# FDOT District 5

## Regional ITS Architecture Update Workbook

**Version 1**

April 14, 2014

## Space Coast Transportation Planning Organization

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# Section 1

# Introduction

# Introduction:

The Florida Department of Transportation District 5 (FDOT D5) is in the process of updating the Regional ITS Architecture (RITSA). This update will include the involvement of the Metro and Transportation Planning Organizations (MPO/TPO). The FDOT D5 recognizes the need to update and maintain the existing architecture which will provide context for ITS projects so that each project supports the envisioned transportation system goals and conforms to the National ITS Architecture. By using the architecture as a planning tool, each ITS project will be incorporate transportation system management and operations strategies to assist in fulfilling the larger objectives set forth in the long range transportation plan.

This Regional ITS Architecture Update Workbook and Reference Guide has been developed to assist FDOT and the MPO/TPO's through this process.

## How to use this Workbook:

This workbook is intended to provide a systematic step-by-step approach to updating the existing RITSA and provide updates regarding future projects that will alter the RITSA. Workbooks are specific to each MPO or TPO area of responsibilities. For example, in the Space Coast TPO Workbook, there will be worksheets for Brevard County, City of Melbourne, City of Palm Bay, etc. Some worksheets may contain information regarding another MPO, however, each MPO should only focus on making changes to the elements within their area of responsibility.

This Workbook contains several worksheets divided into 7 sections:

***Context Diagram*** – a logical diagram of data flows between ITS elements. These data flows may currently exist or may be planned for the future. Diagrams will be provided for all inventory/elements within the MPO/TPO area of responsibility.

***Existing Data Flow Connections*** – depicts the data flows that are shown in the existing RITSA. These data flows need to be updated to reflect true and real conditions as they exist today.

***ITS Stakeholders*** – a list of agencies (i.e. state, municipal, multimodal, private, etc.) that contribute to or have a vested interest in the regional transportation network

***ITS Elements*** – inventory (e.g. Traffic Management Centers, Emissions Control Center, Emergency Operations Center, etc.) belonging to an ITS stakeholder

***ITS Element Requirements*** – contractual obligations that must be fulfilled or expectations that must be met by the ITS Elements.

***Stakeholders Roles and Responsibilities*** – contractual obligations that must be fulfilled or expectations that must be met by the ITS Stakeholders and the role each plays in regards to one another.

***Project Planning*** – a worksheet design assist agencies with listing projects that are currently in the Transportation Improvement Plan along with their goals, objectives and benefits to the transportation network.

# RITSA Update Instructions:

**RITSA Update Process:** *(Stakeholders are to complete all necessary worksheets as described below)*

1. Update the existing RITSA
2. Update the existing data flows
3. Update the existing Stakeholders and Elements List
4. Update the existing Elements Requirements (Equipment Packages)
5. Update the existing Stakeholders Role and Responsibilities (Operational Concepts)
6. Add new projects to the RITSA

***Updating the Existing Diagram:***

1. Only update the existing RITSA diagram for the elements (i.e. Brevard Co. TMC and Brevard Co. Field Equipment) that your organization (i.e. Brevard County) is responsible for.
2. Please use and mark changes on the "Context Diagram Worksheets" provided in the RITSA Update Workbook.
3. Denote each data flow as either existing or planned on each diagram provided. (See example provided in Exhibit A.1)
4. Determine if the stakeholders and elements shown in the diagram are correct. Make changes as necessary. Add stakeholders and/or elements if missing by drawing the stakeholder and element box in RED ink. (See example provided in Exhibit A.1)

***Update the Existing Data Flows:***

1. On the "Existing Data Flow Connections" worksheet within the RITSA Update Workbook, please review the existing data flows and determine if the flows and elements are true and accurate.
2. If correct, leave as is. If incorrect, make all corrections directly on the worksheet in RED ink by crossing out the incorrect information and providing the correct data below or adjacent to it. Also, provide explanation in the comment box when necessary. (See example provided in Exhibit A.2)
3. Descriptions of the Flow Names are listed in the "Architecture Flows Description" section of the RITSA Update Reference Guide.

***Update the Existing Stakeholders and Elements (Inventory) List:***

1. Please review the "Stakeholders" section of the RITSA Update Reference Guide to ensure all stakeholders associated with your organization are included.
2. If you find that there are any stakeholders that currently have existing data flows with your organization, that are not listed in the stakeholders list, please add the stakeholders to the bottom of the "ITS Stakeholders" worksheet in the RITSA Update Workbook and provide a brief description of the stakeholder.
3. Please review the "Inventory (Elements) by Stakeholders" section of the RITSA Update Reference Guide to ensure all ITS Elements associated with your organization are included.
4. If you find any elements that your organization that are not listed in the "Inventory by Stakeholders" section of the RITSA Update Reference Guide, please add the elements to the bottom of the "ITS Elements" worksheet in the RITSA Update Workbook and provide a brief description of the element.

***Update the Existing Element Requirements (Equipment Packages):***

1. Please review and update the "ITS Element Requirements" worksheet in the RITSA Update Workbook.
2. The functional area description column represents the requirements for each element within your organization. For each requirement update the status as Planned, Existing, Planned/Existing or Not Planned.
3. A high level description of each functional area can be found in the "Equipment Packages Description" section of the RITSA Update Reference Guide.

***Update the Existing Stakeholder Responsibilities (Operational Concepts):***

1. Please review and update the "Stakeholders Role and Responsibilities" worksheet in the RITSA Update Workbook.
2. The "RR Description" column represents the responsibilities of your organization. For each RR Description update the status as Planned, Existing or Not Planned.

***Planning for future Projects:***

1. Please complete the "Project Planning" worksheet by following the instructions written for each question contained in the worksheet and using the RITSA Update Reference Guide as a cross-reference.

Planned – Wil be established in the future.
Existing – Currently established
Planned/Existing – Some items are currently established while other portions will be established in the future
Not Planned – not established and has no future plans to establish

## Submittal Process:

This workbook is to be completed by the Stakeholders and submitted to the FDOT ITS Traffic Engineer who will use the completed workbook to updated the RITSA database and submit it to FDOT Central Office and FHWA.

You may either print this workbook or make changes directly on the printed sheets or edit the digital copy of the worksheets. If you selected to print the worksheets in the workbook, please scan all necessary worksheets and email to the FDOT ITS Traffic Engineer with the subject line titled "RITSA Update Workbook (Stakeholder Name)". If completed digitally, please save a copy and follow the same email procedures.

## Additional Information:

All information within this workbook regarding the existing Regional ITS Architecture has been provided by the FDOT Statewide ITS Architecture website:

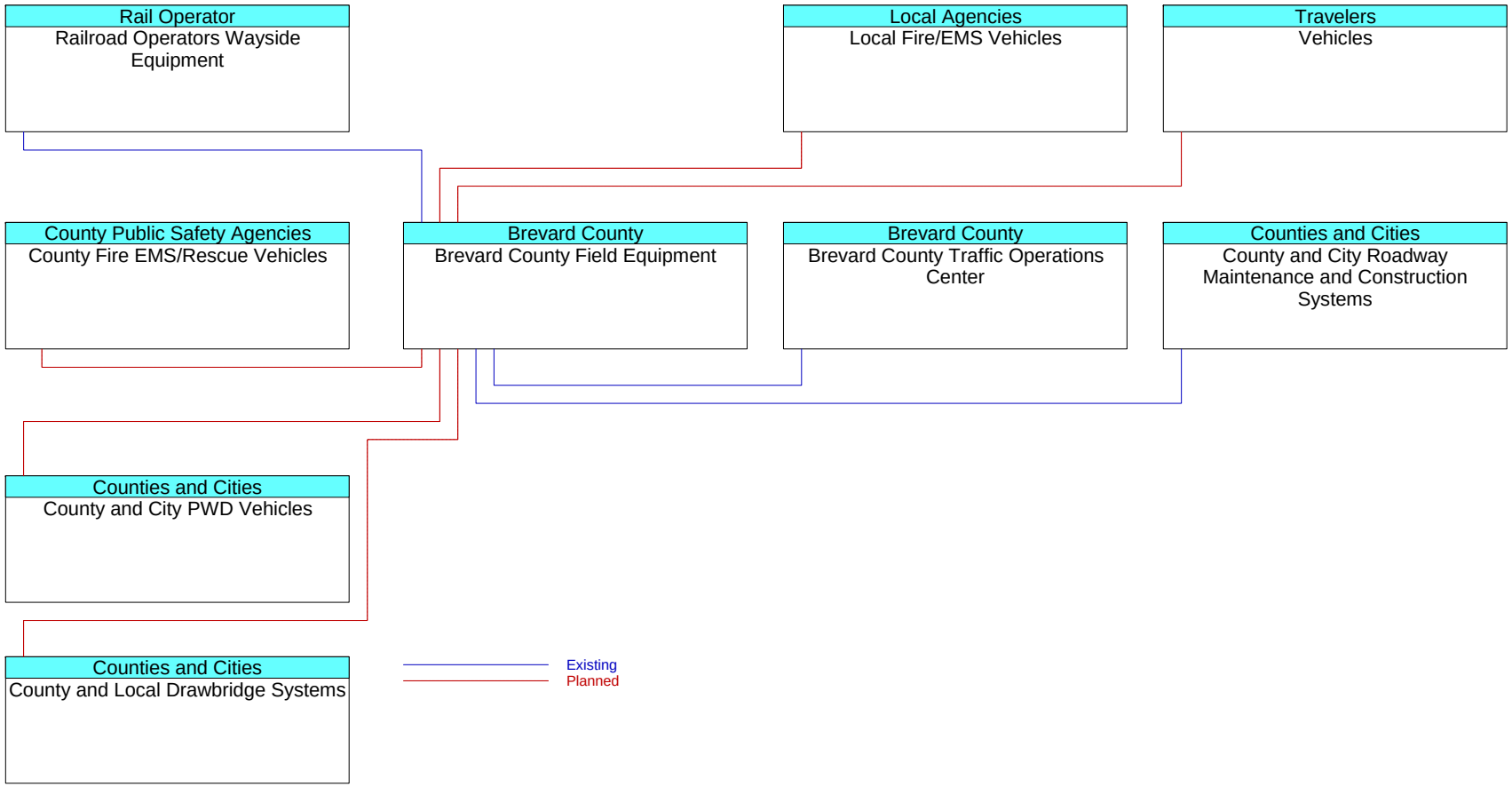
http://www.consystec.com/florida/ and http://www.iteris.com/itsarch/html/menu/hypertext.htm.

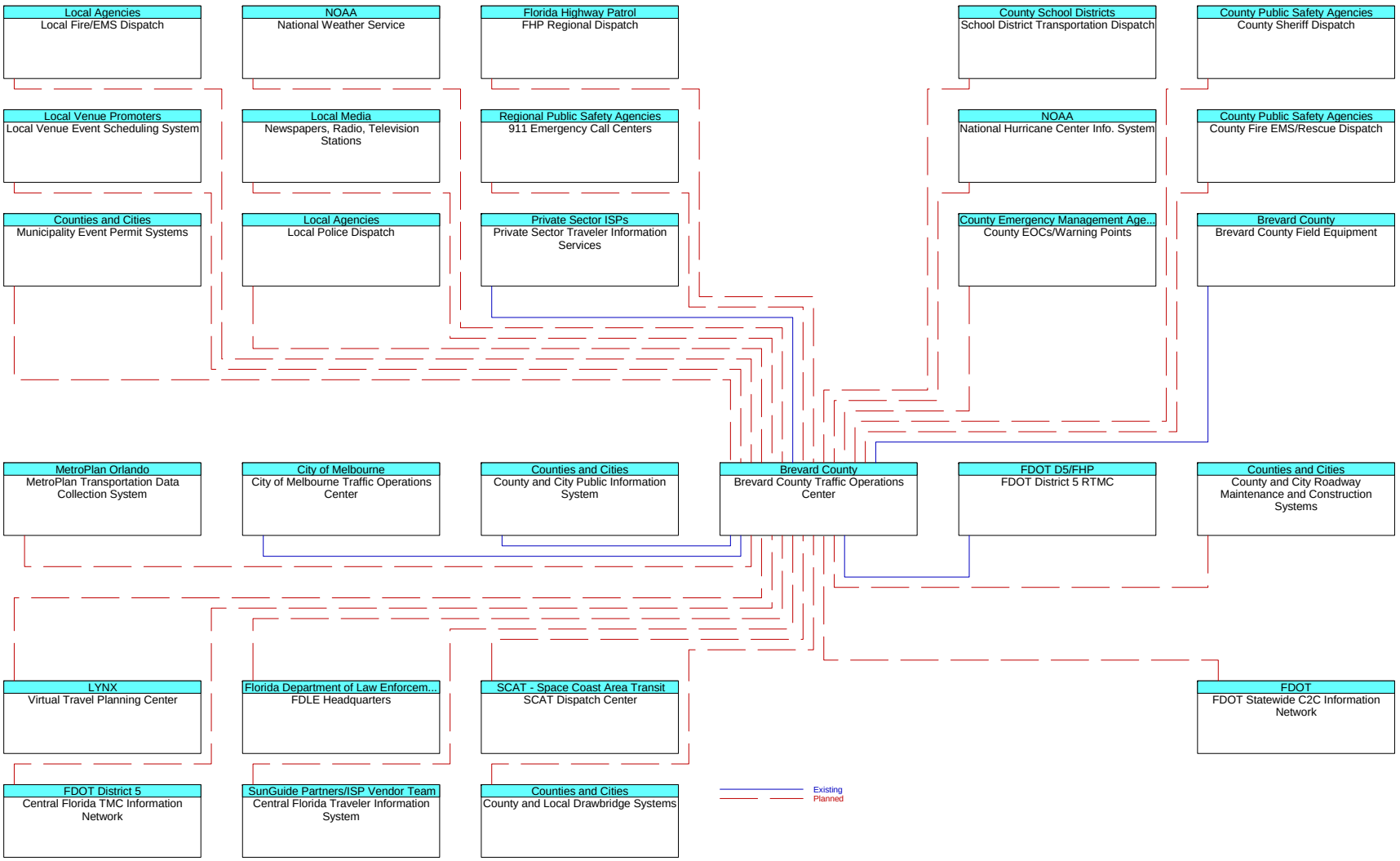
Additionally, free web-based training modules on ITS Architecture is available at the site below:

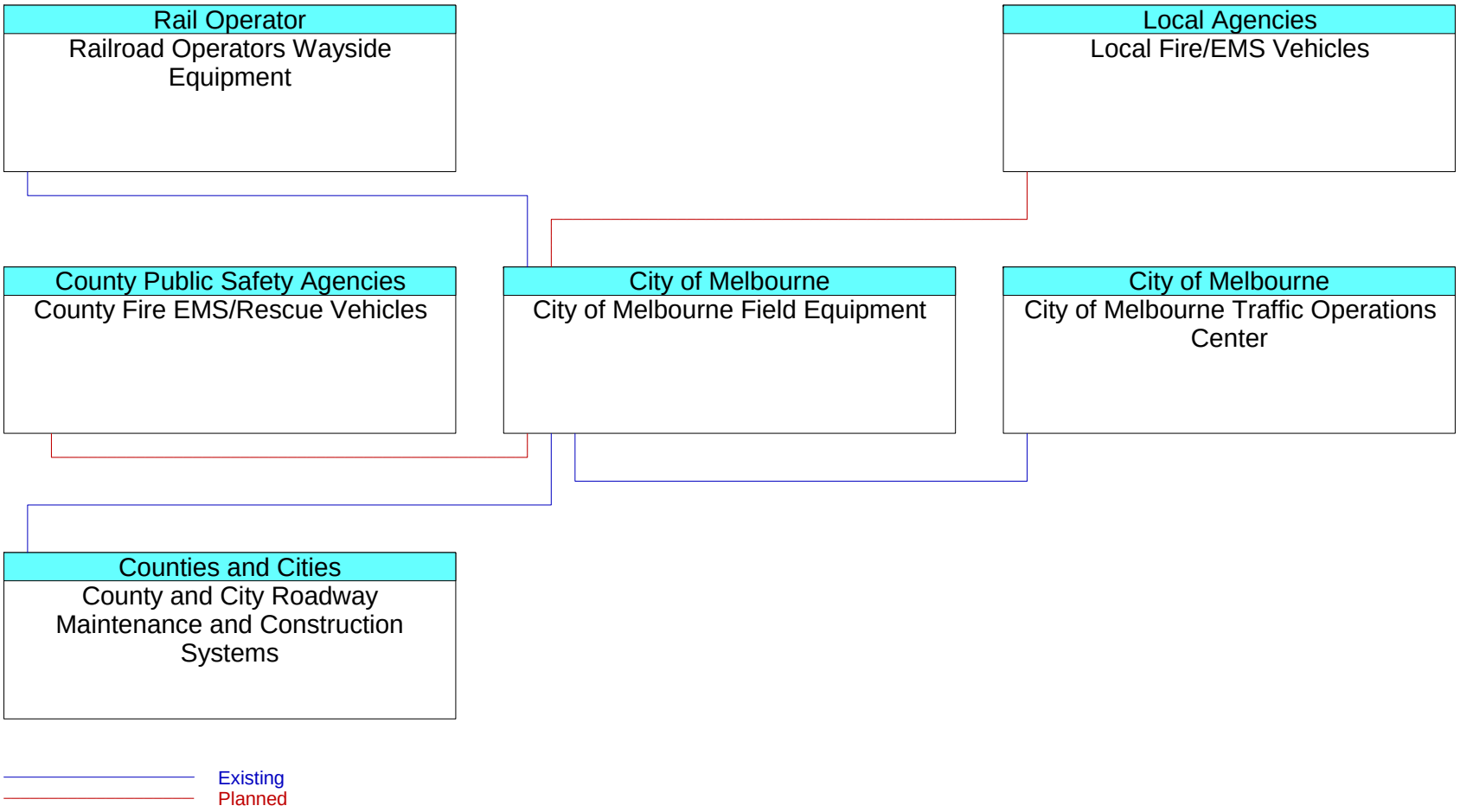
http://www.iteris.com/itsarch/html/training/useandmainttraining.htm

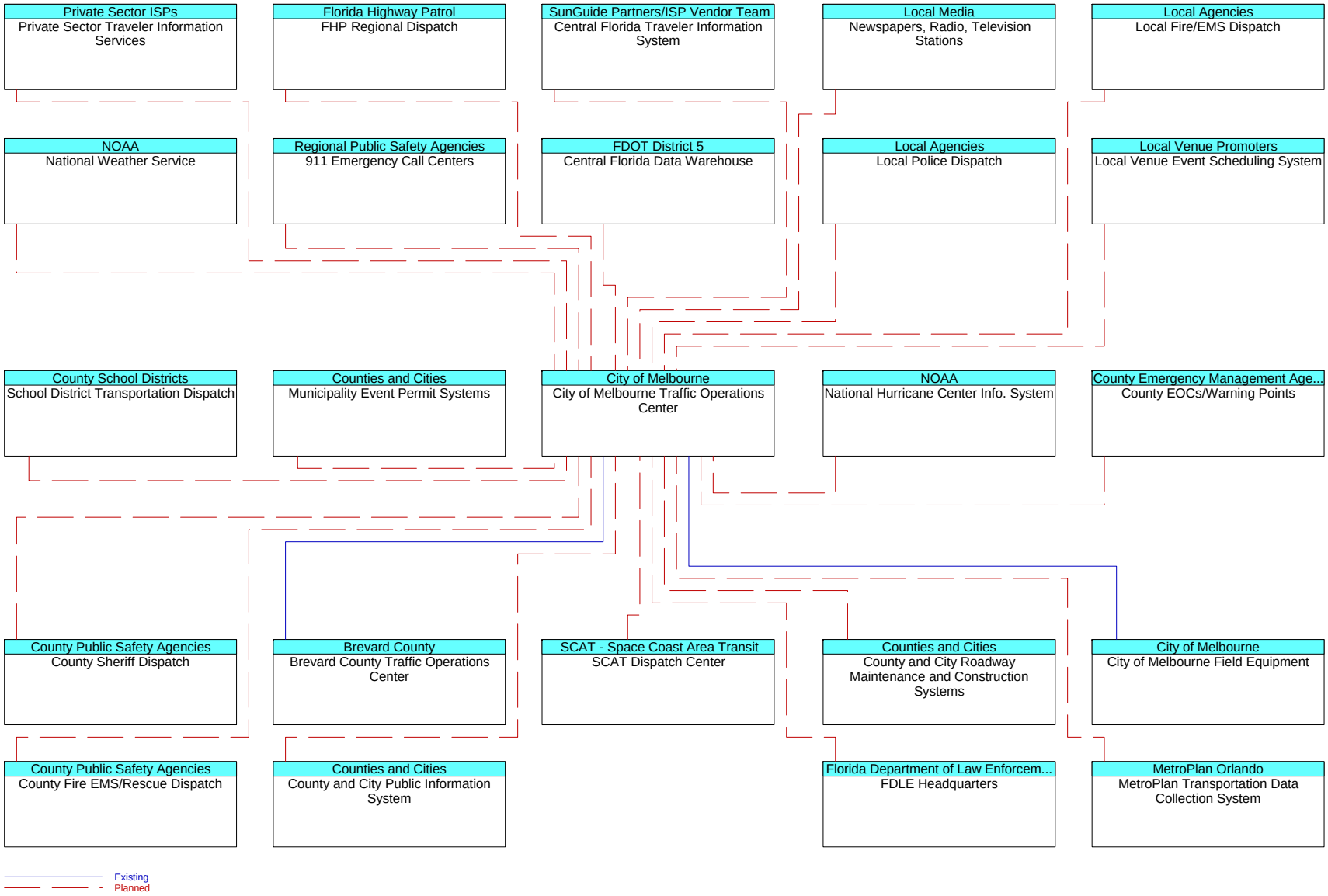
Section 2

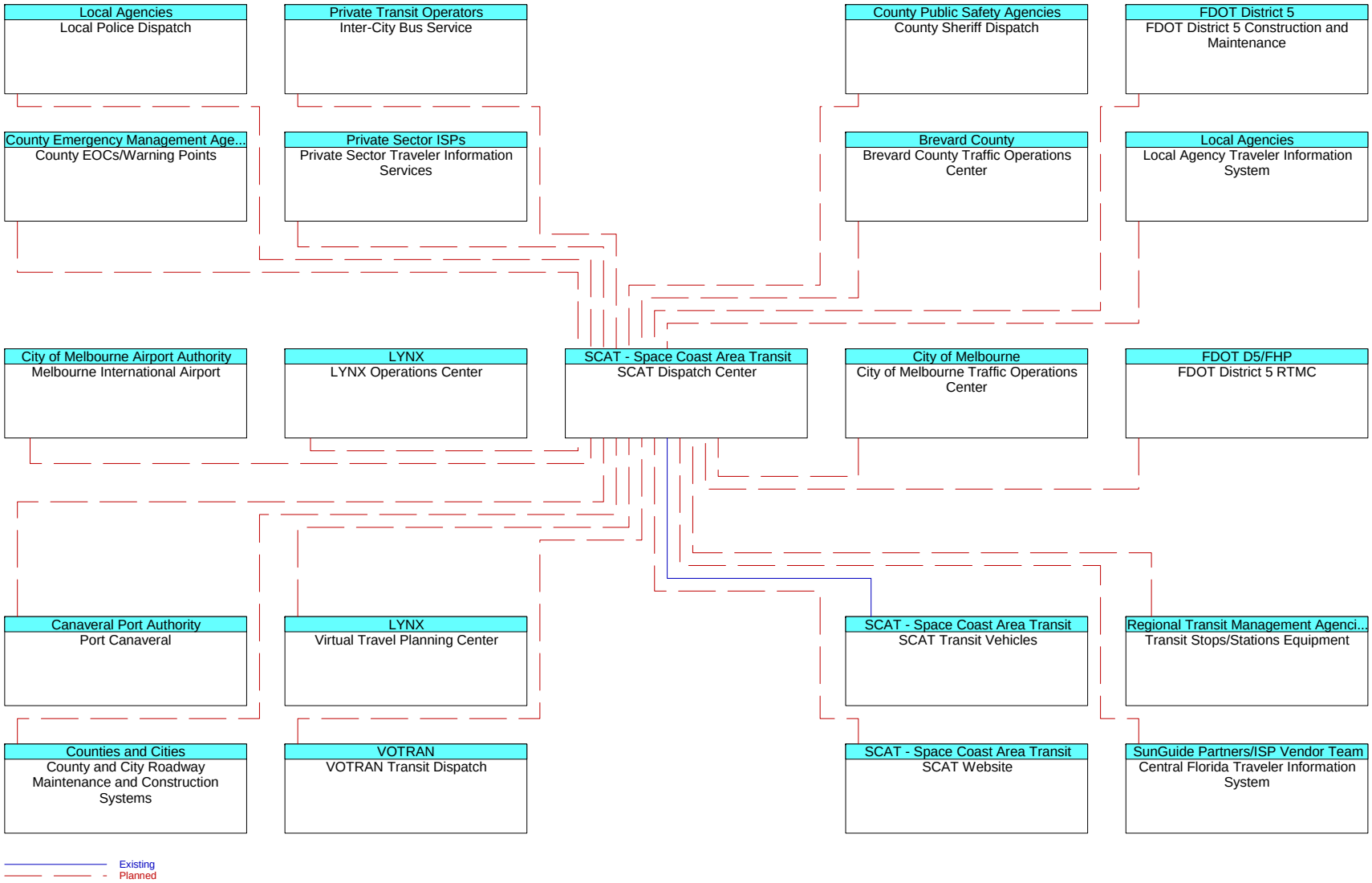
# Context Diagrams Worksheet

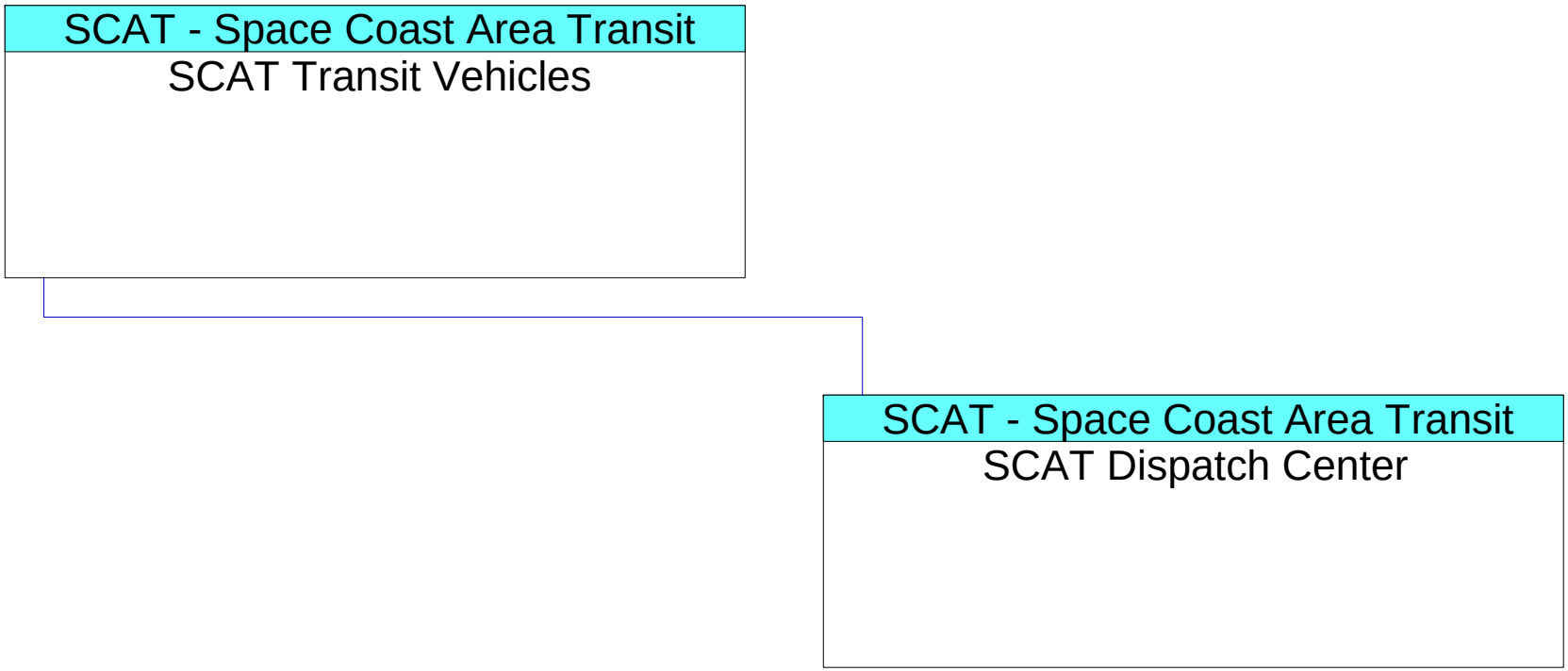

Rail Operator
Railroad Operators Wayside Equipment
Local Agencies
Local Fire/EMS Vehicles
Travelers
Vehicles
County Public Safety Agencies
County Fire EMS/Rescue Vehicles
Brevard County
Brevard County Field Equipment
Brevard County
Brevard County Traffic Operations Center
Counties and Cities
County and City Roadway Maintenance and Construction Systems
Counties and Cities
County and City PWD Vehicles
Counties and Cities
County and Local Drawbridge Systems
Existing
Planned

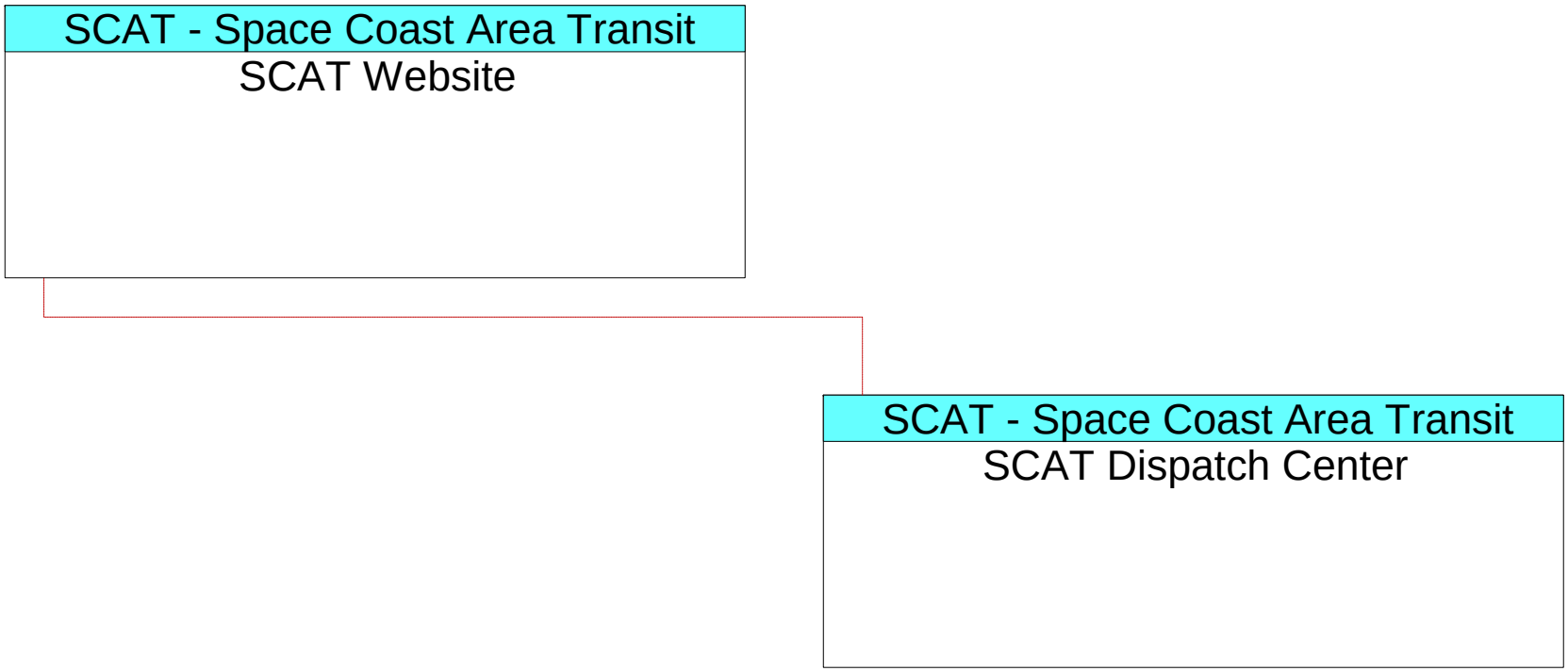

Local Agencies
Local Fire/EMS Dispatch
NOAA
National Weather Service
Florida Highway Patrol
FHP Regional Dispatch
County School Districts
School District Transportation Dispatch
County Public Safety Agencies
County Sheriff Dispatch
Local Venue Promoters
Local Venue Event Scheduling System
Local Media
Newspapers, Radio, Television Stations
Regional Public Safety Agencies
911 Emergency Call Centers
NOAA
National Hurricane Center Info. System
County Public Safety Agencies
County Fire EMS/Rescue Dispatch
Counties and Cities
Municipality Event Permit Systems
Local Agencies
Local Police Dispatch
Private Sector ISPs
Private Sector Traveler Information Services
County Emergency Management Age...
County EOCs/Warning Points
Brevard County
Brevard County Field Equipment
MetroPlan Orlando
MetroPlan Transportation Data Collection System
City of Melbourne
City of Melbourne Traffic Operations Center
Counties and Cities
County and City Public Information System
Brevard County
Brevard County Traffic Operations Center
FDOT D5/FHP
FDOT District 5 RTMC
Counties and Cities
County and City Roadway Maintenance and Construction Systems
LYNX
Virtual Travel Planning Center
Florida Department of Law Enforcem...
FDLE Headquarters
SCAT - Space Coast Area Transit
SCAT Dispatch Center
FDOT
FDOT Statewide C2C Information Network
FDOT District 5
Central Florida TMC Information Network
SunGuide Partners/ISP Vendor Team
Central Florida Traveler Information System
Counties and Cities
County and Local Drawbridge Systems
Existing
Planned


Rail Operator
Railroad Operators Wayside Equipment
Local Agencies
Local Fire/EMS Vehicles
County Public Safety Agencies
County Fire EMS/Rescue Vehicles
City of Melbourne
City of Melbourne Field Equipment
City of Melbourne
City of Melbourne Traffic Operations Center
Counties and Cities
County and City Roadway Maintenance and Construction Systems
Existing
Planned


Private Sector ISPs
Private Sector Traveler Information Services
Florida Highway Patrol
FHP Regional Dispatch
SunGuide Partners/ISP Vendor Team
Central Florida Traveler Information System
Local Media
Newspapers, Radio, Television Stations
Local Agencies
Local Fire/EMS Dispatch
NOAA
National Weather Service
Regional Public Safety Agencies
911 Emergency Call Centers
FDOT District 5
Central Florida Data Warehouse
Local Agencies
Local Police Dispatch
Local Venue Promoters
Local Venue Event Scheduling System
County School Districts
School District Transportation Dispatch
Counties and Cities
Municipality Event Permit Systems
City of Melbourne
City of Melbourne Traffic Operations Center
NOAA
National Hurricane Center Info. System
County Emergency Management Age...
County EOCs/Warning Points
County Public Safety Agencies
County Sheriff Dispatch
Brevard County
Brevard County Traffic Operations Center
SCAT - Space Coast Area Transit
SCAT Dispatch Center
Counties and Cities
County and City Roadway Maintenance and Construction Systems
City of Melbourne
City of Melbourne Field Equipment
County Public Safety Agencies
County Fire EMS/Rescue Dispatch
Counties and Cities
County and City Public Information System
Florida Department of Law Enforcem...
FDLE Headquarters
MetroPlan Orlando
MetroPlan Transportation Data Collection System
Existing
Planned


Local Agencies
Local Police Dispatch
Private Transit Operators
Inter-City Bus Service
County Public Safety Agencies
County Sheriff Dispatch
FDOT District 5
FDOT District 5 Construction and Maintenance
County Emergency Management Age...
County EOCs/Warning Points
Private Sector ISPs
Private Sector Traveler Information Services
Brevard County
Brevard County Traffic Operations Center
Local Agencies
Local Agency Traveler Information System
City of Melbourne Airport Authority
Melbourne International Airport
LYNX
LYNX Operations Center
SCAT - Space Coast Area Transit
SCAT Dispatch Center
City of Melbourne
City of Melbourne Traffic Operations Center
FDOT D5/FHP
FDOT District 5 RTMC
Canaveral Port Authority
Port Canaveral
LYNX
Virtual Travel Planning Center
SCAT - Space Coast Area Transit
SCAT Transit Vehicles
Regional Transit Management Agenci...
Transit Stops/Stations Equipment
Counties and Cities
County and City Roadway Maintenance and Construction Systems
VOTRAN
VOTRAN Transit Dispatch
SCAT - Space Coast Area Transit
SCAT Website
SunGuide Partners/ISP Vendor Team
Central Florida Traveler Information System
Existing
Planned


SCAT - Space Coast Area Transit
SCAT Transit Vehicles
SCAT - Space Coast Area Transit
SCAT Dispatch Center
Existing


SCAT - Space Coast Area Transit
SCAT Website
SCAT - Space Coast Area Transit
SCAT Dispatch Center
Planned

# Section 3

# Existing Data Flow Connections Worksheet

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| 911 Emergency Call Centers | incident information | Brevard County Traffic Operations Center | Planned | |
| 911 Emergency Call Centers | incident response status | Brevard County Traffic Operations Center | Planned | |
| 911 Emergency Call Centers | resource request | Brevard County Traffic Operations Center | Planned | |
| Brevard County Field Equipment | environmental conditions data | Brevard County Traffic Operations Center | Planned | |
| Brevard County Field Equipment | highway control status | County and Local Drawbridge Systems | Planned | |
| Brevard County Field Equipment | hri operational status | Railroad Operators Wayside Equipment | Planned | |
| Brevard County Field Equipment | hri status | Brevard County Traffic Operations Center | Planned | |
| Brevard County Field Equipment | request for right-of-way | Brevard County Traffic Operations Center | Existing/Planned | |
| Brevard County Field Equipment | request tag data | Vehicles | Planned | |
| Brevard County Field Equipment | roadway information system status | Brevard County Traffic Operations Center | Planned | |
| Brevard County Field Equipment | roadway information system status | County and City Roadway Maintenance and Construction Systems | Existing | |
| Brevard County Field Equipment | signal control status | Brevard County Traffic Operations Center | Existing/Planned | |
| Brevard County Field Equipment | traffic flow | Brevard County Traffic Operations Center | Existing | |
| Brevard County Field Equipment | traffic images | Brevard County Traffic Operations Center | Existing | |
| Brevard County Field Equipment | vehicle probe data | Brevard County Traffic Operations Center | Planned | |
| Brevard County Field Equipment | work zone warning notification | County and City PWD Vehicles | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Brevard County Field Equipment | work zone warning status | County and City Roadway Maintenance and Construction Systems | Planned | |
| Brevard County Traffic Operations Center | alert status | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | alert status | FDLE Headquarters | Planned | |
| Brevard County Traffic Operations Center | crash data_ud | MetroPlan Transportation Data Collection System | Planned | |
| Brevard County Traffic Operations Center | emergency plan coordination | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | emergency traffic control information | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | environmental conditions data | National Hurricane Center Info. System | Planned | |
| Brevard County Traffic Operations Center | environmental conditions data | National Weather Service | Planned | |
| Brevard County Traffic Operations Center | environmental sensors control | Brevard County Field Equipment | Planned | |
| Brevard County Traffic Operations Center | field equipment status | County and City Roadway Maintenance and Construction Systems | Planned | |
| Brevard County Traffic Operations Center | hri control data | Brevard County Field Equipment | Planned | |
| Brevard County Traffic Operations Center | hri request | Brevard County Field Equipment | Planned | |
| Brevard County Traffic Operations Center | incident information | 911 Emergency Call Centers | Planned | |
| Brevard County Traffic Operations Center | incident information | County and City Roadway Maintenance and Construction Systems | Planned | |
| Brevard County Traffic Operations Center | incident information | County EOCs/Warning Points | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | incident information | County Fire EMS/Rescue Dispatch | Planned | |
| Brevard County Traffic Operations Center | incident information | County Sheriff Dispatch | Planned | |
| Brevard County Traffic Operations Center | incident information | FHP Regional Dispatch | Planned | |
| Brevard County Traffic Operations Center | incident information | Local Fire/EMS Dispatch | Planned | |
| Brevard County Traffic Operations Center | incident information | Local Police Dispatch | Planned | |
| Brevard County Traffic Operations Center | maint and constr resource request | County and City Roadway Maintenance and Construction Systems | Planned | |
| Brevard County Traffic Operations Center | maint and constr resource response | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | 911 Emergency Call Centers | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | County Fire EMS/Rescue Dispatch | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | County Sheriff Dispatch | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | FHP Regional Dispatch | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | Local Fire/EMS Dispatch | Planned | |
| Brevard County Traffic Operations Center | resource deployment status | Local Police Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | 911 Emergency Call Centers | Planned | |
| Brevard County Traffic Operations Center | road network conditions | Central Florida Traveler Information System | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | road network conditions | County and City Public Information System | Existing | |
| Brevard County Traffic Operations Center | road network conditions | County and City Roadway Maintenance and Construction Systems | Planned | |
| Brevard County Traffic Operations Center | road network conditions | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | road network conditions | County Fire EMS/Rescue Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | County Sheriff Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | FHP Regional Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | Local Fire/EMS Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | Local Police Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | Newspapers, Radio, Television Stations | Planned | |
| Brevard County Traffic Operations Center | road network conditions | Private Sector Traveler Information Services | Existing | |
| Brevard County Traffic Operations Center | road network conditions | SCAT Dispatch Center | Planned | |
| Brevard County Traffic Operations Center | road network conditions | School District Transportation Dispatch | Planned | |
| Brevard County Traffic Operations Center | road network conditions | Virtual Travel Planning Center | Planned | |
| Brevard County Traffic Operations Center | road network status assessment | County EOCs/Warning Points | Planned | |
| Brevard County Traffic Operations Center | roadway information system data | Brevard County Field Equipment | Planned | |
| Brevard County Traffic Operations Center | signal control data | Brevard County Field Equipment | Existing/Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | traffic control coordination | FDOT District 5 RTMC | Existing | |
| Brevard County Traffic Operations Center | traffic images | 911 Emergency Call Centers | Planned | |
| Brevard County Traffic Operations Center | traffic images | County Fire EMS/Rescue Dispatch | Planned | |
| Brevard County Traffic Operations Center | traffic images | County Sheriff Dispatch | Planned | |
| Brevard County Traffic Operations Center | traffic images | FHP Regional Dispatch | Planned | |
| Brevard County Traffic Operations Center | traffic images | Local Fire/EMS Dispatch | Planned | |
| Brevard County Traffic Operations Center | traffic images | Local Police Dispatch | Planned | |
| Brevard County Traffic Operations Center | traffic information coordination | Central Florida TMC Information Network | Planned | |
| Brevard County Traffic Operations Center | traffic information coordination | City of Melbourne Traffic Operations Center | Existing | |
| Brevard County Traffic Operations Center | traffic information coordination | FDOT District 5 RTMC | Existing | |
| Brevard County Traffic Operations Center | traffic information coordination | FDOT Statewide C2C Information Network | Planned | |
| Brevard County Traffic Operations Center | traffic sensor control | Brevard County Field Equipment | Existing | |
| Brevard County Traffic Operations Center | transit and fare schedules | Central Florida Traveler Information System | Planned | |
| Brevard County Traffic Operations Center | transit and fare schedules | Private Sector Traveler Information Services | Planned | |
| Brevard County Traffic Operations Center | transit incident information | Central Florida Traveler Information System | Planned | |
| Brevard County Traffic Operations Center | transit incident information | Private Sector Traveler Information Services | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | video surveillance control | Brevard County Field Equipment | Existing | |
| Brevard County Traffic Operations Center | work plan feedback | County and City Roadway Maintenance and Construction Systems | Planned | |
| Central Florida TMC Information Network | traffic information coordination | Brevard County Traffic Operations Center | Planned | |
| City of Melbourne Traffic Operations Center | traffic information coordination | Brevard County Traffic Operations Center | Existing | |
| County and City Roadway Maintenance and Construction Systems | current asset restrictions | Brevard County Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | equipment maintenance status | Brevard County Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | incident information | Brevard County Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | maint and constr resource response | Brevard County Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | maint and constr work plans | Brevard County Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | roadway information system data | Brevard County Field Equipment | Existing | |
| County and City Roadway Maintenance and Construction Systems | work zone information | Brevard County Traffic Operations Center | Planned | |
| County and Local Drawbridge Systems | multimodal crossing status | Brevard County Field Equipment | Planned | |
| County and Local Drawbridge Systems | multimodal crossing status | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | alert notification | Brevard County Traffic Operations Center | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| County EOCs/Warning Points | emergency plan coordination | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | emergency traffic control request | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | evacuation information | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | incident information | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | incident response status | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | maint and constr resource request | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | resource request | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | threat information | Brevard County Traffic Operations Center | Planned | |
| County EOCs/Warning Points | transportation system status | Brevard County Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Dispatch | incident information | Brevard County Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Dispatch | incident response status | Brevard County Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Dispatch | resource request | Brevard County Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Vehicles | local signal preemption request | Brevard County Field Equipment | Planned | |
| County Sheriff Dispatch | incident information | Brevard County Traffic Operations Center | Planned | |
| County Sheriff Dispatch | incident response status | Brevard County Traffic Operations Center | Planned | |
| County Sheriff Dispatch | resource request | Brevard County Traffic Operations Center | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| FDLE Headquarters | alert notification | Brevard County Traffic Operations Center | Planned | |
| FDOT District 5 RTMC | traffic control coordination | Brevard County Traffic Operations Center | Existing | |
| FDOT District 5 RTMC | traffic information coordination | Brevard County Traffic Operations Center | Existing | |
| FDOT Statewide C2C Information Network | traffic information coordination | Brevard County Traffic Operations Center | Planned | |
| FHP Regional Dispatch | incident information | Brevard County Traffic Operations Center | Planned | |
| FHP Regional Dispatch | incident response status | Brevard County Traffic Operations Center | Planned | |
| FHP Regional Dispatch | resource request | Brevard County Traffic Operations Center | Planned | |
| Local Fire/EMS Dispatch | incident information | Brevard County Traffic Operations Center | Planned | |
| Local Fire/EMS Dispatch | incident response status | Brevard County Traffic Operations Center | Planned | |
| Local Fire/EMS Dispatch | resource request | Brevard County Traffic Operations Center | Planned | |
| Local Fire/EMS Vehicles | local signal preemption request | Brevard County Field Equipment | Planned | |
| Local Police Dispatch | incident information | Brevard County Traffic Operations Center | Planned | |
| Local Police Dispatch | incident response status | Brevard County Traffic Operations Center | Planned | |
| Local Police Dispatch | resource request | Brevard County Traffic Operations Center | Planned | |
| Local Venue Event Scheduling System | event plans | Brevard County Traffic Operations Center | Planned | |
| MetroPlan Transportation Data Collection System | archive requests | Brevard County Traffic Operations Center | Planned | |

Existing Data Flows Connections Worksheet – Brevard County

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| MetroPlan Transportation Data Collection System | archive status | Brevard County Traffic Operations Center | Planned | |
| Municipality Event Permit Systems | event plans | Brevard County Traffic Operations Center | Planned | |
| National Hurricane Center Info. System | weather information | Brevard County Traffic Operations Center | Planned | |
| National Weather Service | weather information | Brevard County Traffic Operations Center | Planned | |
| Railroad Operators Wayside Equipment | track status | Brevard County Field Equipment | Existing | |
| Vehicles | vehicle probe data | Brevard County Field Equipment | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| 911 Emergency Call Centers | incident information | City of Melbourne Traffic Operations Center | Planned | |
| 911 Emergency Call Centers | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| 911 Emergency Call Centers | resource request | City of Melbourne Traffic Operations Center | Planned | |
| Brevard County Traffic Operations Center | traffic information coordination | City of Melbourne Traffic Operations Center | Existing | |
| Central Florida Data Warehouse | archive requests | City of Melbourne Traffic Operations Center | Planned | |
| Central Florida Data Warehouse | archive status | City of Melbourne Traffic Operations Center | Planned | |
| City of Melbourne Field Equipment | environmental conditions data | City of Melbourne Traffic Operations Center | Planned | |
| City of Melbourne Field Equipment | hri operational status | Railroad Operators Wayside Equipment | Planned | |
| City of Melbourne Field Equipment | hri status | City of Melbourne Traffic Operations Center | Planned | |
| City of Melbourne Field Equipment | request for right-of-way | City of Melbourne Traffic Operations Center | Existing | |
| City of Melbourne Field Equipment | roadway information system status | City of Melbourne Traffic Operations Center | Planned | |
| City of Melbourne Field Equipment | roadway information system status | County and City Roadway Maintenance and Construction Systems | Existing | |
| City of Melbourne Field Equipment | signal control status | City of Melbourne Traffic Operations Center | Existing | |
| City of Melbourne Field Equipment | traffic flow | City of Melbourne Traffic Operations Center | Existing/Planned | |
| City of Melbourne Field Equipment | traffic images | City of Melbourne Traffic Operations Center | Existing/Planned | |
| City of Melbourne Traffic Operations Center | alert status | County EOCs/Warning Points | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| City of Melbourne Traffic Operations Center | alert status | FDLE Headquarters | Planned | |
| City of Melbourne Traffic Operations Center | crash data_ud | MetroPlan Transportation Data Collection System | Planned | |
| City of Melbourne Traffic Operations Center | emergency plan coordination | County EOCs/Warning Points | Planned | |
| City of Melbourne Traffic Operations Center | emergency traffic control information | County EOCs/Warning Points | Planned | |
| City of Melbourne Traffic Operations Center | environmental conditions data | National Hurricane Center Info. System | Planned | |
| City of Melbourne Traffic Operations Center | environmental conditions data | National Weather Service | Planned | |
| City of Melbourne Traffic Operations Center | environmental sensors control | City of Melbourne Field Equipment | Planned | |
| City of Melbourne Traffic Operations Center | field equipment status | County and City Roadway Maintenance and Construction Systems | Planned | |
| City of Melbourne Traffic Operations Center | hri control data | City of Melbourne Field Equipment | Planned | |
| City of Melbourne Traffic Operations Center | hri request | City of Melbourne Field Equipment | Planned | |
| City of Melbourne Traffic Operations Center | incident information | 911 Emergency Call Centers | Planned | |
| City of Melbourne Traffic Operations Center | incident information | County and City Roadway Maintenance and Construction Systems | Planned | |
| City of Melbourne Traffic Operations Center | incident information | County EOCs/Warning Points | Planned | |
| City of Melbourne Traffic Operations Center | incident information | County Fire EMS/Rescue Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | incident information | County Sheriff Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | incident information | FHP Regional Dispatch | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| City of Melbourne Traffic Operations Center | incident information | Local Fire/EMS Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | incident information | Local Police Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | maint and constr resource request | County and City Roadway Maintenance and Construction Systems | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | 911 Emergency Call Centers | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | County EOCs/Warning Points | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | County Fire EMS/Rescue Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | County Sheriff Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | FHP Regional Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | Local Fire/EMS Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | resource deployment status | Local Police Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | 911 Emergency Call Centers | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | County and City Public Information System | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | County and City Roadway Maintenance and Construction Systems | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | County EOCs/Warning Points | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | County Fire EMS/Rescue Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | County Sheriff Dispatch | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| City of Melbourne Traffic Operations Center | road network conditions | FHP Regional Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | Local Fire/EMS Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | Local Police Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | Newspapers, Radio, Television Stations | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | Private Sector Traveler Information Services | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | SCAT Dispatch Center | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | School District Transportation Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | road network status assessment | County EOCs/Warning Points | Planned | |
| City of Melbourne Traffic Operations Center | roadway information system data | City of Melbourne Field Equipment | Planned | |
| City of Melbourne Traffic Operations Center | signal control data | City of Melbourne Field Equipment | Existing | |
| City of Melbourne Traffic Operations Center | traffic archive data | Central Florida Data Warehouse | Planned | |
| City of Melbourne Traffic Operations Center | traffic images | 911 Emergency Call Centers | Planned | |
| City of Melbourne Traffic Operations Center | traffic images | County Fire EMS/Rescue Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | traffic images | County Sheriff Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | traffic images | FHP Regional Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | traffic images | Local Fire/EMS Dispatch | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| City of Melbourne Traffic Operations Center | traffic images | Local Police Dispatch | Planned | |
| City of Melbourne Traffic Operations Center | traffic information coordination | Brevard County Traffic Operations Center | Existing | |
| City of Melbourne Traffic Operations Center | traffic sensor control | City of Melbourne Field Equipment | Existing/Planned | |
| City of Melbourne Traffic Operations Center | transit and fare schedules | Central Florida Traveler Information System | Planned | |
| City of Melbourne Traffic Operations Center | transit and fare schedules | Private Sector Traveler Information Services | Planned | |
| City of Melbourne Traffic Operations Center | transit incident information | Central Florida Traveler Information System | Planned | |
| City of Melbourne Traffic Operations Center | transit incident information | Private Sector Traveler Information Services | Planned | |
| City of Melbourne Traffic Operations Center | video surveillance control | City of Melbourne Field Equipment | Existing/Planned | |
| City of Melbourne Traffic Operations Center | work plan feedback | County and City Roadway Maintenance and Construction Systems | Planned | |
| County and City Roadway Maintenance and Construction Systems | current asset restrictions | City of Melbourne Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | equipment maintenance status | City of Melbourne Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | incident information | City of Melbourne Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | maint and constr resource response | City of Melbourne Traffic Operations Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | maint and constr work plans | City of Melbourne Traffic Operations Center | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| County and City Roadway Maintenance and Construction Systems | roadway information system data | City of Melbourne Field Equipment | Existing | |
| County and City Roadway Maintenance and Construction Systems | work zone information | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | alert notification | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | emergency plan coordination | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | emergency traffic control request | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | evacuation information | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | incident information | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | resource request | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | threat information | City of Melbourne Traffic Operations Center | Planned | |
| County EOCs/Warning Points | transportation system status | City of Melbourne Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Dispatch | incident information | City of Melbourne Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Dispatch | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Dispatch | resource request | City of Melbourne Traffic Operations Center | Planned | |
| County Fire EMS/Rescue Vehicles | local signal preemption request | City of Melbourne Field Equipment | Planned | |
| County Sheriff Dispatch | incident information | City of Melbourne Traffic Operations Center | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| County Sheriff Dispatch | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| County Sheriff Dispatch | resource request | City of Melbourne Traffic Operations Center | Planned | |
| FDLE Headquarters | alert notification | City of Melbourne Traffic Operations Center | Planned | |
| FHP Regional Dispatch | incident information | City of Melbourne Traffic Operations Center | Planned | |
| FHP Regional Dispatch | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| FHP Regional Dispatch | resource request | City of Melbourne Traffic Operations Center | Planned | |
| Local Fire/EMS Dispatch | incident information | City of Melbourne Traffic Operations Center | Planned | |
| Local Fire/EMS Dispatch | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| Local Fire/EMS Dispatch | resource request | City of Melbourne Traffic Operations Center | Planned | |
| Local Fire/EMS Vehicles | local signal preemption request | City of Melbourne Field Equipment | Planned | |
| Local Police Dispatch | incident information | City of Melbourne Traffic Operations Center | Planned | |
| Local Police Dispatch | incident response status | City of Melbourne Traffic Operations Center | Planned | |
| Local Police Dispatch | resource request | City of Melbourne Traffic Operations Center | Planned | |
| Local Venue Event Scheduling System | event plans | City of Melbourne Traffic Operations Center | Planned | |
| MetroPlan Transportation Data Collection System | archive requests | City of Melbourne Traffic Operations Center | Planned | |
| MetroPlan Transportation Data Collection System | archive status | City of Melbourne Traffic Operations Center | Planned | |

Existing Data Flows Connections Worksheet – City of Melbourne

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Municipality Event Permit Systems | event plans | City of Melbourne Traffic Operations Center | Planned | |
| National Hurricane Center Info. System | weather information | City of Melbourne Traffic Operations Center | Planned | |
| National Weather Service | weather information | City of Melbourne Traffic Operations Center | Planned | |
| Railroad Operators Wayside Equipment | track status | City of Melbourne Field Equipment | Existing | |

Existing Data Flows Connections Worksheet – Space Coast Transit

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | road network conditions | SCAT Dispatch Center | Planned | |
| Central Florida Traveler Information System | transit information request | SCAT Dispatch Center | Planned | |
| City of Melbourne Traffic Operations Center | road network conditions | SCAT Dispatch Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | current asset restrictions | SCAT Dispatch Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | maint and constr work plans | SCAT Dispatch Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | roadway maintenance status | SCAT Dispatch Center | Planned | |
| County and City Roadway Maintenance and Construction Systems | work zone information | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | alert notification | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | emergency plan coordination | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | emergency transit service request | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | evacuation information | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | incident information | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | incident response status | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | threat information | SCAT Dispatch Center | Planned | |
| County EOCs/Warning Points | transportation system status | SCAT Dispatch Center | Planned | |
| County Sheriff Dispatch | incident response status | SCAT Dispatch Center | Planned | |
| FDOT District 5 Construction and Maintenance | current asset restrictions | SCAT Dispatch Center | Planned | |
| FDOT District 5 Construction and Maintenance | roadway maintenance status | SCAT Dispatch Center | Planned | |

Existing Data Flows Connections Worksheet – Space Coast Transit

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| FDOT District 5 Construction and Maintenance | work zone information | SCAT Dispatch Center | Planned | |
| FDOT District 5 RTMC | road network conditions | SCAT Dispatch Center | Planned | |
| Inter-City Bus Service | transit service coordination | SCAT Dispatch Center | Planned | |
| Local Agency Traveler Information System | demand responsive transit request | SCAT Dispatch Center | Planned | |
| Local Agency Traveler Information System | selected routes | SCAT Dispatch Center | Planned | |
| Local Agency Traveler Information System | transit information request | SCAT Dispatch Center | Planned | |
| Local Police Dispatch | incident response status | SCAT Dispatch Center | Planned | |
| LYNX Operations Center | transit service coordination | SCAT Dispatch Center | Planned | |
| Melbourne International Airport | multimodal service data | SCAT Dispatch Center | Planned | |
| Port Canaveral | multimodal service data | SCAT Dispatch Center | Planned | |
| Private Sector Traveler Information Services | transit information request | SCAT Dispatch Center | Planned | |
| SCAT Dispatch Center | alarm acknowledge | SCAT Transit Vehicles | Planned | |
| SCAT Dispatch Center | alert status | County EOCs/Warning Points | Planned | |
| SCAT Dispatch Center | demand responsive transit plan | Local Agency Traveler Information System | Planned | |
| SCAT Dispatch Center | emergency plan coordination | County EOCs/Warning Points | Planned | |
| SCAT Dispatch Center | emergency transit schedule information | County EOCs/Warning Points | Planned | |
| SCAT Dispatch Center | emergency transit service response | County EOCs/Warning Points | Planned | |
| SCAT Dispatch Center | request for vehicle measures | SCAT Transit Vehicles | Planned | |

Existing Data Flows Connections Worksheet – Space Coast Transit

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| SCAT Dispatch Center | transit and fare schedules | Central Florida Traveler Information System | Planned | |
| SCAT Dispatch Center | transit and fare schedules | Local Agency Traveler Information System | Planned | |
| SCAT Dispatch Center | transit and fare schedules | Private Sector Traveler Information Services | Planned | |
| SCAT Dispatch Center | transit and fare schedules | SCAT Website | Planned | |
| SCAT Dispatch Center | transit and fare schedules | Virtual Travel Planning Center | Planned | |
| SCAT Dispatch Center | transit emergency data | County EOCs/Warning Points | Planned | |
| SCAT Dispatch Center | transit emergency data | County Sheriff Dispatch | Planned | |
| SCAT Dispatch Center | transit emergency data | Local Police Dispatch | Planned | |
| SCAT Dispatch Center | transit incident information | Central Florida Traveler Information System | Planned | |
| SCAT Dispatch Center | transit incident information | Private Sector Traveler Information Services | Planned | |
| SCAT Dispatch Center | transit incident information | Virtual Travel Planning Center | Planned | |
| SCAT Dispatch Center | transit multimodal information | Melbourne International Airport | Planned | |
| SCAT Dispatch Center | transit multimodal information | Port Canaveral | Planned | |
| SCAT Dispatch Center | transit schedule information | SCAT Transit Vehicles | Planned | |
| SCAT Dispatch Center | transit service coordination | Inter-City Bus Service | Planned | |
| SCAT Dispatch Center | transit service coordination | LYNX Operations Center | Planned | |
| SCAT Dispatch Center | transit service coordination | VOTRAN Transit Dispatch | Planned | |
| SCAT Dispatch Center | transit system status assessment | County EOCs/Warning Points | Planned | |

Existing Data Flows Connections Worksheet – Space Coast Transit

| Source Element | Flow Name | Destination Element | Project Flow Status | Comment |
|---|---|---|---|---|
| SCAT Dispatch Center | transit traveler information | SCAT Transit Vehicles | Planned | |
| SCAT Dispatch Center | transit traveler information | Transit Stops/Stations Equipment | Planned | |
| SCAT Dispatch Center | transit vehicle operator information | SCAT Transit Vehicles | Planned | |
| SCAT Dispatch Center | work plan feedback | County and City Roadway Maintenance and Construction Systems | Planned | |
| SCAT Transit Vehicles | alarm notification | SCAT Dispatch Center | Planned | |
| SCAT Transit Vehicles | transit traveler request | SCAT Dispatch Center | Planned | |
| SCAT Transit Vehicles | transit vehicle conditions | SCAT Dispatch Center | Planned | |
| SCAT Transit Vehicles | transit vehicle location data | SCAT Dispatch Center | Existing | |
| SCAT Transit Vehicles | transit vehicle passenger and use data | SCAT Dispatch Center | Planned | |
| SCAT Transit Vehicles | transit vehicle schedule performance | SCAT Dispatch Center | Planned | |
| SCAT Website | transit information request | SCAT Dispatch Center | Planned | |
| Transit Stops/Stations Equipment | transit information user request | SCAT Dispatch Center | Planned | |
| Virtual Travel Planning Center | transit information request | SCAT Dispatch Center | Planned | |
| VOTRAN Transit Dispatch | transit service coordination | SCAT Dispatch Center | Planned | |

# Section 4

# ITS Stakeholders Worksheet

## ITS Stakeholders

| Stakeholder Name | Stakeholder Description | Group | Group Members |
|---|---|---|---|
| Airport Authorities | Represents regional airport authorities and agencies responsible for operating and maintaining regional airports. | No | |
| Amtrak | Nationwide passenger rail organization with service throughout the United States. | No | |
| Archived Data Users | Users of archived data. | No | |
| Brevard County | Represent the agencies and departments of Brevard County. | No | |
| Canaveral Port Authority | Represents the agency responsible for the operation of Port Canaveral. | No | |
| CHEMTREC | CHEMTREC (CHEMical TRansportation Emergency Center) was established by the chemical industry as a public service hotline for fire fighters, law enforcement, and other emergency responders to obtain information and assistance for emergency incidents involving chemicals and hazardous materials. | No | |
| City of Daytona Beach | Represents the municipal agencies and departments of the City of Daytona Beach. | No | |
| City of Maitland | Represents the municipal agencies and departments of the City of Maitland. | No | |
| City of Melbourne | Represents the municipal agencies and departments of the City of Melbourne. | No | |
| City of Melbourne Airport Authority | Represents the city agency responsible for operating and maintaining Melbourne airport. | No | |
| City of Ocala | Represents the municipal agencies and departments of the City of Ocala. | No | |
| City of Orlando | Represents the municipal agencies and departments of the City of Orlando. | No | |
| City of Winter Park | Represents the municipal agencies and departments of the City of Winter Park. | No | |
| Counties and Cities | Represents generic county and municipal agencies and departments, including public works departments, and permit offices. | No | |
| County and City Traffic Engineering | Represents the generic county and local traffic management agencies. | No | |
| County Emergency Management Agencies | Represents the generic county agencies and departments that coordinates emergency response during major disasters or incidents. | No | |
| County Public Safety Agencies | Represents the generic county public safety agencies, including EMS, fire departments, and sheriff's departments. | Yes | County Public Safety Agencies - Fire/EMS |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder Name | Stakeholder Description | Group | Group Members |
|---|---|---|---|
| County Public Safety Agencies | Represents the generic county public safety agencies, including EMS, fire departments, and sheriff's departments. | Yes | County Public Safety Agencies - Sheriffs Department |
| County School Districts | Represents the public school districts in Florida. | No | |
| Disney/Reedy Creek Improvement District | Reedy Creek Improvement District is a public corporation of the State of Florida and is located in Orange and Osceola Counties in central Florida, about 15 miles southwest of the City of Orlando. The District currently encompasses approximately 25,000 acres. The district is home to Disney World. | No | |
| FDOT | Florida Department of Transportation (FDOT). The mission of the department is to provide a safe and reliable transportation system that ensures the mobility of people and goods, enhances economic prosperity and preserves the quality of Florida's environment and communities. Various modes of transportation are supported by the department including roadways, railways, seaport and airports. | No | |
| FDOT Central Office of Information Services | The Office of Information Systems (OIS) is a division level organization within the Department of Transportation. The Chief Information Officer serves as the director of OIS. The primary functions of the OIS are to provide FDOT with a functional, statewide information processing and communications network, provide technical support for the Department's integrated office automation systems; provide staff controls for all statutory requirements of information resources in the area of procurement, security and finance; and manage all computer-based administrative and managerial data processing information. It is the mission of the Office of Information Systems to meet the requirements of customers who use computer-generated information by providing and supporting technology, systems, and services that are reliable, available, and protected. | No | |
| FDOT Central Planning Office | The central office for statewide transportation planning for FDOT. | No | |
| FDOT Central Planning Transportation Statistics Office | Florida Department of Transportation's central clearinghouse and principal source for highway and traffic data. | No | |
| FDOT Commission for the Transportation Disadvantaged | State of Florida Commission for the Transportation Disadvantaged (CTD). An independent commission housed administratively within the Florida Department of Transportation whose mission is to insure the availability of efficient, cost-effective, and quality transportation services for transportation disadvantaged persons. | No | |
| FDOT D5/FHP | A stakeholder group consisting of FDOT District 5 and FHP. Created for elements that are jointly operated by FDOT District 5 and FHP. | Yes | FDOT District 5 |
| FDOT D5/FHP | A stakeholder group consisting of FDOT District 5 and FHP. Created for elements that are jointly operated by FDOT District 5 and FHP. | Yes | Florida Highway Patrol |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder Name | Stakeholder Description | Group | Group Members |
|---|---|---|---|
| FDOT District 5 | Represents Florida Department of Transportation District 5, Central Florida, which includes the following counties: Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia. | No | |
| FDOT Turnpike Enterprise | Represents Florida Department of Transportation Turnpike Enterprise Division, which manages and operates limited-access toll highways in the State of Florida, including the Florida Turnpike. | No | |
| FDOT/LYNX | A stakeholder group composed of FDOT District 5 and LYNX Transit. | Yes | FDOT District 5 |
| FDOT/LYNX | A stakeholder group composed of FDOT District 5 and LYNX Transit. | Yes | LYNX |
| Financial Institutions | Financial and banking institutions that play a role in electronic payment financial transactions. | No | |
| Florida Department of Highway Safety and Motor Vehicles | The Florida Department of Highway Safety and Motor Vehicles promotes a safe driving environment through law enforcement, public education and service, reduction of traffic crashes, titling and registering of motor vehicles and vessels, licensing motor vehicle operators, and regulation of motor vehicle exhaust. | No | |
| Florida Department of Law Enforcement | Florida Department responsible for initiating Amber Alert messages. | No | |
| Florida Division of Emergency Management | A division of the Florida Department of Community Affairs, the Florida Division of Emergency Management is responsible for ensuring that the State of Florida is prepared to respond to emergencies, recover from them, and mitigate their impacts. | No | |
| Florida Highway Patrol | The Florida Highway Patrol's (FHP) mission is to promote a safe driving environment through aggressive law enforcement, public education, and safety awareness; reduce the number and severity of traffic crashes in Florida, preserve and protect human life and property. | No | |
| Greater Orlando Airport Authority | Represents airport authority responsible for operating and maintaining Orlando International airport | No | |
| Lake County | Represent the agencies and departments of Lake County. | No | |
| Local Agencies | Represents local government agencies and departments, including local fire/rescue departments, law enforcement providers, and emergency management agencies. | Yes | Local Agencies - Fire EMS/Rescue Departments |
| Local Agencies | Represents local government agencies and departments, including local fire/rescue departments, law enforcement providers, and emergency management agencies. | Yes | Local Agencies - Police Departments |
| Local Media | Owner/operators of communications media including television, cable TV, radio, and news papers. | No | |
| Local Transit Operators | Represents generic public transit operators, agencies, and their systems. | No | |

| Stakeholder Name | Stakeholder Description | Group | Group Members |
|---|---|---|---|
| Local Venue Promoters | Local event promoters, such as arenas. | No | |
| LYNX | LYNX is the primary transit system of the region operated by the Central Florida Regional Transportation Authority | No | |
| Manatee County Transportation Department | The Manatee County division responsible for traffic services in the county. | No | |
| Marion County Government | Represents the agencies and departments of Marion County | No | |
| MetroPlan Orlando | The Metropolitan Planning Organization (MPO) for the Orlando region. | No | |
| NASA/Private Companies | National Aeronautics and Space Administration | No | |
| NOAA | National Oceanic and Atmospheric Administration. Includes the National Weather Service and the National Hurricane Center. | No | |
| Orange County | Represents the agencies and departments of Orange County. | No | |
| Orange County/OCCC | Orange County Convention Center (OCCC) is owned and operated by Orange County and is the largest convention center in District 5. | No | |
| Orlando/Orange County Expressway Authority | The Orlando-Orange County Expressway Authority operates toll roads in Orange County and in adjacent counties if requested by local government. | No | |
| Osceola County Engineering | Represents the traffic and engineering departments of the Osceola County. | No | |
| Osceola County Expressway Authority | Planned new Expressway Authority for Osceola County. | No | |
| Parking Facility Operators | Operators of public or private parking facilities, including park-and-ride facilities. May include bus shuttle services provided by private park-and-ride facilities. | No | |
| Polk County Transit Services | Polk County Transit Services provide paratransit services for the county. | No | |
| Private Bus Companies | Represents private companies providing fixed route or paratransit services in the region. | No | |
| Private Commercial Vehicle and Fleet Operators | Owner/operators of private commercial vehicles and fleets. | No | |

| Stakeholder Name | Stakeholder Description | Group | Group Members |
|---|---|---|---|
| Private Concierge Service Provider | Private concierge service providers within the region. Includes Onstar, etc. | No | |
| Private Maintenance Contractors | Represents private companies hired by the public sector to provide roadway maintenance, ITS equipment maintenance or vehicle maintenance. | No | |
| Private Sector ISPs | Private traveler and transportation information service providers, including Mobility Technologies, SmartRoute Systems, Shadow Traffic, and Metro Traffic. | No | |
| Private Transit Operators | Owner/operators of bus services, including private long-distance bus service, private shuttle services, and demand-responsive bus services | No | |
| Private Weather Information Providers | Private companies providing weather services and information. | No | |
| Private/Public Regional Medical Centers | Hospital/trauma centers in the region. | No | |
| Probe Information Providers | Providers of probe information. These providers can provide wide area probe data information based on the location of cell phones, automated vehicle locators, and other technologies. | No | |
| Rail Operator | Generic owner/operator of commercial or passenger rail service. Includes CSXNS and FEC. | No | |
| Regional Public Safety Agencies | Represents the generic county and municipal public safety agencies, including EMS, fire departments, police departments, and sheriff's departments. Also represents the agencies that manage and operate PSAPs (Public Safety Answering Points). | No | |
| Regional Transit Management Agencies | Generic element representing transit management agencies and operators in the State of Florida. | No | |
| SCAT - Space Coast Area Transit | Transit provider in Brevard County | No | |
| Seminole County | Represents the agencies and departments of Seminole County. | No | |
| St. Lucie County Transit | Public transit provider for St. Lucie County. Includes a fixed route service (Treasure Coast Connector, which services St. Lucie County, Martin County, and Fort Pierce), and Community Transit, which is a demand-responsive bus service serving Fort Pierce and Port St. Lucie. Its website is at http://www.coasl.com/svc_transportation.html. | No | |
| SunGuide Partners/ISP Vendor Team | Represents the public agencies and private partners that operate and manage the regional 511 systems. | No | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder Name | Stakeholder Description | Group | Group Members |
|---|---|---|---|
| SUNTRAN | SUNTRAN provides fixed-route public transportation in the City of Ocala. SUNTRAN is a cooperative effort of the Ocala/Marion County Metropolitan Planning Organization, Marion County, the City of Ocala, the Florida Department of Transportation & Federal Transportation Administration. | Yes | City of Ocala |
| SUNTRAN | SUNTRAN provides fixed-route public transportation in the City of Ocala. SUNTRAN is a cooperative effort of the Ocala/Marion County Metropolitan Planning Organization, Marion County, the City of Ocala, the Florida Department of Transportation & Federal Transportation Administration. | Yes | FDOT |
| SUNTRAN | SUNTRAN provides fixed-route public transportation in the City of Ocala. SUNTRAN is a cooperative effort of the Ocala/Marion County Metropolitan Planning Organization, Marion County, the City of Ocala, the Florida Department of Transportation & Federal Transportation Administration. | Yes | Marion County Government |
| Traveler Information Radio Network | Private companies that provide traveler information radio in the region. | No | |
| Travelers | Represents the general public, including passengers and travelers. | No | |
| VII Provider | A private sector company that provides data support and vehicle support for all Vehicle Infrastructure Initiative (VII). | No | |
| Volusia County | Represents the agencies and departments of Volusia County. | No | |
| Volusia County MPO | The Metropolitan Planning Organization (MPO) for Volusia County and portions of Flagler County. | No | |
| VOTRAN | Volusia County's primary transit agency, providing fixed route and paratransit operations. | No | |
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# Section 5

# ITS Elements Worksheet

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

## Inventory – ITS Elements

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Airport Authorities | Air Freight Terminals | Represents regional air freight terminals. | Existing | Normal | Intermodal Freight Depot | | |
| Amtrak | Amtrak Passenger Train Terminal | Amtrak passenger train terminals located in the State of Florida. | Existing | Normal | Multimodal Transportation Service Provider | | |
| Archived Data Users | Archived Data User Systems | Users of archived data. | Existing | Normal | Archived Data User Systems | | |
| Brevard County | Brevard County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Brevard County that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Brevard County | Brevard County Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for Brevard County. | Existing | Normal | Traffic Management | | |
| Canaveral Port Authority | Port Canaveral | Marine terminals located in District 5. | Existing | Normal | Intermodal Freight Depot | | |
| Canaveral Port Authority | Port Canaveral | Marine terminals located in District 5. | Existing | Normal | Multimodal Transportation Service Provider | | |
| CHEMTREC | CHEMTREC | CHEMTREC (CHEMical TRansportation Emergency Center) was established by the chemical industry as a public service hotline for fire fighters, law enforcement, and other emergency responders to obtain information and assistance for emergency incidents involving chemicals and hazardous materials. | Existing | Normal | Fleet and Freight Management | | |
| City of Daytona Beach | City of Daytona Beach Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by the City of Daytona Beach that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| City of Daytona Beach | City of Daytona Beach Traffic Management Center | This staffed operational center controls traffic signals and other associated traffic management devices for Daytona Beach. | Existing | Normal | Traffic Management | | |
| City of Maitland | City of Maitland Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by the City of Maitland that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| City of Maitland | City of Maitland Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for the city of Maitland. | Existing | Normal | Traffic Management | | |
| City of Melbourne | City of Melbourne Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by City of Melbourne that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| City of Melbourne | City of Melbourne Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for the city of Melbourne. | Existing | Normal | Emissions Management | | |
| City of Melbourne | City of Melbourne Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for the city of Melbourne. | Existing | Normal | Traffic Management | | |
| City of Melbourne Airport Authority | Melbourne International Airport | This international airport serves the city of Melbourne and Brevard County. | Existing | Normal | Multimodal Transportation Service Provider | | |
| City of Ocala | City of Ocala Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by the City of Ocala that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| City of Ocala | City of Ocala Traffic Management Center | This staffed operational center controls traffic signals and other associated traffic management devices for the City of Ocala. | Existing | Normal | Traffic Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| City of Orlando | City of Orlando Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, CCTV, traffic control devices, and driver information systems) operated by the City of Orlando that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| City of Orlando | City of Orlando Traffic Management Center | This staffed operational center controls traffic signals and other associated traffic management devices for the City of Orlando. | Existing | Normal | Traffic Management | | |
| City of Winter Park | City of Winter Park Field Equipment | Represents the ITS field equipment operated by City of Winter Park, such as traffic controllers, detectors, traffic control devices, and driver information systems that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| City of Winter Park | City of Winter Park Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for the city of Winter Park. | Existing | Normal | Traffic Management | | |
| Counties and Cities | County and City Public Information System | Generic element representing the public information office systems that are operated by county and local governments. They provide information on road closures and other important traveler information in the region. | Existing | Normal | Information Service Provider | | |
| Counties and Cities | County and City Public Information System | Generic element representing the public information office systems that are operated by county and local governments. They provide information on road closures and other important traveler information in the region. | Existing | Normal | Maintenance and Construction Management | | |
| Counties and Cities | County and City PWD Vehicles | Generic element representing the ITS-devices (i.e., mobile data terminals) onboard the maintenance vehicles operated by county or city maintenance organizations. | Existing | Normal | Maintenance and Construction Vehicle | | |
| Counties and Cities | County and City Roadway Maintenance and Construction Systems | Generic element representing the road maintenance and construction systems operating in the region. This includes local, municipal and county maintenance departments. | Existing | Normal | Maintenance and Construction Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Counties and Cities | County and Local Asset Management Systems | This element represents asset management databases or systems operated by county or municipal agencies. | Planned | Normal | Asset Management | | |
| Counties and Cities | County and Local Drawbridge Systems | Miami-based US Coast Guard determines schedule for bridge openings and closings based on marine traffic and weather conditions. Marine traffic receives information from the Coast Guard on bridge schedules. Bridge tenders working for the county and local agencies actually control the raising and lowering of the bridges. Transponders that provide bridge status information (none currently implemented) would provide this information directly to the county and local operating agencies. | Existing | Normal | Multimodal Crossings | | |
| Counties and Cities | County and Local Equipment Repair Facility | This facility provides repair and maintenance services for county, local and municipal maintenance vehicles and equipment (e.g. portable DMS). | Existing | Normal | Equipment Repair Facility | | |
| Counties and Cities | Local Transportation Data Collection Systems | These systems collect traffic data, land use data, crash data (includes both short and long form inputs in some counties), and inventory data for localities, such as cities, counties, MPOs, or regional planning councils. | Planned | Normal | Archived Data Management Subsystem | | |
| Counties and Cities | Municipality Event Permit Systems | This generic element represents the special permit offices and associated systems that provide permits for large public gatherings and special events in the region. | Existing | Normal | Event Promoters | | |
| Counties and Cities | Other County and City Maintenance | Represents the maintenance systems and maintenance dispatch for other counties. This element is used to define the interface from the region's public works departments to those in other districts. | Existing | Normal | Maintenance and Construction Management | | |
| Counties and Cities | Other County and City Maintenance | Represents the maintenance systems and maintenance dispatch for other counties. This element is used to define the interface from the region's public works departments to those in other districts. | Existing | Normal | Other MCM | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| County and City Traffic Engineering | County and Local Field Equipment | Generic element representing smaller county and local ITS roadside field equipment not specifically enumerated in other inventory elements. This suggests that these traffic signal systems that are widely scattered through the district should be integrated in a consistent fashion, when circumstances require. ITS field equipment may include traffic signals, vehicle detectors, CCTV cameras, dynamic message signs, etc., to control and monitor traffic. | Planned | Normal | Roadway Subsystem | | |
| County and City Traffic Engineering | County and Local Traffic Control Systems | Generic element representing county and municipal traffic signal control systems. These systems control traffic signals and manage other ITS traffic management devices, such as dynamic message signs, and CCTV cameras. | Existing | Normal | Traffic Management | | |
| County Emergency Management Agencies | County Emergency Broadcast Systems | Generic element representing information systems used to disseminate emergency information, including evacuation routes. Such systems may include sirens, telephone numbers and web sites. | Existing | Normal | Information Service Provider | | |
| County Emergency Management Agencies | County EOCs/Warning Points | Generic element representing county emergency operation centers (EOCs). The county EOC provides a coordinating point for the effective management of local emergencies to catastrophic events in and around the county. It is the lead organization in coordinating disaster response from a municipal level to state and federal. Recovery planning and financial assistance from the State of Florida and FEMA are established through the EOC. | Existing | Normal | Emergency Management | | |
| County Public Safety Agencies | County Fire EMS/Rescue Dispatch | Generic element representing county fire and rescue dispatch centers. In some counties, this may include dispatching volunteer departments and EMS. The dispatch center provides call taking, communications, and dispatch functions. Note that there are multiple fire districts in some counties. In these cases, there is an overall county-wide dispatch operation that dispatches ambulances and other assets and independent dispatch operations for each of the other districts in the county. | Existing | Normal | Emergency Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| County Public Safety Agencies | County Fire EMS/Rescue Vehicles | Generic element representing the ITS-devices (i.e., mobile data terminals) onboard county fire trucks, fire apparatus, and other rescue vehicles. | Existing | Normal | Emergency Vehicle Subsystem | | |
| County Public Safety Agencies | County Sheriff Dispatch | Generic element representing the county sheriff dispatch center. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Emergency Management | | |
| County Public Safety Agencies | County Sheriff Dispatch | Generic element representing the county sheriff dispatch center. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Enforcement Agency | | |
| County Public Safety Agencies | County Sheriffs Vehicles | Generic element representing the ITS-devices (i.e., mobile data terminals) onboard county sheriff vehicles. | Existing | Normal | Emergency Vehicle Subsystem | | |
| County School Districts | School Buses | Represents the ITS equipment installed on school buses servicing Florida. General ITS capabilities are included here, omitting fare management capabilities, but with increased emphasis on the positive identification of students on the buses. | Existing | Normal | Transit Vehicle Subsystem | | |
| County School Districts | School District Transportation Dispatch | Represents the dispatch systems that manage school bus fleets. General ITS capabilities are included here, omitting fare management capabilities, but with increased emphasis on vehicle location and status tracking, associated security and safety systems, and the positive identification of students on the buses. | Existing | Normal | Emergency Management | | |
| County School Districts | School District Transportation Dispatch | Represents the dispatch systems that manage school bus fleets. General ITS capabilities are included here, omitting fare management capabilities, but with increased emphasis on vehicle location and status tracking, associated security and safety systems, and the positive identification of students on the buses. | Existing | Normal | Transit Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| County School Districts | School District Transportation Web Site | Web pages containing school bus information, including routes and schedules. In the future, may include real-time bus locations, status, and other school district transportation system status to parents, students, and school district employees | Existing | Normal | Information Service Provider | | |
| Disney/Reedy Creek Improvement District | Disney Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Disney on the Disney World property. | Existing | Normal | Roadway Subsystem | | |
| Disney/Reedy Creek Improvement District | Disney Traffic Operations Center | The traffic operations center that manages traffic on the Disney World property. | Existing | Normal | Traffic Management | | |
| FDOT | FDOT 511 System | This element represents the statewide aspects of the 511 system. | Planned | Normal | Telecommunications System for Traveler Information | | |
| FDOT | FDOT Asset Management Systems | Database systems used by FDOT to perform asset management. | Existing | Normal | Asset Management | | |
| FDOT | FDOT Statewide C2C Information Network | Represents a planned system to interface all the FDOT District Traffic Management Centers, and various other county- and locally operated traffic operations center. This information network will allow these centers to share traffic information, such as operational data and traffic images. | Planned | Normal | Other Traffic Management | | |
| FDOT | FDOT Statewide Transportation EOC (TEOC) | FDOT's Statewide Emergency Operations Center located in Tallahassee, which is staffed only during emergencies by representatives of all allied responding agencies. | Existing | Normal | Emergency Management | | |
| FDOT | Other FDOT District Infrastructure Monitoring Equipment | Infrastructure monitoring equipment including IR, cameras and motion detectors. These sensors and detectors are operated by other FDOT Districts to monitor and protect FDOT infrastructure and facilities, not for traffic monitoring, but allows other FDOT traffic management centers to view their data. | Existing | Normal | Security Monitoring Subsystem | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| FDOT | Other FDOT District Maintenance and Construction | Represents the maintenance systems and maintenance dispatch for other FDOT Districts. This element is used to define the interface from the region's FDOT Maintenance and Construction functions to those in other districts. | Existing | Normal | Maintenance and Construction Management | | |
| FDOT | Other FDOT District TMCs | Represents FDOT TMCs in other districts. This element is used to define the interface from the region's FDOT TMC to those in other districts. | Existing | Normal | Other Traffic Management | | |
| FDOT | Other FDOT District TMCs | Represents FDOT TMCs in other districts. This element is used to define the interface from the region's FDOT TMC to those in other districts. | Existing | Normal | Traffic Management | | |
| FDOT | Regional ITS Data Warehouse | The Regional ITS Data Warehouse will collect and archive traffic operational data for the district/region. There is a separate regional data warehouse for each FDOT district/region. This data warehouse could be a virtual data warehouse. | Planned | Normal | Archived Data Management Subsystem | | |
| FDOT | Rest Areas/Visitor Centers/Service Plazas | Rest areas and visitor centers with varied amenities owned, operated or managed by FDOT. Tourist information, emergency evacuation information, and general traffic information could be provided in the future. | Existing | Normal | Remote Traveler Support | | |
| FDOT Central Office of Information Services | FDOT Safety and Crash Data Collection System | This FDOT database stores crash reports and other safety-related transportation data. | Existing | Normal | Archived Data Management Subsystem | | |
| FDOT Central Office of Information Services | FDOT Statewide OIS Enterprise Databases | Operated and maintained by the FDOT Office of Information System, this is a statewide database that includes bridge inventory, roadway character inventory system, and pavement management systems. | Existing | Normal | Archived Data Management Subsystem | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| FDOT Central Planning Office | FDOT Traffic Count Stations | Traffic data collection systems deployed by FDOT to collect long term traffic data. The data collected by these telemetry stations includes vehicle weight and vehicle classification in addition to vehicle counts, speeds, and other standard traffic MOEs. | Existing | Normal | Roadway Subsystem | | |
| FDOT Central Planning Transportation Statistics Office | FDOT Traffic Characteristics Inventory | This statewide database collects long term traffic data for state roads in Florida. It collects this data from a number of traffic data collection sites around the state, including both temporary and permanent data collection sites. | Existing | Normal | Archived Data Management Subsystem | | |
| FDOT Commission for the Transportation Disadvantaged | Florida Human Service Agencies | Represents the various social service agencies operated by the State of Florida. Included in the ITS architecture because they provide (para) transit voucher payments through the Florida Transportation Disadvantage Commission. | Existing | Normal | Information Service Provider | | |
| FDOT Commission for the Transportation Disadvantaged | Florida Human Service Agencies | Represents the various social service agencies operated by the State of Florida. Included in the ITS architecture because they provide (para) transit voucher payments through the Florida Transportation Disadvantage Commission. | Existing | Normal | Social Services Agencies | | |
| FDOT D5/FHP | FDOT District 5 RTMC | The regional traffic management center that manages major roadways for Florida DOT in District 5 and interstates around Florida that are not monitored by other systems. This staffed center provides key traffic monitoring and motorist information systems for roadways (and bridges) in District 5 and around the state. It provides incident management for both planned (e.g. major sporting events) and unplanned incidents (e.g. major weather events) | Existing | Normal | Emergency Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| FDOT D5/FHP | FDOT District 5 RTMC | The regional traffic management center that manages major roadways for Florida DOT in District 5 and interstates around Florida that are not monitored by other systems. This staffed center provides key traffic monitoring and motorist information systems for roadways (and bridges) in District 5 and around the state. It provides incident management for both planned (e.g. major sporting events) and unplanned incidents (e.g. major weather events) | Existing | Normal | Other Traffic Management | | |
| FDOT D5/FHP | FDOT District 5 RTMC | The regional traffic management center that manages major roadways for Florida DOT in District 5 and interstates around Florida that are not monitored by other systems. This staffed center provides key traffic monitoring and motorist information systems for roadways (and bridges) in District 5 and around the state. It provides incident management for both planned (e.g. major sporting events) and unplanned incidents (e.g. major weather events) | Existing | Normal | Traffic Management | | |
| FDOT District 5 | Central Florida Data Warehouse | These systems collect traffic data, crash data (including both short and long form inputs in some counties), weather date, maintenance/construction information and inventory data for each of the transportation-relevant systems in District 5. | Existing | Normal | Archived Data Management Subsystem | | |
| FDOT District 5 | Central Florida TMC Information Network | This element represents an information sharing network between TMCs in the region. | Planned | Normal | Other Traffic Management | | |
| FDOT District 5 | FDOT District 5 Construction and Maintenance | This element represents the dispatch function for the districts maintenance and construction operations. | Existing | Normal | Maintenance and Construction Management | | |
| FDOT District 5 | FDOT District 5 Emergency Operations Center | Represents the District Emergency Operation Center. Each FDOT district maintains its own Emergency Operations Center which is activated for major incidents that affect the district. | Existing | Normal | Emergency Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| FDOT District 5 | FDOT District 5 Equipment Repair Facility | This facility provides repair and maintenance services for FDOT District 5 maintenance vehicles and equipment (e.g. portable DMS). | Existing | Normal | Equipment Repair Facility | | |
| FDOT District 5 | FDOT District 5 Field Equipment | Represents the ITS field equipment operated by that is owned and operated by FDOT to manage traffic on state roads and interstates in District 5. This includes vehicle detectors, CCTV cameras, dynamic message signs, road weather information sensors, etc., to control and monitor traffic. | Existing | Normal | Roadway Subsystem | | |
| FDOT District 5 | FDOT District 5 Infrastructure Monitoring Equipment | Infrastructure monitoring equipment including IR, cameras and motion detectors. These sensors and detectors are operated by FDOT District 5 to monitor and protect FDOT infrastructure and facilities, and not for traffic monitoring. | Planned | Normal | Security Monitoring Subsystem | | |
| FDOT District 5 | FDOT District 5 Maintenance Vehicles | Represents the ITS-devices (i.e., mobile data terminals) onboard the maintenance and construction vehicle owned and operated by FDOT District 5. This may include vehicles currently operated or owned by private contractors but used for FDOT projects. | Existing | Normal | Maintenance and Construction Vehicle | | |
| FDOT District 5 | FDOT District 5 Office | Administrative HQ for the district. | Existing | Normal | Maintenance and Construction Management | | |
| FDOT District 5 | FDOT District 5 Public Information Office Systems | Systems operated by the public information office that provide long-range traveler information, such as road construction advisories, to the media, other organizations, and travelers in District 5. The information provided may include planned closures, maintenance activities, and other non-real time travel advisories. | Existing | Normal | Information Service Provider | | |
| FDOT District 5 | FDOT District 5 Transportation Data Warehouse | This system collects and archives traffic data, land use data, crash data (includes both short and long form inputs in some counties), and inventory data for each of the transportation-relevant systems in District 5. This information is then provided to the statewide archive in Tallahassee. | Existing | Normal | Archived Data Management Subsystem | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| FDOT District 5 | FDOT District 5 VII Roadside Equipment | This element represents the roadside equipment that performs VII (Vehicle Infrastructure Integration) data collection and dissemination. This element includes the VII message switch that is used to provide access to the roadside equipment from various centers. | Planned | Normal | Roadway Subsystem | | |
| FDOT Turnpike Enterprise | FTE Boca Data Center | Tolls Operations Center at Boca provides overall administration for FTE Toll system. | Existing | Normal | Toll Administration | | |
| FDOT Turnpike Enterprise | FTE Data Dissemination Field Equipment | Represents the ITS field equipment operated by the Florida Turnpike Enterprise including DMSs, HARs, and other public information dissemination systems. Includes portable DMSs. | Existing | Normal | Roadway Subsystem | | |
| FDOT Turnpike Enterprise | FTE Motorist Aid Call Boxes | Emergency call boxes operated by the FDOT Turnpike Enterprise and are connected to an Operations Center. | Existing | Normal | Remote Traveler Support | | |
| FDOT Turnpike Enterprise | FTE Operations Center (Turkey Lake) | This Turnpike Enterprise operations center is located at Turkey Lake and manages Turnpike operations in the northern portion of the turnpike system. This regional TMC is staffed by both FDOT Turnpike and Florida Highway Patrol personnel. | Existing | Normal | Emergency Management | | |
| FDOT Turnpike Enterprise | FTE Operations Center (Turkey Lake) | This Turnpike Enterprise operations center is located at Turkey Lake and manages Turnpike operations in the northern portion of the turnpike system. This regional TMC is staffed by both FDOT Turnpike and Florida Highway Patrol personnel. | Existing | Normal | Information Service Provider | | |
| FDOT Turnpike Enterprise | FTE Operations Center (Turkey Lake) | This Turnpike Enterprise operations center is located at Turkey Lake and manages Turnpike operations in the northern portion of the turnpike system. This regional TMC is staffed by both FDOT Turnpike and Florida Highway Patrol personnel. | Existing | Normal | Maintenance and Construction Management | | |
| FDOT Turnpike Enterprise | FTE Operations Center (Turkey Lake) | This Turnpike Enterprise operations center is located at Turkey Lake and manages Turnpike operations in the northern portion of the turnpike system. This regional TMC is staffed by both FDOT Turnpike and Florida Highway Patrol personnel. | Existing | Normal | Other Traffic Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| FDOT Turnpike Enterprise | FTE Operations Center (Turkey Lake) | This Turnpike Enterprise operations center is located at Turkey Lake and manages Turnpike operations in the northern portion of the turnpike system. This regional TMC is staffed by both FDOT Turnpike and Florida Highway Patrol personnel. | Existing | Normal | Toll Administration | | |
| FDOT Turnpike Enterprise | FTE Operations Center (Turkey Lake) | This Turnpike Enterprise operations center is located at Turkey Lake and manages Turnpike operations in the northern portion of the turnpike system. This regional TMC is staffed by both FDOT Turnpike and Florida Highway Patrol personnel. | Existing | Normal | Traffic Management | | |
| FDOT Turnpike Enterprise | SunPass Customer Service Center | Customer Service Centers (CSCs) for the SunPass electronic toll system, providing administrative back office and customer support functions for the electronic toll system. | Existing | Normal | Toll Administration | | |
| FDOT Turnpike Enterprise | SunPass Tag | SunPass vehicle transponder used for electronic payment of toll and other, e.g. Airport Parking. | Existing | Normal | Traveler Card | | |
| FDOT Turnpike Enterprise | SunPass Tag | SunPass vehicle transponder used for electronic payment of toll and other, e.g. Airport Parking. | Existing | Normal | Vehicle | | |
| FDOT/LYNX | FDOT District 5 Road Ranger Service Patrol Dispatch | This is the service patrol operated by FDOT/LYNX that provides motorist assistance on limited access roads. | Existing | Normal | Emergency Management | | |
| FDOT/LYNX | FDOT District 5 Road Ranger Service Patrol Vehicles | Represents the ITS-devices (i.e., mobile data terminals) onboard the service patrol vehicles that provide roadside assistance to individuals traveling on limited access roads in District 5. | Existing | Normal | Emergency Vehicle Subsystem | | |
| Financial Institutions | Financial Institutions | Banking and financial institutions used by ITS systems to perform various banking transactions (e.g., funds transfers, credit card account management). | Existing | Normal | Financial Institution | | |
| Florida Department of Highway Safety and Motor Vehicles | Florida DMV Licensing and Registration System | Vehicle registration systems of the Florida Department of Highway Safety and Motor Vehicles. These systems provides commercial driver's license and vehicle registration in the State of Florida. | Existing | Normal | DMV | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Florida Department of Law Enforcement | FDLE Headquarters | Represents the Florida Department of Law Enforcement Office in Tallahassee that originates Amber Alerts. | Existing | Normal | Emergency Management | | |
| Florida Department of Law Enforcement | FDLE Headquarters | Represents the Florida Department of Law Enforcement Office in Tallahassee that originates Amber Alerts. | Existing | Normal | Enforcement Agency | | |
| Florida Division of Emergency Management | Florida Statewide EOC/Warning Point (SEOC) | The state emergency operations center, located in Tallahassee that provides central command and control during major emergencies in the state of Florida. Serves as an information clearinghouse for disaster-related information. Includes a regional database containing the evacuation routes for the regional area. Includes basic primary and secondary route information. | Existing | Normal | Emergency Management | | |
| Florida Highway Patrol | FHP Regional Administration | FHP regional administration office. | Existing | Normal | Emergency Management | | |
| Florida Highway Patrol | FHP Regional Dispatch | Represents the regional dispatch centers for the Florida Highway Patrol. The dispatch centers provide call taking, communications, and dispatch functions. | Existing | Normal | Emergency Management | | |
| Florida Highway Patrol | FHP Regional Dispatch | Represents the regional dispatch centers for the Florida Highway Patrol. The dispatch centers provide call taking, communications, and dispatch functions. | Existing | Normal | Enforcement Agency | | |
| Florida Highway Patrol | FHP Troop K Dispatch | Represents the dispatch center for the Florida Highway Patrol Troop K, which patrols the FTE Highway System. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Emergency Management | | |
| Florida Highway Patrol | FHP Troop K Dispatch | Represents the dispatch center for the Florida Highway Patrol Troop K, which patrols the FTE Highway System. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Enforcement Agency | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Florida Highway Patrol | Florida Highway Patrol Vehicles | Represents the ITS-devices (i.e., mobile data terminals) onboard the vehicles that are owned by the state and operated by the Florida Highway Patrol. | Existing | Normal | Emergency Vehicle Subsystem | | |
| Greater Orlando Airport Authority | Orlando International Airport | The major international airport serving the city of Orlando and the surrounding area. | Existing | Normal | Multimodal Transportation Service Provider | | |
| Lake County | Lake County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Lake County that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Lake County | Lake County Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for Lake County. | Existing | Normal | Traffic Management | | |
| Lake County | Lake Trans Dispatch | Represents the dispatch function of Lake Trans transit. | Existing | Normal | Transit Management | | |
| Lake County | Lake Trans Vehicles | Represents the ITS equipment installed on the transit vehicles that are owned and operated by Lake Trans. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| Local Agencies | Local Agency Traveler Information System | Generic element representing the traveler information systems that are operated by local governments and agencies. They provide real-time and planned traveler information in the region through a variety of methods, including web sites, interactive telephone systems, pagers, etc. | Existing | Normal | Information Service Provider | | |
| Local Agencies | Local EOCs | Generic element representing municipal and local emergency operation centers (EOCs). The Local EOC provides a coordinating point for the effective management of local emergencies to catastrophic events in and around a metropolitan area. It is the lead organization in coordinating disaster response from a municipal level to state and federal. | Existing | Normal | Emergency Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Local Agencies | Local Fire/EMS Dispatch | Generic element representing the local and municipal Fire Rescue and EMS dispatch centers. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Emergency Management | | |
| Local Agencies | Local Fire/EMS Vehicles | Generic element representing the ITS-devices (i.e., mobile data terminals) onboard the fire trucks, fire apparatus, EMS vehicles and other vehicles operated by local and municipal fire departments. | Existing | Normal | Emergency Vehicle Subsystem | | |
| Local Agencies | Local Police Dispatch | Generic element representing the local and municipal police dispatch centers. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Emergency Management | | |
| Local Agencies | Local Police Dispatch | Generic element representing the local and municipal police dispatch centers. The dispatch center provides call taking, communications, and dispatch functions. | Existing | Normal | Enforcement Agency | | |
| Local Agencies | Local Police Vehicles | Generic element representing the ITS-devices (i.e., mobile data terminals) onboard local and municipal police vehicles. | Existing | Normal | Emergency Vehicle Subsystem | | |
| Local Media | Newspapers, Radio, Television Stations | The numerous local media (newspaper, radio, television) stations. | Existing | Normal | Media | | |
| Local Transit Operators | Local Transit Operator Systems | This generic element represents smaller, local and municipal transit agencies providing fixed route and paratransit service in the region. This element also represents the systems that provide operations, maintenance, customer information, planning and management functions for the transit agency. | Planned | Normal | Transit Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Local Venue Promoters | Local Venue Event Scheduling System | This general system represents the convention centers, music centers, sporting facilities and other venues that regularly host events that impact traffic. Specific examples in the Southeast Florida region include the Pompano Beach Harness Track, the Gulfstream Race Track, Thomas J. White Stadium, Lockhart Stadium, and the Heron Bay Country Club. Major venues for professional sports teams (e.g., American Airlines Arena and National Car Rental Center) are specifically identified by other elements in this regional architecture. | Existing | Normal | Event Promoters | | |
| LYNX | Access LYNX Paratransit Systems | Shuttle services that do not operate on fixed routes or schedules, offering door to door service in the District 5 Region. This includes systems for qualified users. This includes Transportation Disadvantaged Systems. In emergencies the system may be used to provide service to the general public. | Existing | Normal | Transit Management | | |
| LYNX | Access LYNX Paratransit Vehicles | Represents the ITS equipment installed on the transit vehicles that are owned and operated by Access LYNX on its shuttle services that do not operate on fixed routes or schedules, offering door to door service in the District 5 Region. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| LYNX | LYNX Commuter Rail | A potential commuter rail system that would serve the greater Orlando area, providing principal connections between the planned intermodal center and many business and recreational hubs in and around Orlando. | Planned | Normal | Multimodal Transportation Service Provider | | |
| LYNX | LYNX FlexBus Transit Central System | Demand responsive transit services that operate on designated fixed routes (but not schedules), offering door to door service for ADA clients and designated transit stop to transit stop service for other clients in the District 5 Region. This system can operate in a "shared ride" fashion where multiple requests for pickup can be accommodated by one FlexBus for qualified users. This includes Transportation Disadvantaged Systems. In emergencies the system may be used to provide service to the general public. | Planned | Normal | Transit Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| LYNX | LYNX FlexBus Transit Vehicles | This element represents the ITS equipment installed on the transit vehicles that are owned and operated by LYNX (or its subcontractors) for its FlexBus service that operates as demand response vehicles, offering designated transit stop to stop service in guaranteed 12 minute intervals for the District 5 Region. Capabilities may include AVL, CAD systems, MDTs, passenger counting, transit scheduling, fare management, on-board DMS, CCTV and silent alarms. | Planned | Normal | Transit Vehicle Subsystem | | |
| LYNX | LYNX Maintenance Dispatch | Represents the LYNX maintenance facilities that perform vehicle maintenance and dispatch maintenance vehicles. | Existing | Normal | Transit Management | | |
| LYNX | LYNX Operations Center | The transit operations center provides fixed route transit service in Orange Osceola, and Seminole Counties serving the cities of Orlando and Kissimmee and surrounding areas. The center also provides DOT express bus service between Daytona Beach and Orlando, in cooperation with VOTRAN. The center provides operations, maintenance, customer information, planning and management functions for the transit property. This element spans distinct central dispatch and garage management systems. | Existing | Normal | Transit Management | | |
| LYNX | LYNX Road Ranger Vehicles | Represents the ITS-devices (i.e., mobile data terminals) onboard the service patrol vehicles that provide roadside assistance to LYNX fixed-route transit and paratransit vehicles. | Planned | Normal | Emergency Vehicle Subsystem | | |
| LYNX | LYNX Transit Vehicles | Represents the ITS equipment installed on the fixed route transit vehicles, serving routes in Orange, Osceola, and Seminole counties, providing service to the cities of Orlando and Kissimmee and surrounding areas. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| LYNX | LYNX Website | Represents the website operated by LYNX that provides schedule, route, and fare information. | Existing | Normal | Information Service Provider | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| LYNX | Orlando Intermodal Center | Centers are planned for several locations in and around Orlando. Supported by LYNX, taxi, private bus, and other possibilities like commuter rail, Greyhound. | Planned | Normal | Multimodal Transportation Service Provider | | |
| LYNX | Virtual Travel Planning Center | This center will provide trip planning services for travelers in the Orlando region. Best multi-modal routes will be provided based on the travelers requirements. | Planned | Normal | Emergency Management | | |
| LYNX | Virtual Travel Planning Center | This center will provide trip planning services for travelers in the Orlando region. Best multi-modal routes will be provided based on the travelers requirements. | Planned | Normal | Information Service Provider | | |
| Manatee County Transportation Department | Manatee County Traffic Signal Control System | Manatee county currently operates a Distributed Master Computerized Traffic Signal Control System. In the future, this system will evolve to provide coordinated management of a variety of traffic information and control systems in the county, providing integrated control of systems both in the county and within the jurisdiction of cities within the county. See the companion "Manatee County and Cities Advanced Traffic Management System" element for a description of these planned capabilities. | Existing | Normal | Traffic Management | | |
| Marion County Government | Marion County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Marion County that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Marion County Government | Marion County Traffic Management Center | This staffed operational center controls traffic signals and other associated traffic management devices for Marion County. | Planned | Normal | Traffic Management | | |
| Marion County Government | Marion Transit Services Dispatch | Paratransit service operated by Marion County | Existing | Normal | Transit Management | | |
| Marion County Government | Marion Transit Vehicles | Represents the ITS equipment installed on the fixed-route transit vehicles that are owned and operated by the Marion Transit. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| MetroPlan Orlando | MetroPlan Transportation Data Collection System | This system collects transportation data for the MetroPlan Metropolitan Planning Organization to support transportation planning. | Planned | Normal | Archived Data Management Subsystem | | |
| NASA/Private Companies | Canaveral/Kennedy Space Port | This Space Port at the Kennedy Space Center is a major launch site that puts passenger and freight payloads into space. This unique extension to the Florida Architecture has several implications for the transportation system. Today its primary impact is in the commercial traffic that supports the launches and the launches themselves which are a special event that brings additional traffic congestion and incident management requirements to the region surrounding the space port. | Planned | Normal | Event Promoters | | |
| NASA/Private Companies | Canaveral/Kennedy Space Port | This Space Port at the Kennedy Space Center is a major launch site that puts passenger and freight payloads into space. This unique extension to the Florida Architecture has several implications for the transportation system. Today its primary impact is in the commercial traffic that supports the launches and the launches themselves which are a special event that brings additional traffic congestion and incident management requirements to the region surrounding the space port. | Planned | Normal | Multimodal Transportation Service Provider | | |
| NOAA | National Hurricane Center Info. System | This system provides information to the public by issuing watches, warnings, forecasts, and analyses of hazardous weather conditions in the tropics. | Existing | Normal | Weather Service | | |
| NOAA | National Weather Service | National Oceanic and Atmospheric Administration regional field office. | Existing | Normal | Weather Service | | |
| Orange County | Orange County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Orange County that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Orange County | Orange County Traffic Management Center | This staffed operational center controls traffic signals and other associated traffic management devices for Orange County. | Existing | Normal | Traffic Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Orange County/OCCC | OCCC/IDRA Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Orange County/OCCC that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Orange County/OCCC | OCCC/IDRA Operations Center | This traffic management center will provide traffic signal control ,parking management, and driver information in the area surrounding the Orange County Convention Center and the International Drive Resort Area. | Existing | Normal | Parking Management | | |
| Orange County/OCCC | OCCC/IDRA Operations Center | This traffic management center will provide traffic signal control ,parking management, and driver information in the area surrounding the Orange County Convention Center and the International Drive Resort Area. | Existing | Normal | Traffic Management | | |
| Orange County/OCCC | Orlando Convention Center Parking Facility | Represents the ITS aspects of the parking facilities at the Orlando Convention Center | Existing | Normal | Parking Management | | |
| Orlando/Orange County Expressway Authority | E-Pass Headquarters | E-Pass Headquarters performs toll reconciliation with the FTE system. | Existing | Normal | Toll Administration | | |
| Orlando/Orange County Expressway Authority | E-Pass Service Center | The Customer Service Centers that distribute E-Pass tags and provide the back room functions. | Existing | Normal | Toll Administration | | |
| Orlando/Orange County Expressway Authority | E-Pass Tag | Tag used for OOCEA tolls. | Existing | Normal | Traveler Card | | |
| Orlando/Orange County Expressway Authority | E-Pass Tag | Tag used for OOCEA tolls. | Existing | Normal | Vehicle | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Orlando/Orange County Expressway Authority | OOCEA Construction and Maintenance Operations | Represents maintenance and construction dispatch for OOCEA | Existing | Normal | Maintenance and Construction Management | | |
| Orlando/Orange County Expressway Authority | OOCEA Maintenance Vehicles | Represents the ITS-devices (i.e., mobile data terminals) onboard the maintenance and construction vehicle owned, operated and/or contracted by OOCEA. This may include vehicles currently operated or owned by private contractors but used for OOCEA projects. | Existing | Normal | Maintenance and Construction Vehicle | | |
| Orlando/Orange County Expressway Authority | OOCEA Road Ranger Dispatch | The OOCEA Road Ranger Service Patrol Dispatch is currently handled by a private contractor and done through the Florida Highway Patrol dispatch capabilities. | Existing | Normal | Emergency Management | | |
| Orlando/Orange County Expressway Authority | OOCEA Road Ranger Service Patrol Vehicles | Represents the ITS-devices (i.e., mobile data terminals) onboard the vehicles that provide roadside assistance to individuals traveling on the OOCEA managed systems. Road ranger vehicles contracted out to OOCEA. Have AVL. Dispatched by FHP at FDOT D5 RTMC. Roam a circuit by default. | Existing | Normal | Emergency Vehicle Subsystem | | |
| Orlando/Orange County Expressway Authority | OOCEA Toll Plazas | Electronic toll collection equipment, E.g., tag readers, toll booth equipment, lane curtains, etc., in Orange County. | Existing | Normal | Toll Collection | | |
| Orlando/Orange County Expressway Authority | OOCEA Traffic Management Server | Represents the OOCEA server used to collect and disseminate travel time information. | Existing | Normal | Information Service Provider | | |
| Orlando/Orange County Expressway Authority | OOCEA Traffic Management Server | Represents the OOCEA server used to collect and disseminate travel time information. | Existing | Normal | Toll Administration | | |
| Orlando/Orange County Expressway Authority | OOCEA Traffic Management Server | Represents the OOCEA server used to collect and disseminate travel time information. | Existing | Normal | Traffic Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Orlando/Orange County Expressway Authority | OOCEA Website | Website operated by OOCEA that provides toll system and construction information. | Existing | Normal | Information Service Provider | | |
| Osceola County Engineering | Osceola County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by the City of Kissimmee that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Osceola County Engineering | Osceola County Traffic Operations Center | This staffed operational center controls traffic signals and other associated traffic management devices for the city of Kissimmee. | Existing | Normal | Traffic Management | | |
| Osceola County Expressway Authority | OOCEA Field Equipment | Represents the ITS field equipment operated by OOCEA, including traffic signals, vehicle detectors, CCTV cameras, dynamic message signs, etc., to control and monitor traffic. | Existing | Normal | Roadway Subsystem | | |
| Osceola County Expressway Authority | Osceola County Customer Service Center | Customer service center providing administrative back office and customer support functions for the Osceola County electronic toll collection system. | Existing | Normal | Toll Administration | | |
| Parking Facility Operators | Private/Public Parking Facility Operators | Represents major parking facilities in downtown areas, resort areas, airports, and other major travel destinations and transportation hubs. May also include park-and-ride facilities. | Existing | Normal | Parking Management | | |
| Polk County Transit Services | PCTS Paratransit Vehicles | Represents the ITS equipment installed on the paratransit vehicles that are owned and operated by Polk County Transit. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| Polk County Transit Services | Polk County Transit Services | Dispatch function for Polk County Transit. | Existing | Normal | Transit Management | | |
| Private Bus Companies | I-RIDE Tourist Shuttle Dispatch | This includes the transit operations centers that manage tourist shuttles in the Orlando region. This includes the Disney bus dispatch operation as well as other tourist shuttle dispatch centers in the region. | Existing | Normal | Transit Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Private Bus Companies | I-RIDE Tourist Shuttles | Represents the ITS equipment installed on the shuttle vehicles that are owned and operated for I-RIDE. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| Private Commercial Vehicle and Fleet Operators | Commercial Vehicle | Privately owned commercial vehicles. Included in the architecture to cover HAZMAT incident reporting. | Existing | Normal | Basic Commercial Vehicle | | |
| Private Commercial Vehicle and Fleet Operators | Commercial Vehicle | Privately owned commercial vehicles. Included in the architecture to cover HAZMAT incident reporting. | Existing | Normal | Basic Vehicle | | |
| Private Commercial Vehicle and Fleet Operators | Commercial Vehicle | Privately owned commercial vehicles. Included in the architecture to cover HAZMAT incident reporting. | Existing | Normal | Commercial Vehicle Subsystem | | |
| Private Commercial Vehicle and Fleet Operators | Commercial Vehicle | Privately owned commercial vehicles. Included in the architecture to cover HAZMAT incident reporting. | Existing | Normal | Vehicle | | |
| Private Commercial Vehicle and Fleet Operators | Private Fleet Vehicle Dispatch Systems | Charter bus fleets, major truck fleet operators, taxi services, limo services, etc. that operate in Florida. Note that the dispatch may actually be outside the state. | Existing | Normal | Fleet and Freight Management | | |
| Private Concierge Service Provider | Private Sector Mayday/Concierge Service Center | Private sector services, such as GM OnStar, that provide emergency Mayday and a variety of other traveler convenience services to their clients. | Existing | Normal | Archived Data User Systems | | |
| Private Concierge Service Provider | Private Sector Mayday/Concierge Service Center | Private sector services, such as GM OnStar, that provide emergency Mayday and a variety of other traveler convenience services to their clients. | Existing | Normal | Emergency Management | | |
| Private Concierge Service Provider | Private Sector Mayday/Concierge Service Center | Private sector services, such as GM OnStar, that provide emergency Mayday and a variety of other traveler convenience services to their clients. | Existing | Normal | Information Service Provider | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Private Maintenance Contractors | Private Maintenance and Construction Dispatch | Represent private maintenance contractors responsible for maintaining ITS field equipment and other asset management inventories. | Existing | Normal | Maintenance and Construction Management | | |
| Private Sector ISPs | Private Sector Traveler Information Services | Private Information Service Providers of traveler information. e.g. SmartGuide, SmartRoutes, Shadow Traffic, MetroNetworks, TraffiCenter, etc... | Existing | Normal | Information Service Provider | | |
| Private Transit Operators | Inter-City Bus Service | Inter-city bus services that provide passenger bus service to and between cities in Florida. | Existing | Normal | Multimodal Transportation Service Provider | | |
| Private Transit Operators | Inter-City Bus Service | Inter-city bus services that provide passenger bus service to and between cities in Florida. | Existing | Normal | Transit Management | | |
| Private Weather Information Providers | Private/Public Weather Information Providers | This element represents the variety of public and private weather services that provide weather forecasts and real-time weather information. | Existing | Normal | Weather Service | | |
| Private/Public Regional Medical Centers | Private/Public Ambulance Dispatch | Dispatch center for private/public ambulance service. Currently operating out of the county dispatch centers. | Existing | Normal | Emergency Management | | |
| Private/Public Regional Medical Centers | Private/Public Ambulance Vehicles | Generic element representing the ITS-devices (i.e., mobile data terminals) onboard private/public ambulances. These emergency medical services vehicles are part of an rapid and effective response to highway incidents that include injuries. | Existing | Normal | Emergency Vehicle Subsystem | | |
| Private/Public Regional Medical Centers | Regional Medical Centers | Regional hospitals and care facilities. | Existing | Normal | Care Facility | | |
| Probe Information Providers | Probe Monitoring Systems | This system collects wide-area probe data through the use of various technologies including, but not limited to, location of cell phones, automated vehicle locators, and other technologies. | Planned | Normal | Information Service Provider | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Rail Operator | Rail Intermodal Terminals | Represents intermodal rail terminals used to transfer freight between commercial vehicles and rail. | Existing | Normal | Intermodal Freight Depot | | |
| Rail Operator | Rail Operations Centers | Represents the operational control centers for heavy rail operators that serve Florida. | Existing | Normal | Other Data Sources | | |
| Rail Operator | Rail Operations Centers | Represents the operational control centers for heavy rail operators that serve Florida. | Existing | Normal | Rail Operations | | |
| Rail Operator | Railroad Operators Wayside Equipment | Grade crossing equipment operated by the railroads which provides driver warnings and notifies adjacent traffic control equipment of approaching trains. | Existing | Normal | Wayside Equipment | | |
| Regional Public Safety Agencies | 911 Emergency Call Centers | Represents the various county and local call taker systems that handle 911 calls. This includes the FHP, county sheriffs, and many local police call taker systems. It also includes E911 systems. | Existing | Normal | Emergency Management | | |
| Regional Public Safety Agencies | 911 Emergency Call Centers | Represents the various county and local call taker systems that handle 911 calls. This includes the FHP, county sheriffs, and many local police call taker systems. It also includes E911 systems. | Existing | Normal | Other Emergency Management | | |

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Regional Public Safety Agencies | Other Public Safety Communications and Dispatch Centers | This element represents the connection to other state (FHP and FDLE), County (Sheriff and Fire Rescue), and Local (municipal police and fire departments) law enforcement, fire, and EMS call taker and dispatch centers. It may include campus law enforcement providers, volunteer fire/rescue departments, federal law enforcement agencies, federal homeland security agencies, and other centers established for major incidents. This element is used in the architecture to show a consistent interface for the exchange of data between public safety systems that supports incident notification, hand-offs, resource coordination, and incident response coordination. Communication between these centers uses a mesh topology - any emergency management center can communicate directly with any other emergency management center. Note that this element also represents interfaces to emergency management centers in adjacent jurisdictions that also coordinate during major incidents. | Existing | Normal | Emergency Management | | |
| Regional Public Safety Agencies | Other Public Safety Communications and Dispatch Centers | This element represents the connection to other state (FHP and FDLE), County (Sheriff and Fire Rescue), and Local (municipal police and fire departments) law enforcement, fire, and EMS call taker and dispatch centers. It may include campus law enforcement providers, volunteer fire/rescue departments, federal law enforcement agencies, federal homeland security agencies, and other centers established for major incidents. This element is used in the architecture to show a consistent interface for the exchange of data between public safety systems that supports incident notification, hand-offs, resource coordination, and incident response coordination. Communication between these centers uses a mesh topology - any emergency management center can communicate directly with any other emergency management center. Note that this element also represents interfaces to emergency management centers in adjacent jurisdictions that also coordinate during major incidents. | Existing | Normal | Other Emergency Management | | |
| Regional Public Safety Agencies | Regional HAZMAT Team | Represents regional HAZMAT response teams. May consist of local, county and/or FDOT public safety responders. | Existing | Normal | Emergency Management | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Regional Public Safety Agencies | Regional Incident and Mutual Aid Network | Regional Public Safety Communications Network. | Existing | Normal | Other Emergency Management | | |
| Regional Transit Management Agencies | Transit Facility Security Monitoring System | The surveillance systems and emergency notification systems that can be used to improve security in transit terminals and other public areas. | Existing | Normal | Remote Traveler Support | | |
| Regional Transit Management Agencies | Transit Facility Security Monitoring System | The surveillance systems and emergency notification systems that can be used to improve security in transit terminals and other public areas. | Existing | Normal | Security Monitoring Subsystem | | |
| Regional Transit Management Agencies | Transit Kiosks | A generic element representative of all kiosks that provide individuals with traveler information. Transit kiosks provide transit information to transit customers, support electronic fare payment, and enhance security at transit stops. In the statewide architecture, the emphasis is on the interface to the electronic payment card, which is a statewide interface. | Planned | Normal | Remote Traveler Support | | |
| Regional Transit Management Agencies | Transit Stops/Stations Equipment | The places where travelers "catch the bus" and need schedule, transit service, and real-time arrival information to support their travel choices. | Planned | Normal | Remote Traveler Support | | |
| SCAT - Space Coast Area Transit | SCAT Dispatch Center | Combined fixed route and paratransit dispatch center for SCAT. | Existing | Normal | Transit Management | | |
| SCAT - Space Coast Area Transit | SCAT Transit Vehicles | Represents the ITS equipment installed on the fixed-route transit and paratransit vehicles that are owned and operated by the Space Coast Area Transit (SCAT). Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| SCAT - Space Coast Area Transit | SCAT Website | Website containing schedule, fare and route information. | Existing | Normal | Information Service Provider | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Seminole County | Orlando-Sanford International Airport | This international airport serves the Orlando region, providing | Existing | Normal | Multimodal Transportation Service Provider | | |
| Seminole County | Seminole County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Seminole County that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |
| Seminole County | Seminole County Traffic Action Center (SEMTAC) | The SEMTAC center controls traffic signals and other associated traffic management devices for Seminole County. | Existing | Normal | Traffic Management | | |
| St. Lucie County Transit | St. Lucie Community Transit Systems | The transit operations center provides fixed route and demand-responsive transit service countywide. The center provides operations, maintenance, customer information, planning and management functions for the transit property. Also represents other related transit systems, including transit security systems, and the fare management systems. | Existing | Normal | Emergency Management | | |
| St. Lucie County Transit | St. Lucie Community Transit Systems | The transit operations center provides fixed route and demand-responsive transit service countywide. The center provides operations, maintenance, customer information, planning and management functions for the transit property. Also represents other related transit systems, including transit security systems, and the fare management systems. | Existing | Normal | Transit Management | | |
| SunGuide Partners/ISP Vendor Team | Central Florida Traveler Information System | The system that provides near real-time advanced traveler information in the Central Florida region. This includes the regional 511 system. The system may include video images, travel time information, construction information, and subscription services. | Planned | Normal | Information Service Provider | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| SUNTRAN | SUNTRAN Transit Dispatch Center | The transit operations center provides fixed route transit service in the City of Ocala and Marion County. The center provides operations, maintenance, customer information, planning and management functions for the transit property. This element spans distinct central dispatch and garage management systems. | Existing | Normal | Transit Management | | |
| SUNTRAN | SUNTRAN Transit Vehicles | Represents the ITS equipment installed on the fixed route transit vehicles operated by SUNTRAN, providing service to the City of Ocala and Marion County. Capabilities may include passenger counting, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| Traveler Information Radio Network | Traveler Info. Radio Network Stations | These radio stations provide drivers with information about current traffic and roadway conditions. | Planned | Normal | Media | | |
| Travelers | Private Travelers Personal Computing Devices | E.g., cellular telephones, PDAs, and personal computers. | Existing | Normal | Personal Information Access | | |
| Travelers | Smart Card | A card used by a traveler to pay for transportation-related services (e.g., parking fees, transit fares, traveler services). | Existing | Normal | Traveler Card | | |
| Travelers | Vehicles | Represents the ITS elements installed on private traveler vehicles. | Existing | Normal | Vehicle | | |
| VII Provider | VII Private Sector Partner | Private partner for vehicle information initiative (VII) that coordinates with public agencies and their systems. | Planned | Normal | Traffic Management | | |
| Volusia County | Daytona Beach International Airport | General aviation and freight airports in District 5. | Existing | Normal | Multimodal Transportation Service Provider | | |
| Volusia County | Volusia County Field Equipment | Represents the ITS field equipment (traffic controllers, detectors, traffic control devices, and driver information systems) operated by Volusia County that monitor and controls traffic. | Existing | Normal | Roadway Subsystem | | |

Turbo Architecture Table - Central Florida Regional ITS Architecture - FDOT District 5

| Stakeholder | Element Name | Element Description | Element Status | Element Type | Associated Entity | Parent Element | Related Architecture |
|---|---|---|---|---|---|---|---|
| Volusia County | Volusia County Traffic Management Center | These staffed operational centers controls traffic signals and other associated traffic management devices for Volusia County. There are two centers at Holly Hill and Deland. | Existing | Normal | Traffic Management | | |
| Volusia County MPO | Volusia County MPO Transportation Data Collection System | This system collects transportation data for the Volusia County Metropolitan Planning Organization to support transportation planning. | Planned | Normal | Archived Data Management Subsystem | | |
| VOTRAN | VOTRAN Maintenance Dispatch | Maintenance facility for VOTRAN transit vehicles. | Existing | Normal | Transit Management | | |
| VOTRAN | VOTRAN Transit Dispatch | The transit operations center provides fixed route transit and paratransit service to Volusia County, and provides broader service to the District 5 region in coordination with LYNX transit. The center provides operations, maintenance, customer information, planning and management functions for the transit property. | Existing | Normal | Emergency Management | | |
| VOTRAN | VOTRAN Transit Dispatch | The transit operations center provides fixed route transit and paratransit service to Volusia County, and provides broader service to the District 5 region in coordination with LYNX transit. The center provides operations, maintenance, customer information, planning and management functions for the transit property. | Existing | Normal | Transit Management | | |
| VOTRAN | VOTRAN Transit Vehicles | Represents the ITS equipment installed on the fixed route and paratransit vehicles that are owned and operated by Volusia County. Capabilities may include passenger counting, AVL, transit scheduling, and fare management. | Existing | Normal | Transit Vehicle Subsystem | | |
| VOTRAN | VOTRAN Website | VOTRAN Website provides transit route and paratransit information. | Existing | Normal | Information Service Provider | | |

# Section 6

# ITS Element Requirements Worksheet

ITS Element Requirements Worksheet – Brevard County

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| Brevard County Field Equipment | Field elements to monitor and control traffic at multimodal crossings, such as draw bridges and other crossings between highway traffic and other modes; does not include highway-rail intersection. | | Multimodal Crossing Control | Roadway Subsystem |
| Brevard County Field Equipment | Field elements that monitor traffic conditions using loop detectors and CCTV cameras. | | Roadway Basic Surveillance | Roadway Subsystem |
| Brevard County Field Equipment | Environmental sensors, surface and sub-surface, that collect weather and road surface information. Weather conditions measured include temperature, wind, humidity, precipitation, and visibility. Sensors measure road surface temperature, moisture, icing, salinity, etc. | | Roadway Environmental Monitoring | Roadway Subsystem |
| Brevard County Field Equipment | Field elements that control and send data to other field elements (such as environmental sensors that send data to a DMS or coordination between traffic controllers on adjacent intersections), without center control. | | Roadway Equipment Coordination | Roadway Subsystem |
| Brevard County Field Equipment | Field elements to collect traffic and road conditions from passing vehicles; both anonymous toll/parking tag readings for link time calculations and smart probe data supported. | | Roadway Probe Beacons | Roadway Subsystem |
| Brevard County Field Equipment | Field elements including traffic signal controllers for use at signalized intersections; also supports pedestrian crossings. | | Roadway Signal Controls | Roadway Subsystem |
| Brevard County Field Equipment | Field elements that provide the capability to receive vehicle signal priority requests and control traffic signals accordingly. | | Roadway Signal Priority | Roadway Subsystem |
| Brevard County Field Equipment | Driver information systems, such as dynamic message signs and Highway Advisory Radio (HAR). | | Roadway Traffic Information Dissemination | Roadway Subsystem |
| Brevard County Field Equipment | Work zone intrusion detection devices (to detect vehicle intrusion upon a work zone or crew worker movement across a work zone boundary) and intrusion alerting devices that provide alerts to crew and drivers. | | Roadway Work Zone Safety | Roadway Subsystem |
| Brevard County Field Equipment | Field elements in maintenance and construction areas including CCTV cameras, driver information systems (such as DMS), and gates/barriers that monitor and control traffic and provide information directly to drivers in affected areas. | | Roadway Work Zone Traffic Control | Roadway Subsystem |
| Brevard County Field Equipment | Field elements at highway-rail intersections (HRIs) where operational requirements do not dictate advanced features (e.g., where rail operational speeds are less than 80 miles per hour). Includes traditional HRI warning systems augmented with other standard traffic management devices. | | Standard Rail Crossing | Roadway Subsystem |

ITS Element Requirements Worksheet – Brevard County

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | Management of traffic sensors and surveillance (CCTV) equipment, and distribution of the collected information to other centers and operators. | | Collect Traffic Surveillance | Traffic Management |
| Brevard County Traffic Operations Center | Remotely monitor and control highway-rail intersection (HRI) equipment, includes standard speed active warning systems and high speed systems which provide additional information on approaching trains and detect and report on obstructions in the HRI. | | HRI Traffic Management | Traffic Management |
| Brevard County Traffic Operations Center | Management of environmental sensors and assimilation of collected data with other current and forecast road conditions and surface weather information from weather service providers and roadway maintenance operations. | | TMC Environmental Monitoring | Traffic Management |
| Brevard County Traffic Operations Center | Development, coordination, and execution of special traffic management strategies during evacuation and subsequent reentry of a population in the vicinity of a disaster or major emergency. Interfaces with emergency management and other traffic management centers. | | TMC Evacuation Support | Traffic Management |
| Brevard County Traffic Operations Center | Remotely controls ramp meters, interchange connector meters, lane control signals, mainline meters, and variable speed control systems. | | TMC Freeway Management | Traffic Management |
| Brevard County Traffic Operations Center | Remotely controls traffic and video sensors to support incident detection and verification; exchange information with other agencies including emergency management, maintenance and construction, alerting and advisory systems, event promoters, intermodal freight depots, and traveler information systems. | | TMC Incident Detection | Traffic Management |
| Brevard County Traffic Operations Center | Center-based capability to formulate an incident response that takes into account the incident potential, incident impacts, and/or resources required for incident management including proposing and facilitating the dispatch of emergency response and service vehicles as well as coordinating response with all appropriate cooperating agencies. | | TMC Incident Dispatch Coordination/Communication | Traffic Management |
| Brevard County Traffic Operations Center | Remotely monitors and manages multimodal crossings, such as draw bridges and other crossings between highway traffic and other modes; does not include highway-rail intersection. | | TMC Multimodal Crossing Management | Traffic Management |
| Brevard County Traffic Operations Center | Collects, assimilates, and disseminates vehicle probe data collected from roadside beacons and centers controlling transit vehicles, emergency vehicles, toll collection points, and route-guided vehicles. | | TMC Probe Information Collection | Traffic Management |

ITS Element Requirements Worksheet – Brevard County

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| Brevard County Traffic Operations Center | Coordination between traffic management centers in order to share traffic information between centers as well as control of traffic management field equipment. This may be used during incidents and special events and during day-to-day operations. | | TMC Regional Traffic Control | Traffic Management |
| Brevard County Traffic Operations Center | Remotely controls traffic signal controllers to implement traffic management strategies at signalized intersections based on traffic conditions, incidents, emergency vehicle preemptions, pedestrian crossings, etc. | | TMC Signal Control | Traffic Management |
| Brevard County Traffic Operations Center | Controls dissemination of traffic-related data to other centers, the media, and travelers via the driver information systems (DMS, HAR) that it operates. | | TMC Traffic Information Dissemination | Traffic Management |
| Brevard County Traffic Operations Center | Coordination with maintenance systems using work zone images and traveler information systems (such as DMS), and distribution of work plans so that work zones are established that have minimum traffic impact. | | TMC Work Zone Traffic Management | Traffic Management |
| Brevard County Traffic Operations Center | Collection and storage of traffic management data. For use by operations personnel or data archives in the region. | | Traffic Data Collection | Traffic Management |
| Brevard County Traffic Operations Center | Monitoring and remote diagnostics of field equipment - detect failures, issue problem reports, and track the repair or replacement of the failed equipment. | | Traffic Maintenance | Traffic Management |

ITS Element Requirements Worksheet – City of Melbourne

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| City of Melbourne Field Equipment | Field elements that monitor traffic conditions using loop detectors and CCTV cameras. | | Roadway Basic Surveillance | Roadway Subsystem |
| City of Melbourne Field Equipment | Environmental sensors, surface and sub-surface, that collect weather and road surface information. Weather conditions measured include temperature, wind, humidity, precipitation, and visibility. Sensors measure road surface temperature, moisture, icing, salinity, etc. | | Roadway Environmental Monitoring | Roadway Subsystem |
| City of Melbourne Field Equipment | Field elements that control and send data to other field elements (such as environmental sensors that send data to a DMS or coordination between traffic controllers on adjacent intersections), without center control. | | Roadway Equipment Coordination | Roadway Subsystem |
| City of Melbourne Field Equipment | Field elements to collect traffic and road conditions from passing vehicles; both anonymous toll/parking tag readings for link time calculations and smart probe data supported. | | Roadway Probe Beacons | Roadway Subsystem |
| City of Melbourne Field Equipment | Field elements including traffic signal controllers for use at signalized intersections; also supports pedestrian crossings. | | Roadway Signal Controls | Roadway Subsystem |
| City of Melbourne Field Equipment | Field elements that provide the capability to receive vehicle signal priority requests and control traffic signals accordingly. | | Roadway Signal Priority | Roadway Subsystem |
| City of Melbourne Field Equipment | Driver information systems, such as dynamic message signs and Highway Advisory Radio (HAR). | | Roadway Traffic Information Dissemination | Roadway Subsystem |
| City of Melbourne Field Equipment | Field elements in maintenance and construction areas including CCTV cameras, driver information systems (such as DMS), and gates/barriers that monitor and control traffic and provide information directly to drivers in affected areas. | | Roadway Work Zone Traffic Control | Roadway Subsystem |
| City of Melbourne Field Equipment | Field elements at highway-rail intersections (HRIs) where operational requirements do not dictate advanced features (e.g., where rail operational speeds are less than 80 miles per hour). Includes traditional HRI warning systems augmented with other standard traffic management devices. | | Standard Rail Crossing | Roadway Subsystem |

ITS Element Requirements Worksheet – City of Melbourne

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| City of Melbourne Traffic Operations Center | Management of traffic sensors and surveillance (CCTV) equipment, and distribution of the collected information to other centers and operators. | | Collect Traffic Surveillance | Traffic Management |
| City of Melbourne Traffic Operations Center | Collection and storage of air quality and emissions management information. For use by operations personnel or data archives in the region. | | Emissions Data Collection | Emissions Management |
| City of Melbourne Traffic Operations Center | Remotely monitor and control highway-rail intersection (HRI) equipment, includes standard speed active warning systems and high speed systems which provide additional information on approaching trains and detect and report on obstructions in the HRI. | | HRI Traffic Management | Traffic Management |
| City of Melbourne Traffic Operations Center | Management of environmental sensors and assimilation of collected data with other current and forecast road conditions and surface weather information from weather service providers and roadway maintenance operations. | | TMC Environmental Monitoring | Traffic Management |
| City of Melbourne Traffic Operations Center | Development, coordination, and execution of special traffic management strategies during evacuation and subsequent reentry of a population in the vicinity of a disaster or major emergency. Interfaces with emergency management and other traffic management centers. | | TMC Evacuation Support | Traffic Management |
| City of Melbourne Traffic Operations Center | Remotely controls ramp meters, interchange connector meters, lane control signals, mainline meters, and variable speed control systems. | | TMC Freeway Management | Traffic Management |
| City of Melbourne Traffic Operations Center | Remotely controls traffic and video sensors to support incident detection and verification; exchange information with other agencies including emergency management, maintenance and construction, alerting and advisory systems, event promoters, intermodal freight depots, and traveler information systems. | | TMC Incident Detection | Traffic Management |
| City of Melbourne Traffic Operations Center | Center-based capability to formulate an incident response that takes into account the incident potential, incident impacts, and/or resources required for incident management including proposing and facilitating the dispatch of emergency response and service vehicles as well as coordinating response with all appropriate cooperating agencies. | | TMC Incident Dispatch Coordination/Communication | Traffic Management |

ITS Element Requirements Worksheet – City of Melbourne

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| City of Melbourne Traffic Operations Center | Collects, assimilates, and disseminates vehicle probe data collected from roadside beacons and centers controlling transit vehicles, emergency vehicles, toll collection points, and route-guided vehicles. | | TMC Probe Information Collection | Traffic Management |
| City of Melbourne Traffic Operations Center | Coordination between traffic management centers in order to share traffic information between centers as well as control of traffic management field equipment. This may be used during incidents and special events and during day-to-day operations. | | TMC Regional Traffic Control | Traffic Management |
| City of Melbourne Traffic Operations Center | Remotely controls traffic signal controllers to implement traffic management strategies at signalized intersections based on traffic conditions, incidents, emergency vehicle preemptions, pedestrian crossings, etc. | | TMC Signal Control | Traffic Management |
| City of Melbourne Traffic Operations Center | Controls dissemination of traffic-related data to other centers, the media, and travelers via the driver information systems (DMS, HAR) that it operates. | | TMC Traffic Information Dissemination | Traffic Management |
| City of Melbourne Traffic Operations Center | Coordination with maintenance systems using work zone images and traveler information systems (such as DMS), and distribution of work plans so that work zones are established that have minimum traffic impact. | | TMC Work Zone Traffic Management | Traffic Management |
| City of Melbourne Traffic Operations Center | Collection and storage of traffic management data. For use by operations personnel or data archives in the region. | | Traffic Data Collection | Traffic Management |
| City of Melbourne Traffic Operations Center | Monitoring and remote diagnostics of field equipment - detect failures, issue problem reports, and track the repair or replacement of the failed equipment. | | Traffic Maintenance | Traffic Management |

ITS Element Requirements Worksheet – Space Coast Area Transit

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| SCAT Dispatch Center | Management of fixed route transit operations. Planning, scheduling, and dispatch associated with fixed and flexible route transit services. Updates customer service operator systems, and provides current vehicle schedule adherence and optimum scenarios for schedule adjustment. | | Transit Center Fixed-Route Operations | Transit Management |
| SCAT Dispatch Center | Provide interactive traveler information to travelers (on-board transit vehicles, at stops/stations, using personal devices), traveler information service providers, media, and other transit organizations. Includes routes, schedules, transfer options, fares, real-time schedule adherence, current incidents, weather conditions, yellow pages, and special events. | | Transit Center Information Services | Transit Management |
| SCAT Dispatch Center | Generate requests for transit priority on routes and at certain intersections. Coordinate schedules with other agencies and modes, including transit transfer cluster and transfer point information. | | Transit Center Multi-Modal Coordination | Transit Management |
| SCAT Dispatch Center | Management of demand response transit services, including paratransit. Planning and scheduling of these services. Supports automated vehicle dispatch and automatically updates customer service operator systems. | | Transit Center Paratransit Operations | Transit Management |
| SCAT Dispatch Center | Monitor transit vehicle operator or traveler activated alarms; authenticate transit vehicle operators; remotely disable a transit vehicle; alert operators, travelers, and police to potential incidents identified by these security features. | | Transit Center Security | Transit Management |
| SCAT Dispatch Center | Monitoring transit vehicle locations via interactions with on-board systems. Furnish users with real-time transit schedule information and maintain interface with digital map providers. | | Transit Center Vehicle Tracking | Transit Management |
| SCAT Dispatch Center | Support evacuation and subsequent reentry of a population in the vicinity of a disaster or other emergency. Coordinate regional evacuation plans and resources including transit and school bus fleets. | | Transit Evacuation Support | Transit Management |
| SCAT Dispatch Center | Collect operational and maintenance data from transit vehicles, manage vehicle service histories, automatically generate preventative maintenance schedules, and provide information to service personnel. | | Transit Garage Maintenance | Transit Management |
| SCAT Dispatch Center | Assignment of transit vehicles and operators to routes or service areas in a fair manner while minimizing labor and overtime services, considering operator preferences, qualifications, accumulated work hours, and other information about each operator. | | Transit Vehicle Operator Scheduling | Transit Management |
| SCAT Transit Vehicles | Collecting of data for schedule generation and adjustment on-board a transit vehicle. Supports communication between the vehicle, operator, and center. | | On-board Fixed Route Schedule Management | Transit Vehicle Subsystem |
| SCAT Transit Vehicles | On-board systems to collect and process transit vehicle maintenance data including mileage and vehicle operating conditions for use in scheduling future vehicle maintenance. | | On-board Maintenance | Transit Vehicle Subsystem |

ITS Element Requirements Worksheet – Space Coast Area Transit

| Element Name | Functional Area Description | Status | Functional Area | Entity Name |
|---|---|---|---|---|
| SCAT Transit Vehicles | On-board systems to manage paratransit and flexible-route dispatch requests, including multi-stop runs. Inputs based on the transit vehicle's type and passenger capacity. | | On-board Paratransit Operations | Transit Vehicle Subsystem |
| SCAT Transit Vehicles | On-board systems to furnish next-stop annunciation as well as interactive travel-related information, including routes, schedules, transfer options, fares, real-time schedule adherence, current incidents, weather conditions, non-motorized transportation services, and special events. | | On-board Transit Information Services | Transit Vehicle Subsystem |
| SCAT Transit Vehicles | On-board video/audio surveillance systems, threat sensors, and object detection sensors to enhance security and safety on-board a transit vehicles. Also includes silent alarms activated by transit user or vehicle operator, operator authentication, and remote vehicle disabling. | | On-board Transit Security | Transit Vehicle Subsystem |
| SCAT Transit Vehicles | Support fleet management with automatic vehicle location (AVL) and automated mileage and fuel reporting and auditing. | | On-board Transit Trip Monitoring | Transit Vehicle Subsystem |
| SCAT Website | | | | Information Service Provider |

# Section 7

# Stakeholders Roles and Responsibilities Worksheet

Stakeholder Role and Responsibilities Worksheet – Brevard County

| Stakeholder | RR Description | RR Area Name | RR Status |
|---|---|---|---|
| Brevard County | Perform network surveillance for detection and verification of incidents on county roads, and send traffic/incident information and traffic images to county fire/EMS/sheriff agencies, the FHP, the county EOC, and local fire/EMS/police agencies. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Provide incident information to travelers via traffic information devices on county roads, and through local ISPs, Web sites, and the local media. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Receive incident information, incident response status, and resource requests from the county EOC/warning points. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Coordinate maintenance resources for incident response with county and city maintenance and construction systems. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| Brevard County | Coordinate evacuation and reentry plans with the county EOC/warning points. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Provide traffic information to travelers using the county public information system, private companies, the central Florida traveler information system, and the media. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Receive AMBER Alerts and other wide area alert information from the county EOC/warning points. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Coordinate emergency plans, incident responses, and resources with the county EOC/warning points. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Provide traffic information to travelers using Brevard County DMS devices. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| Brevard County | Provide traffic and road network information to local transit agencies (Sarasota County SCAT). | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| Brevard County | Provide traffic information in a coordination effort to the FDOT statewide C2C information network and the central Florida TMC information network. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |

Stakeholder Role and Responsibilities Worksheet – Brevard County

| Stakeholder | RR Description | RR Area Name | RR Status |
|---|---|---|---|
| Brevard County | Coordinate HRI signal adjustments, and provide track status information (e.g.. blockage) to rail operators and local traffic operations. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Obtain traffic images and traffic flow data from Brevard County CCTVs and field sensors, and maintain operational control of all field equipment. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Operate county and local drawbridge systems in conjunction with county signal systems. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Coordinate traffic information and traffic control with the FDOT District 5 regional transportation management center (RTMC). | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Coordinate traffic information with the City of Melbourne Traffic Operations Center (TOC). | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Operate traffic signal systems, including CCTVs, signals, and sensors, for Brevard County. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Coordinate emergency traffic signal control with the county EOC/warning points. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| Brevard County | Provide emergency signal preemption for county and local fire/EMS agencies. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |

Stakeholder Role and Responsibilities Worksheet – City of Melbourne

| Stakeholder | RR Description | RR Area Name | RR Status |
|---|---|---|---|
| City of Melbourne | Perform network surveillance for detection and verification of incidents on city streets, and send traffic/incident information and traffic images to county fire/EMS/sheriff agencies, the FHP, the county EOC, and local fire/EMS/police agencies. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Provide incident information to travelers using traffic information devices on city streets, and through local ISPs, Web sites, and the local media. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Receive incident information, incident response status, and resource requests from the county EOC/warning point. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Coordinate maintenance resources for incident response with county and city maintenance and construction systems. | Incident Management (Traffic and Maintenance) for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| City of Melbourne | Coordinate evacuation and reentry plans with the county EOC/warning points. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Provide traffic information to travelers via private companies; county and city public information systems; and the media. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Receive AMBER Alerts and other wide area alert information from the county EOC/warning points. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Coordinate emergency plans, incident responses, and resources with the county EOC/warning points. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Provide traffic information to travelers using City of Melbourne DMS devices. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| City of Melbourne | Provide traffic information and road network conditions to local transit operations, including SCAT. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| City of Melbourne | Provide traffic information in a coordination effort to the FDOT statewide C2C information network and the southwest Florida TMC information network. | Information Dissemination for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |

Stakeholder Role and Responsibilities Worksheet – City of Melbourne

| Stakeholder | RR Description | RR Area Name | RR Status |
|---|---|---|---|
| City of Melbourne | Coordinate HRI signal adjustments, and provide track status information (e.g., blockage) to rail operators and local traffic operations. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Coordinate traffic information with the Brevard County TOC. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Operate traffic signal systems, including CCTVs, signals, and sensors, for the City of Melbourne. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Coordinate emergency traffic signal control with the county EOC/warning points. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| City of Melbourne | Provide emergency signal preemption for county and local fire/EMS agencies. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| City of Melbourne | Obtain traffic images and traffic flow data from CCTVs and field sensors, and maintain operational control of its own field equipment. | Traffic Signal Control for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |

Stakeholder Role and Responsibilities Worksheet – Space Coast Area Transit

| Stakeholder | RR Description | RR Area Name | RR Status |
|---|---|---|---|
| SCAT - Space Coast Area Transit | Provide operator instructions and receive schedule performance information from transit vehicles while in service. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| SCAT - Space Coast Area Transit | Provide fixed-route bus service and paratransit/demand-responsive transit service for Brevard County. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| SCAT - Space Coast Area Transit | Track and evaluate schedule performance on all SCAT transit vehicles. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| SCAT - Space Coast Area Transit | Provide transit schedule and fare information to the central Florida traveler information system, local agency traveler information systems, and the SCAT Web site. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Existing |
| SCAT - Space Coast Area Transit | Receive road network conditions from regional traffic management agencies. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Provide transit security on all transit vehicles using silent alarms. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Receive work zone information and road network status from regional maintenance and construction agencies. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Coordinate multimodal connections for fixed-route transit vehicles with other regional transit agencies and multimodal service providers. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Provide transit traveler information to the SCAT Web site, local private sector traveler information services, and local agency traveler information systems, and make it available on all SCAT transit vehicles and at transit station kiosks. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Coordinate a transit security breach with local police and the county sheriff. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Provide a demand-responsive transit plan to users and travelers using local agency traveler information systems. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |
| SCAT - Space Coast Area Transit | Coordinate emergency plans with county EOCs, and provide emergency transit services for evacuations, fires, and disasters, including reentry services. | Transit Management for Central Florida Regional ITS Architecture - FDOT District 5 | Planned |

# Section 8

# Project Planning Worksheet

# Project Planning Worksheet

**Based on your transportation improvement plan what future Projects do you anticipate awarding and what are the goals and objectives of those projects as it relates to the regional ITS architecture. Include all projects listed within your year TIP.**

*(See "RITSA Goals and Objects" section in the RITSA Update Reference Guide to complete ITS Support Goals and Objectives columns below)*

| Project Name | Description | Planned /Existing | Contract/FM Number | State or Federal Project | ITS Support Goals (ID) | Objectives (ID) |
|---|---|---|---|---|---|---|
| I-75 from SR 44 to North US 27 | Installing fiber, CCTV, MVDS and DMS on I-75 | Planned | 428213-1-52-01 | State Funded | 2, 5 | 14a, 19ab, 79a, 81e |
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**Please list the contracts or agreements (e.g. JPA, LAP, Interlocal, MOU, MOA, Signal agreements, etc.) that will need to be executed as a result of the new projects listed above.**

| Project Name | Agreement Type (JPA, RFP, etc.) | Agreement Name | Purpose of Agreement | Begin Date | End Date |
|---|---|---|---|---|---|
| I-75 from SR 44 to North US 27 | RFP-DB | RFP Name | Design and build ITS system on I-75 | 2014 | 2015 |
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**Please denote existing and future connections and market packages that are in used or planned as a result of the projects listed above?**
**(Please highlight in Red any new elements not defined in the current ITS Architecture.)** *(See also Market Package Descriptions)*

| Project Name Or FM Number | Source Element *(See Inventory by Stakeholder)* | Data Flow *(See Architecture Flow Description)* | Destination Element *(See Inventory by Stakeholder)* | Market Packages | Planned /Existing |
|---|---|---|---|---|---|
| 428213-1-52-01 | RTMC | Traffic Sensor Control | Field Equipment (MVDS) | ATMS04 | |
| | RTMC | Field Device Status Request | Field Equipment (MVDS) | ATMS04 | |
| | RTMC | Roadway Information System Data | Field Equipment (DMS) | ATMS06 | |
| | RTMC | Video Surveillance Control | Field Equipment (CCTV) | ATMS01 | |
| | Field Equipment (MVDS) | Traffic Flow | RTMC | ATMS04 | |
| | Field Equipment (DMS) | Roadway Information System Status | RTMC | ATMS06 | |
| | Field Equipment (CCTV) | Traffic Images | RTMC | ATMS01 | |
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What are the expected requirements of the new ITS Elements in regards to the new data flows listed above? Element requirements are defined as Equipment Packages?

*(Please reference the "Equipment Packages Descriptions" section of the RITSA Update Reference Guide to select the equipment packages)*

| New Elements | Equipment Packages |
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What are the expected roles and responsibilities of the Stakeholders in regards to the new Elements listed above?

*(Please reference the "Stakeholder Responsibilities" section of the RITSA Update Reference Guide)*

| Elements | Stakeholder | Responsibilities *(see RR Description)* |
|---|---|---|
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# Section 9

# Definitions

## Definitions:

**Architecture Flow:** Information that is exchanged between subsystems and terminators in the physical architecture of the National ITS Architecture. Architecture flows are the primary tool that is used to define interfaces in regional ITS architectures and project ITS architectures. Architecture flows and their communication requirements define the interfaces which form the basis for much of the ongoing standards work in the national ITS program. The terms "information flow" and "architecture flow" are used interchangeably.

**Data Flow:** Representations of data flowing between processes or between a process and a terminator in the logical architecture of the National ITS Architecture. A data flow is shown as an arrow on a data flow diagram and is defined in a data dictionary entry in the logical architecture. Data flows are aggregated together to form high-level architecture flows in the physical architecture of the National ITS Architecture.

**Data Flow Diagram:** The diagrams in the logical architecture of the National ITS Architecture that show the functions that are required for ITS and the information that moves between these functions.

**Element:** An ITS system or piece of a system named as the name used by stakeholders. Elements are the basic building blocks of regional ITS architectures and project ITS architectures.

**Entity:** (Subsystems and Terminators make up Entities) Entities are the persons, places, and things that make up an intelligent transportation system. In the physical architecture, an entity represents a National ITS Architecture subsystem or terminator.

**Equipment Package:** The building blocks of the subsystems of the physical architecture subsystems. Equipment packages group similar processes of a particular subsystem together into an implementable package. The grouping also takes into account the user services and the need to accommodate various levels of functionality. The equipment packages were used as a basis for estimating deployment costs (as part of the evaluation that was performed). Since equipment packages are both the most detailed elements of the physical architecture of the National ITS Architecture and tied to specific service packages, they provide the common link between the interface-oriented architecture definition and the deployment-oriented service packages.

**Informational Flow:** Information that is exchanged between subsystems and terminators in the physical architecture of the National ITS Architecture. The terms "information flow" and "architecture flow" are used interchangeably. Information flows are the primary tool that is used to define the ITS architecture interfaces. These information flows and their communication requirements define the interfaces which form the basis for much of the ongoing standards work in the national ITS program.

**Inventory:** The list of all ITS-related elements in a regional ITS architecture or project ITS architecture.

**ITS Architecture:** Defines an architecture of interrelated systems that work together to deliver transportation services. An ITS architecture defines how systems functionally operate and the interconnection of information exchanges that must take place between these systems to accomplish transportation services.

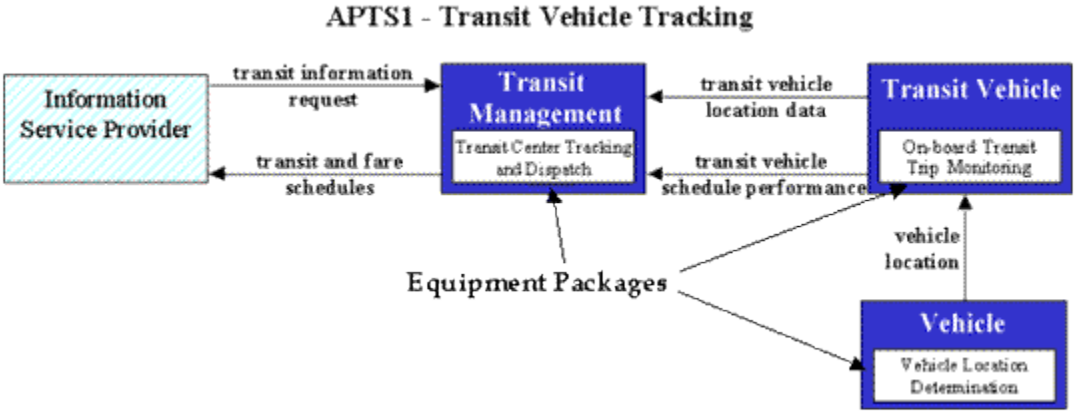
**Logical Architecture:** The part of the National ITS Architecture that defines what has to be done to support the ITS user services. It defines the processes that perform ITS functions and the information or data flows that are shared between these processes. The logical architecture was developed using Structured Analysis techniques and consists of data flow diagrams, process specifications, and data dictionary entries. The logical architecture has also been called an "Essential Model" because it is not technology specific, nor does it dictate a particular implementation. This implementation independence makes the logical architecture accommodating to innovation, scalable from small scale implementations to large regional systems, and supportive of widely varied system designs.

**Performance Measure:** Indicator of how well the transportation system is performing with regard to such measures as average speed, reliability of travel, and accident rates. Used as feedback in the decision making process.

**Planning Factors:** As specified in the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) legislation (in Section 5303 and Section 5304 of Title 49 of the United States Code), the nine areas which metropolitan planning organizations (MPOs) and states should consider when developing their transportation plans.

**Physical Architecture:** The part of the National ITS Architecture that provides agencies with a physical representation (though not a detailed design) of the important ITS interfaces and major system components. It provides a high-level structure around the processes and data flows defined in the logical architecture. The principal elements in the physical architecture are the subsystems and architecture flows that connect these subsystems and terminators into an overall structure. The physical architecture takes the processes identified in the logical architecture and assigns them to subsystems. In addition, the data flows (also from the logical architecture) are grouped together into architecture flows. These architecture flows and their communication requirements define the interfaces required between subsystems, which form the basis for much of the ongoing standards work in the ITS program.

**Service/Market Package:** The service packages, formerly known as market packages, provide an accessible, service-oriented perspective to the National ITS Architecture. They are tailored to fit, separately or in combination, real world transportation problems and needs. Service packages collect together one or more equipment packages that must work together to deliver a given ITS service and the architecture flows that connect them and other important external systems. In other words, they identify the pieces of the physical architecture that are required to implement a particular ITS service. Service packages are implemented through projects (or groups of projects, aka programs) and in transportation planning, are directly related to ITS strategies used to meet regional goals and objectives.



**Stakeholder:** A widely used term that notates a public agency, private organization or the traveling public with a vested interest, or a "stake" in one or more transportation elements within a regional ITS architecture or project ITS architecture.

**Subsystem:** The principle structural element of the physical architecture of the National ITS Architecture. Subsystems are individual pieces of the Intelligent Transportation System defined by the National ITS Architecture. Subsystems are grouped into four classes: Centers, Field, Vehicles, and Travelers. Example subsystems are the Traffic Management Subsystem, the Vehicle Subsystem, and the Roadway Subsystem. These correspond to the physical world: respectively traffic operations centers, automobiles, and roadside signal controllers. Due to this close correspondence between the physical world and the subsystems, the subsystem interfaces are prime candidates for standardization.

**Terminators:** Terminators define the boundary of an architecture. The National ITS Architecture terminators represent the people, systems, and general environment that interface to ITS. The interfaces between terminators and the subsystems and processes within the National ITS Architecture are defined, but no functional requirements are allocated to terminators. The logical architecture and physical architecture of the National ITS Architecture both contain the same set of terminators.

# Exhibit A

## A.1 Context Diagram Mark-Up Example

## A.2 Existing Data Flow Mark-Up Example

Local Agencies
Local Police Dispatch

Private Sector ISPs
Private Sector Traveler Information Services

Traveler Information Radio Network
Traveler Info. Radio Network Stations

FDOT District 5
FDOT District 5 VII Roadside Equipment

Counties and Cities
Municipality Event Permit Systems

County Emergency Management Age
County EOCs/Warning Points

County Public Safety Agencies
County Fire EMS/Rescue Dispatch

City of Daytona Beach
City of Daytona Beach Traffic Management Center

Local Agencies
Local Fire/EMS Dispatch

NOAA
National Weather Service

Florida Highway Patrol
FHP Regional Dispatch

FDOT
FDOT Statewide C2C Information Network

County School Districts
School District Transportation Dispatch

FDOT Turnpike Enterprise
FTE Operations Center (Turkey Lake)

Airport Authorities
Air Freight Terminals

Osceola County Engineering
Osceola County Traffic Operations Center

Local Venue Promoters
Local Venue Event Scheduling System

Local Media
Newspapers, Radio, Television Stations

Regional Public Safety Agencies
911 Emergency Call Centers

FDOT District 2
FDOT District 2 Infrastructure Monitoring Equipment

NOAA
National Hurricane Center Info. System

County Public Safety Agencies
County Sheriff Dispatch

Brevard County
Brevard County Traffic Operations Center

LYNX
Access LYNX Paratransit Systems

FDOT District 5
FDOT District 5 Public Information Office Systems

FDOT District 5
FDOT District 5 Field Equipment

FDOT District 5
FDOT District 5 Emergency Operations Center

FDOT D5/FHP
FDOT District 5 RTMC

FDOT District 5
FDOT District 5 Construction and Maintenance

LYNX
LYNX Operations Center

LYNX
LYNX Transit Vehicles

MetroPlan Orlando
MetroPlan Transportation Data Collection System

City of Ocala
City of Ocala Traffic Management Center

Canaveral Port Authority
Port Canaveral

LYNX
Virtual Travel Planning Center

VII Provider
VII Private Sector Partner

Osceola County Expressway Authority
OOCEA Field Equipment

SunGuide Partners/ISP Vendor Team
Central Florida Traveler Information System

Probe Information Providers
Probe Monitoring Systems

FDOT District 5
Central Florida TMC Information Network

Orange County
Orange County Traffic Management Center

Rail Operator
Rail Intermodal Terminals

Volusia County
Volusia County Traffic Management Center

LYNX
LYNX FlexBus Transit Central System

Orlando/Orange County Expressway
OOCEA Traffic Management Server

FDOT District 5
FDOT District 5 Infrastructure Monitoring Equipment

FDOT Central Planning Transportatio
FDOT Traffic Characteristics Inventory

FDOT
Other FDOT District TMCs

City of Orlando
City of Orlando Traffic Management Center

Seminole County
Seminole County Traffic Action Center (SEMTAC)

VOTRAN
VOTRAN Transit Dispatch

SUNTRAN
SUNTRAN Transit Dispatch Center

FDOT
Other FDOT District Infrastructure Monitoring Equipment

FDOT District 5
FDOT District 5 Office

Rail Operator
Rail Operations Centers

Private Maintenance Contractors
Private Maintenance and Construction Dispatch

Parking Facility Operators
Private/Public Parking Facility Operators

FDOT/LYNX
FDOT District 5 Road Ranger Service Patrol Dispatch

Private Weather Information Providers
Private/Public Weather Information Providers

SCAT - Space Coast Area Transit
SCAT Dispatch Center

Orlando/Orange County Expressway
OOCEA Construction and Maintenance Operations

FDOT
FDOT 511 System

Florida Department of Law Enforcem
FDLE Headquarters

Existing
Planned

# Regional Architecture

3/4/2014 8:22:03AM

## Florida Regional Architecture

***This Turbo Architecture database contains the ITS elements, interfaces and operational concepts for the State of Florida. This Florida Statewide ITS architecture is actually 8 regional ITS architectures harmonized into a single Turbo Architecture database. The regional ITS architectures are for FDOT District 1, FDOT District 2, FDOT District 3, FDOT Districts 4 and 6, FDOT District 5, FDOT District 7, FDOT Turnpike Enterprise, and a common Florida Statewide Services Architecture.***

| | | |
|---|---|---|
| **FlowName:** infrastructure monitoring sensor control | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Construction and Maintenance | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** roadway information system data | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Construction and Maintenance | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** infrastructure monitoring sensor data | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 Construction and Maintenance | |
| **FlowName:** roadway information system status | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 Construction and Maintenance | |
| **FlowName:** work zone warning status | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 Construction and Maintenance | |
| **FlowName:** work zone warning notification | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 Maintenance Vehicles | |
| **FlowName:** environmental conditions data | **Status:** ~~Existing~~ PI | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** freeway control status | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** reversible lane status | **Status:** ~~Existing~~ PI | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** roadway information system status | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** signal control status | **Status:** ~~Existing~~ PI | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** traffic flow | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** traffic images | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** vehicle probe data | **Status:** ~~Planned~~ Ex | **In Regional Architecture** |
| **Source:** FDOT District 5 Field Equipment | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** incident information | **Status:** ~~Planned~~ Ex | **In Regional Architecture** |
| **Source:** FDOT District 5 ~~Road Ranger Service Patrol Dispatch~~ RTMC | **Destination:** Central Florida Traveler Information System Reg 511 | |



+ Private Maint

# Florida Regional Architecture

| | | |
|---|---|---|
| **FlowName:** incident information | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 Construction and Maintenance | |
| **FlowName:** incident information | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 Public Information Office Systems | |
| **FlowName:** emergency dispatch requests | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 Road Ranger Service Patrol Vehicles | |
| **FlowName:** suggested route | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 Road Ranger Service Patrol Vehicles | |
| **FlowName:** incident information | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** incident response status | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** resource request | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FDOT District 5 RTMC | |
| **FlowName:** incident report | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FHP Regional Dispatch | |
| **FlowName:** incident response coordination | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Dispatch | **Destination:** FHP Regional Dispatch | |
| **FlowName:** emergency dispatch response | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Vehicles | **Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch | |
| **FlowName:** incident status | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 Road Ranger Service Patrol Vehicles | **Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch | |
| **FlowName:** event schedule_ud | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT 511 System | |
| **FlowName:** environmental sensors control | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** freeway control data | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** roadway information system data | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** signal control data | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** traffic sensor control | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** video surveillance control | **Status:** Existing | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Field Equipment | |
| **FlowName:** incident information | **Status:** Planned | **In Regional Architecture** |
| **Source:** FDOT District 5 RTMC | **Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch | |

# Florida Regional Architecture

**FlowName:** resource deployment status
**Source:** FDOT District 5 RTMC
**Status:** Planned
**Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch
**In Regional Architecture**

**FlowName:** road network conditions
**Source:** FDOT District 5 RTMC
**Status:** Planned
**Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch
**In Regional Architecture**

**FlowName:** traffic images
**Source:** FDOT District 5 RTMC
**Status:** Planned
**Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch
**In Regional Architecture**

**FlowName:** vehicle messages_ud
**Source:** FDOT District 5 RTMC
**Status:** Planned
**Destination:** FDOT District 5 VII Roadside Equipment
**In Regional Architecture**

**FlowName:** vehicle based information_ud
**Source:** FDOT District 5 VII Roadside Equipment
**Status:** Planned
**Destination:** FDOT District 5 RTMC
**In Regional Architecture**

**FlowName:** vehicle probe data
**Source:** FDOT District 5 VII Roadside Equipment
**Status:** Planned
**Destination:** FDOT District 5 RTMC
**In Regional Architecture**

**FlowName:** vehicle messages_ud
**Source:** FDOT District 5 VII Roadside Equipment
**Status:** Planned
**Destination:** Vehicles
**In Regional Architecture**

**FlowName:** incident response coordination
**Source:** FHP Regional Dispatch
**Status:** Planned
**Destination:** FDOT District 5 Road Ranger Service Patrol Dispatch
**In Regional Architecture**

**FlowName:** vehicle probe data
**Source:** Vehicles
**Status:** Planned
**Destination:** FDOT District 5 Field Equipment
**In Regional Architecture**

**FlowName:** environmental probe data
**Source:** Vehicles
**Status:** Planned
**Destination:** FDOT District 5 VII Roadside Equipment
**In Regional Architecture**

**FlowName:** vehicle based information_ud
**Source:** Vehicles
**Status:** Planned
**Destination:** FDOT District 5 VII Roadside Equipment
**In Regional Architecture**

**FlowName:** vehicle probe data
**Source:** Vehicles
**Status:** Planned
**Destination:** FDOT District 5 VII Roadside Equipment
**In Regional Architecture**

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