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# Introduction

This 2022 Update Report for the Florida District 7 Regional ITS Architecture (RITSA) identifies the revisions incorporated into the architecture. The purpose of this District 7 RITSA Periodic Update Report is to document revisions made to the District 7 RITSA to support Stakeholder input received through Architecture Change Requests as part of the Florida Intelligent Transportation Systems (ITS) Architecture Support and Maintenance Project.

The Florida ITS Architecture Support and Maintenance Project included the initial major update of the Statewide ITS Architecture (SITSA) and seven RITSAs. Following the major update phase, periodic updates are executed to maintain the architecture content. The FDOT Architecture Team coordinates with the FDOT Project Manager or designee and each applicable District Transportation Systems Management and Operations (TSM&O) Program Engineer or designee for the RITSAs.

# Description of Changes

Two maintenance log items were addressed in the update. Table 1 provides descriptions for each change request that was implemented in the architecture update. A log reference number is provided for each change to related it to the Architecture Maintenance Log that is provided in Appendix A. Each architecture change that is received is added to the maintenance log for tracking and disposition.

Information about stakeholders, elements, and services is provided to summarize the changes. Some architecture components such as interfaces, roles and responsibilities, functional requirements and standards are numerous and can be reviewed on the architecture website or in the Regional Architecture Development for Intelligent Transportation (RAD-IT) software tool to explore the details of each project.

Table 1 Project Updates

| **Change** | **Log Ref #** | **Actions Taken / Changes Implemented** |
| --- | --- | --- |
| District 7 RITSA Service TM09 Integrated Decision Support and Demand Management title revision | 84 | * Revised TM09 Integrated Decision Support and Demand Management (FDOT District 5 Integrated Corridor Management) service to "FDOT District 7 Integrated Corridor Management" in the service title and service description.
 |
| I-4 FRAME project revisions in FDOT District 7 RITSA | 95 | * Revised FDOT District 7 I-4 FRAME project
* Added Stakeholders to the project
	+ City of Plant City
	+ City of Tampa Smart Mobility Division
	+ Florida Highway Patrol
	+ Hillsborough Area Regional Transit Authority
	+ Local Agencies
	+ NOAA
	+ Private Weather Information Providers
	+ Rail Operator
	+ Regional Personnel (Emergency and Maintenance) stakeholder group
	+ Regional Public Safety Agencies
* Added Elements to the project
	+ 911 Emergency Call Centers
	+ City of Plant City TMC
	+ City of Plant City Field Equipment
	+ City of Plant City CAV Field Equipment
	+ City of Tampa TMC
	+ City of Tampa Field Equipment
	+ City of Tampa CAV Field Equipment
	+ County Fire EMS/Rescue Dispatch
	+ County Fire Vehicles
	+ County Sheriff Dispatch
	+ County Sheriff Vehicles
	+ FDOT District 7 Maintenance
	+ FHP Vehicles
	+ FHP Regional Dispatch
	+ Florida 511
	+ HART Transit Operations
	+ Hillsborough County Maintenance and Construction Management System
	+ Local Agency Traveler Information Systems
	+ Local Transit Operator Systems
	+ National Weather Service
	+ Personnel Device
	+ Private Weather Information Providers
* Revised Services
	+ Added “FDOT District 7” to I-4 FRAME service package title
	+ Added City of Plant City and City of Tampa elements to the following Services
		- SU01 Connected Vehicle System Monitoring and Management (FDOT District 7 I-4 FRAME)
		- SU04 Map Management (FDOT District 7 I-4 FRAME)
		- SU08 Security and Credentials Management (FDOT District 7 I-4 FRAME)
		- TI01 Broadcast Traveler Information (FDOT District 7 I-4 FRAME)
		- TI07 In-Vehicle Signage (FDOT District 7 I-4 FRAME)
		- TM01 Infrastructure-Based Traffic Surveillance (FDOT District 7 I-4 FRAME)
		- TM02 Vehicle-Based Traffic Surveillance (FDOT District 7 I-4 FRAME)
		- TM04 Connected Vehicle Traffic Signal System (FDOT District 7 I-4 FRAME)
		- VS03 Situational Awareness (FDOT District 7 I-4 FRAME)
		- VS12 Pedestrian and Cyclist Safety (FDOT District 7 I-4 FRAME)
		- VS13 Intersection Safety Warning and Collision Avoidance (FDOT District 7 I-4 FRAME)
	+ Added the following Service Packages
		- CVO06 Freight Signal Priority (FDOT District 7 I-4 FRAME)
		- MC06 Work Zone Management (FDOT District 7 I-4 FRAME)
		- PS07 Incident Scene Safety Monitoring (FDOT District 7 I-4 FRAME)
		- TI03 Dynamic Route Guidance (FDOT District 7 I-4 FRAME)
		- TM14 Advanced Railroad Grade Crossing (FDOT District 7 I-4 FRAME)
		- TM17 Speed Warning and Enforcement (FDOT District 7 I-4 FRAME)
		- TM25 Wrong Way Vehicle Detection and Warning (FDOT District 7 I-4 FRAME)
		- VS07 Road Weather Motorist Alert and Warning (FDOT District 7 I-4 FRAME)
		- VS08 Queue Warning (FDOT District 7 I-4 FRAME)
		- VS09 Reduced Speed Zone Warning / Lane Closure (FDOT District 7 I-4 FRAME)
	+ Added Florida 511, Local Agency Traveler Information System, FDOT District 7 CAV Field Equipment, and FDOT District 7 Field Equipment elements to VS12 Pedestrian and Cyclist Safety (FDOT District 7 I-4 FRAME)
	+ Added Florida 511 and Local Agency Traveler Information System elements to VS13 Intersection Safety Warning and Collision Avoidance (FDOT District 7 I-4 FRAME)
* Interfaces: See website or RAD-IT file
* Added Roles and Responsibilities
	+ Hillsborough Area Regional Transit Authority (HART)
	+ NOAA
	+ Private Weather Information Providers
	+ Regional Personnel (Emergency and Maintenance)
	+ Regional Public Safety Agencies
* Added Functional Requirements
	+ 911 Emergency Call Centers
	+ City of Plant City CAV Field Equipment
	+ City of Plant City Field Equipment
	+ City of Plant City TMC
	+ City of Tampa CAV Field Equipment
	+ City of Tampa City Field Equipment
	+ City of Tampa City TMC
	+ County Fire EMS/Rescue Dispatch
	+ County Fire Vehicles
	+ County Sheriff Dispatch
	+ County Sheriff Vehicles
	+ FDOT District 7 Maintenance
	+ FDOT District 7 Maintenance Vehicles
	+ FHP Regional Dispatch
	+ FHP Vehicles
	+ Florida 511
	+ HART Transit Operations
	+ Hillsborough County Maintenance and Construction Management System
	+ Local Agency Traveler Information Systems
	+ Local Transit Operator Systems
	+ Personnel Device
* Updated Standards References
* Updated Agreements
	+ I-4 FRAME Operations, Shared Use, and Data Usage Agreement between FDOT District 7 and Plant City
	+ I-4 FRAME Operations, Shared Use, and Data Usage Agreement between FDOT District 7 and Hillsborough County
	+ I-4 FRAME Operations, Shared Use, and Data Usage Agreement between FDOT District 7 and City of Tampa
	+ Traffic Signal Maintenance and Compensation Agreement (TSMCA) between FDOT District 7 and Plant City
	+ Traffic Signal Maintenance and Compensation Agreement (TSMCA) between FDOT District 7 and Hillsborough County
	+ Traffic Signal Maintenance and Compensation Agreement (TSMCA) between FDOT District 7 and City of Tampa
 |
| Draft Update Stakeholder Review Comments: FDOT District 7 Truck Parking Availability System project has been completed | N/A | * FDOT District 7 Truck Parking Availability System project architecture elements, information flows and services have been marked as existing and merged into the RITSA.
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| Draft Update Stakeholder Review Comments: FDOT District 7 Bus on Shoulder / I-275 Express project has been completed | N/A | * FDOT District 7 Bus on Shoulder / I-275 Express project architecture elements, information flows and services have been marked as existing and merged into the RITSA.
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| Draft Update Stakeholder Review Comments: Review all functional requirements for projects to verify their accuracy with the website representation. | N/A | * Reviewed all project functional requirements and revised as necessary.
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Appendix A: Architecture Maintenance Log (District 7 RITSA)

The maintenance log in Table 2 provides the District 7 RITSA maintenance items considerations for the update.

Table 2 Architecture Maintenance Log (District 7 RITSA)

| **#** | **Date** | **Architecture** | **Source** | **Contact** | **Change** | **Disposition** | **Recommend Maintenance** | **Incorporated** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 84 | 4/20/2021 | D7 RITSA | Email: James Landini 4/20/2021 | Steve Bahler / HNTB | Revise TM09 Integrated Decision Support and Demand Management (FDOT District 5 Integrated Corridor Management) service to "FDOT District 7 Integrated Corridor Management" in the service title, service description, services list for TM09, and in the D7 RITSA RAD-IT database.  | Revise service title. | Yes | Yes |
| 95 | 5/13/2021 | D7 RITSA | Change Request Form: FDOT (Raj Ponnaluri email 5/13/2021) | Ronald Chin / FDOT | Add I-4 FRAME to the FDOT D7 Regional ITS Architecture (RITSA). Service packages requested to be included. | District 7 I-4 FRAME exists in D7 RITSA. Incorporate revisions to project. | Yes | Yes |