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|  | Florida ITS Architecture Support and Maintenance ProjectD4-6 RITSA Update Report(ARC-IT Version 9.3) |

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Table of Contents

[1.0 Introduction 4](#_Toc188368503)

[2.0 Description of Changes 4](#_Toc188368504)

List of Tables

[Table 1. Architecture Updates 4](#_Toc188368496)

[Table 2. Architecture Maintenance Log (D4-6 RITSA) 8](#_Toc188368497)

#

# Introduction

This Architecture Update Report for the Florida D4-6 Regional Intelligent Transportation Systems (ITS) Architecture (D4-6 RITSA) identifies the revisions incorporated into the architecture. Revisions made to the D4-6 RITSA are documented in this report to support Stakeholder input received through Architecture Change Requests as part of the Florida ITS Architecture Support and Maintenance Project.

The Florida ITS Architecture Support and Maintenance Project included the initial major update of the Statewide Regional ITS Architecture and seven Regional ITS Architectures. 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

Six 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 relate 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. Architecture Updates

| **Change** | **Log Ref #** | **Actions Taken / Changes Implemented** |
| --- | --- | --- |
| Stakeholder and Inventory revisions.  | 188 | Added stakeholders:* Broward County Public Works Department.
	+ Assigned elements:
	+ Broward County CAV Field Equipment.
	+ Broward County Field Equipment.
	+ Broward County TMC.
* Broward County Transportation Department.
	+ Assigned elements:
	+ Broward County Intermodal Center.
* Removed Broward County Public Works and Transportation Administration stakeholder.
 |
| Remove duplicate services from website for Broward County Transit inventory elements. | 188 | * Removed duplicate inventory elements.
 |
| Incident Response Vehicle Pilot Project added | 192 | * New Project created: FDOT District 6 Incident Response Vehicle Pilot Project.
* Added Stakeholders.
* Added Inventory elements.
* Added Service package.
	+ VS04 Special Vehicle Alert (Incident Response Vehicle Pilot Project).
* Added Interfaces.
* Added Roles and Responsibilities.
* Added Functional Objects and Functional Requirements.
* Added Standards.
 |
| FDOT District 6 Keys COAST projects status updated. | 193 | * Projects status changed from “Planned” to “Existing”.
* The following Keys COAST related projects merged into regional architecture and removed from project list.
	+ FDOT District 6 Keys COAST (ATSPM)
	+ FDOT District 6 Keys COAST (Drawbridge)
	+ FDOT District 6 Keys COAST (Pedestrian / Cyclist Safety)
	+ FDOT District 6 Keys COAST (Signal Priority / Preemption)
	+ FDOT District 6 Keys COAST (Vehicle to Vehicle Safety)
	+ FDOT District 6 Keys COAST (Weigh Station)
 |
| FDOT District 6 Smart Work Zone Management for Okeechobee Road project added. | 194 | * New Project created: FDOT District 6 Smart Work Zone Management for Okeechobee Road.
* Added Stakeholders.
* Added Inventory Elements.
	+ Vehicle Operators.
* Added Service package.
	+ MC07 Work Zone Safety Monitoring (FDOT District 6 SWZ Management for Okeechobee Road).
* Added Interfaces.
* Added Roles and Responsibilities.
* Added Functional Objects and Functional Requirements.
* Added Standards.
 |
| FDOT District 6 Warning Gate System Status Notification project added. | 195 | * New Project created: FDOT District 6 Warning Gate System Status Notification
* Added Stakeholders.
* Added Inventory Elements.
	+ FDOT District 6 95 Express Ramp Warning Gates
	+ Warning Gate Alert System
* Added Service package
	+ TI02 Personalized Traveler Information (FDOT District 6 Warning Gate System Status Notification)
	+ TI07 In-Vehicle Signage (FDOT District 6 Warning Gate System Status Notification)
	+ TM19 Roadway Closure Management (Warning Gate System Status Notification)
* Added Interfaces.
* Added Roles and Responsibilities.
* Added Functional Objects and Functional Requirements.
* Added Standards.
 |
| Palm Beach County Transit Signal Priority Project updated.  | 196 | * Renamed Project to “Palm Beach County Transit Signal Priority / Emergency Vehicle Preemption”
* Added Stakeholder.
	+ Palm Beach County Fire Rescue.
* Added Inventory Elements.
	+ PBCFR Emergency Vehicles.
* Added Service Packages
	+ PS03 Emergency Vehicle Preemption (Palm Beach County TSP/EVP)
	+ PT09 Transit Signal Priority (Palm Beach County TSP/EVP)
* Added Roles and Responsibilities.
* Added Functional Objects and Functional Requirements.
* Added Interfaces.
* Added Standards.
 |

Appendix A: Architecture Maintenance Log (D4-6 RITSA)

The maintenance log in Table 2 provides the D4-6 RITSA maintenance items considerations for the update.

Table 2. Architecture Maintenance Log (D4-6 RITSA)

| **#** | **Date** | **Source** | **Contact** | **Change** | **Disposition** | **Recommend Maintenance** | **Incorporated** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 188 | 7/30/2024 | Change Request Form: Broward County Transit | Lina Kulikowski / Broward County Transit | Stakeholder and Inventory revision requests: Stakeholders: 1. Broward County now has a Public Works Department and a Transportation Department. Please contact Broward County Public Works Department if you have not received change requests from them.2. Both the Broward County Transit and Broward County Fleet are now under the Department of Transportation. However, we will keep Broward County Transit as a stakeholder for now.**Inventory Elements**:1. Broward County Transit Communications Center:a. Stakeholder should be Broward County Transit and not Broward County Public Works and Transportation Administration. b. National ITS Architecture Services associated with Broward County Transit Communications Center:i. Remove duplicates2. BCT Bus Maintenance Centersa. National ITS Architecture Services associated with BCT Bus Maintenance Centers:i. Remove duplicates3. Broward County Transit Systems:a. National ITS Architecture Services associated with BCT Transit Systems:i. Remove duplicates 4. Broward County Rail Maintenance Center:a. National ITS Architecture Services associated with Broward County Rail Maintenance Center:i. Remove duplicates5. Broward County Rail Operations:a. National ITS Architecture Services associated with Broward County Rail Operations:i. Remove duplicates6. Broward County Transit / Rail Operational Control Centera. National ITS Architecture Services associated with Broward County Transit / Rail Operational Control Center:i. Remove duplicates | Revise stakeholders and inventory as requested | Yes | Yes |
| 192 | 7/26/2024 | Change Request Form: FDOT District 6 | Carlos Dardes & Sergio Bravo / FDOT District 6 | New Project - Incident Response Vehicle Pilot Project: Equipping the FDOT District 6 emergency responders fleet with this technology enhanced incident management operations by providing real-time alerts to navigation systems. This real-time notification system also reduces the risk of secondary accidents, and ensures safer operations for responders. | Revise architecture as requested.  | Yes | Yes |
| 193 | 7/26/2024 | Change Request Form: FDOT District 6 | Sergio Bravo / FDOT District 6 | Project status change - FDOT District 6 Keys COAST: FDOT District 6 Keys COAST project has received Final Acceptance. The following project architectures should be removed from the ITS Project section. Additionally, the associated service packages interconnects and information flows should be relabeled from "Planned" to "Existing".* FDOT District 6 Keys COAST (ATSPM)
* FDOT District 6 Keys COAST (Drawbridge)
* FDOT District 6 Keys COAST (Pedestrian / Cyclist Safety)
* FDOT District 6 Keys COAST (Signal Priority / Preemption)
* FDOT District 6 Keys COAST (Vehicle to Vehicle Safety)
* FDOT District 6 Keys COAST (Weigh Station)
 | Revise architecture as requested. Change status, merge projects, remove projects | Yes | Yes |
| 194 | 7/26/2024 | Change Request Form: FDOT District 6 | Sergio Bravo / FDOT District 6 | New Project – SWZ Management for Okeechobee Road | Revise architecture as requested | Yes | Yes |
| 195 | 7/26/2024 | Change Request Form: FDOT District 6 | Sergio Bravo / FDOT District 6 | New Project - Warning Gate System Status Notification: 95 Express Lanes Warning Gate System within FDOT District 6 is equipped with wireless network devices that automatically dispatch digital warning gate status alerts to commonly used third-party navigation systems.Equipping the FDOT District 6 Warning Gates with this technology enhances the District 6 Express Lanes facility operation efforts by providing realtime alerts to navigation systems. This real-time notification empower drivers to make more informed decisions and improve safety for all users. | Revise architecture as requested | Yes | Yes |
| 196 | 7/24/2024 | Change Request Form: Palm Beach County | Hossam Abdel All / Palm Beach County | New Project - Palm Beach County Transit Signal Priority/Emergency Vehicle Preemption: Project allows for PT09 Transit Signal Priority as well as PS03 Emergency Vehicle Preemption. Enhancing bus service reliability as well as improved first responder safety and efficiency in responding to events. | Create new project. | Yes | Yes |