination
		current asset restrictions
		equipment maintenance status
		incident information
		maint and constr resource response
		maint and constr work plans
		road weather information
		roadway maintenance status
	work zone information	
	NYS DOT REGIONAL TMC Roadside Equipment	environmental sensors control
		infrastructure monitoring sensor control
		roadway information system data
	BROOME COUNTY Emergency Management Center	video surveillance control
		archive coordination
current asset restrictions		
incident information		
maint and constr resource response		
maint and constr work plans		
road weather information		
roadway maintenance status		
BROOME COUNTY Transit Center	work zone information	
	current asset restrictions	
	maint and constr work plans	
	road weather information	
NYS DOT REGIONAL MCO Field Devices	roadway maintenance status	
	work zone information	
	environmental sensors control	
NYS DOT REGIONAL MCO Vehicles	infrastructure monitoring sensor control	
	roadway information system data	
	video surveillance control	
Media	environmental sensors control	
	maint and constr dispatch information	
	maint and constr vehicle system control	
	maint and constr work plans	
Weather Services	road weather information	
	work zone information	
NYS DOT REGIONAL MCO Field Devices	NYS DOT REGIONAL TMC	environmental conditions data
		environmental conditions data
		environmental probe data
		freeway control status
		request for right-of-way
		roadway information system status
		signal control status
	traffic flow	
	traffic images	
	NYS DOT REGIONAL TMC Roadside Equipment	roadway equipment coordination
	NYS DOT REGIONAL MCO Center	environmental conditions data
		field device status
		infrastructure monitoring sensor data
roadway information system status		
NYS DOT REGIONAL MCO Vehicles	traffic images	
	environmental conditions data	
	infrastructure monitoring sensor data	
Weather Services	roadway information system status	
	environmental conditions data	

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NYS DOT REGIONAL MCO Vehicles	NYS DOT REGIONAL TMC Roadside Equipment	infrastructure monitoring sensor control
		roadway information system data
	NYS DOT REGIONAL MCO Center	environmental probe data
		infrastructure conditions data
		maint and constr dispatch status
		maint and constr vehicle conditions
		maint and constr vehicle location data
	maint and constr vehicle operational data	
	work zone status	
NYS DOT REGIONAL MCO Field Devices	environmental conditions data	
	environmental sensors control	
	infrastructure monitoring sensor control	
	roadway information system data	
MEDIA	NYS DOT REGIONAL TMC	external reports
		media information request
	BROOME COUNTY Emergency Management Center	media information request
BROOME COUNTY Transit Center	media information request	
Transit Vehicles	BROOME COUNTY Transit Center	transit vehicle conditions
		transit vehicle schedule performance
	NYS DOT REGIONAL TMC Roadside Equipment	local signal priority request
		fare and payment status
	BROOME COUNTY Transit Center	request for bad tag list
		transit traveler request
transit vehicle location data		
transit vehicle passenger and use data		
NYS DOT REGIONAL MCO Field Devices	local signal priority request	
Individual Traveler Personal Computing Devices	NYS DOT REGIONAL TMC	traveler profile
		traveler request
		trip confirmation
		trip request
BROOME COUNTY Transit Center	transit information user request	
Weather Services	NYS DOT REGIONAL TMC	weather information
	BROOME COUNTY Emergency Management Center	weather information
	BROOME COUNTY Transit Center	weather information
	NYS DOT REGIONAL MCO Center	environmental conditions data
		weather information
NYS DOT REGIONAL MCO Field Devices	environmental sensors control	



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