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# Introduction

This Update Report for the Florida District 4/6 Regional ITS Architecture (RITSA) identifies the revisions incorporated into the architecture. The purpose of this District 4/6 RITSA Update Report is to document revisions made to the District 4/6 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, one of which included several separate 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** |
| --- | --- | --- |
| Element: Broward County Transit (BCT) Fixed Route Vehicles. BCT Fixed Route Vehicles Interconnect Diagram. Remove Easy Card and Smart Card from the diagram. The line between 'BCT Fixed Route Vehicles' and 'Private Travelers Personal Computing Devices' is now existing and not planned. | 90 | There appears to have been an error in the generation of the website for the District 4/6 RITSA Major Update Final posted on December 16, 2020. The Final District 4/6 RITSA Major Update architecture database did not have an interface between the BCT Fixed Route Vehicles and the Easy Card or Smart Card elements. Those interfaces, which were included in the Draft Major Update, were specifically removed for the Final Major Update per stakeholder comment. Those interfaces no longer exist on the architecture database and will be reflected properly on the Draft District 4/6 RITSA website generated for this maintenance update. Revised the status of information flows on the 'BCT Fixed Route Vehicles' and 'Private Travelers Personal Computing Devices' interface to existing.  |
| Element: Broward County TOPS Systems. Change description to: Provides transportation services as mandated by the American’s with Disabilities Act (ADA) and the Florida Commission for the Transportation Disadvantaged (TD) in Broward County. Operates a paratransit service for the purpose of delivering ADA transportation services to individuals who, due to a functional disability (physical, cognitive, other), are unable to access or use the public transportation system, or meets TD eligibility on the basis of age, disability or income. Broward County's paratransit system is called TOPS, for the many Transportation Options available. | 90 | Broward County TOPS Systems element description updated.  |
| Element: Broward County TOPS Systems Interconnect Diagram. The link between 'Broward County TOPS Systems' and 'BCT Fixed Route Vehicles' should be Planned and not Existing. | 90 | There appears to have been an error in the generation of the website for the District 4/6 RITSA Major Update Final posted on December 16, 2020. The Final District 4/6 RITSA Major Update architecture database did not have an interface between the BCT Fixed Route Vehicles and the Broward County TOPS Systems elements. That interface, which was included in the Draft Major Update, was specifically removed for the Final Major Update per stakeholder comment. This interface no longer exists and will be reflected properly on the Draft District 4/6 RITSA website generated for this maintenance update.  |
| Project: Broward County TOPS Online Reservations. This existing project was in the architecture, not sure why it was removed.Restore the project. | 90 | The Broward County TOPS Online Reservations project has been completed and is operational. When projects are completed, their interfaces are changed from planned to existing, the project is merged into the regional architecture, and the project is removed from the RITSA project list. The Broward County TOPS Online Reservations project is now part of the RITSA with existing interfaces and will not be displayed as a project. |
| Project: Regional Fare Interoperability. Change the interconnect diagram according to the Regional Fare Interoperability Diagram.  | 90 | Revised project to be consistent with the Regional Fare Interoperability Diagram.  |
| Roles and Responsibilities: Check hyperlinks. | 90 | There was an error in the web generation logic which has been corrected. The roles and responsibility areas where these hyperlink errors were encountered are not intended to be linked to further information as the roles and responsibilities are listed under each area. The RITSA web pages have been corrected. |
| Roles and Responsibilities: Check Broward County Transit hyperlinks. Check items listed under each category.  | 90 | Broward County Transit roles and responsibilities were checked against the original BCT roles and responsibilities and adjusted as requested. |
| Add a new project to the FDOT D4 Regional Architecture. Add project: SW 10th Street Connector Transportation Systems Management and Operations (TSM&O) Project. The project is not currently included in the District 4/6 RITSA. | 121 | * Create Broward County SW 10th Street Connector TSM&O Project.
* Selected Stakeholders based on Services requested:
* Broward County Public Works and Transportation Administration
* Broward County Transit
* FDOT CO
* FDOT D4/Broward County Traffic Engineering Division
* FDOT District 4
* FTE
* Local Agencies
* Private Commercial Vehicle and Fleet Operations
* Travelers
* Selected Inventory Elements based on Services requested:
* BCT Fixed Route Vehicles
* Broward County CAV Field Equipment
* Broward County Field Equipment
* Broward County TMC
* Broward County Transit Communications Center
* CAV-ITS Map Update System
* Commercial Vehicle
* FDOT District 4 Arterial Management System
* FDOT District 4 Maintenance Vehicles
* FDOT District 4 Road Ranger Service Patrol Vehicles
* FDOT SCMS
* FTE Operations Center (Pompano)
* Local Police Vehicles
* Private Travelers Personal Computing Devices
* Vehicles
* Added Service instances with the relevant elements selected:
* MC06 Work Zone Management (BC SW 10th Street Smart Work Zone System)
* MC07 Work Zone Safety Monitoring (BC SW 10th Street Smart Work Zone System)
* SU01 Connected Vehicle System Monitoring and Management (BC SW 10th Street Smart Work Zone System)
* SU04 Map Management (BC SW 10th Street Smart Work Zone System)
* TM01 Infrastructure-Based Traffic Surveillance (BC SW 10th Street Smart Work Zone System)
* TM07 Regional Traffic Management (BC SW 10th Street Smart Work Zone System)
* TM17 Speed Warning and Enforcement (BC SW 10th Street Smart Work Zone System)
* VS08 Queue Warning (BC SW 10th Street Smart Work Zone System)
* Added Roles and Responsibilities
* Added Functional Requirements
* Updated Standards references.
 |
| District 4/6 RITSA Draft Update Stakeholder Review Comments: Draft Website, Stakeholder tab - There are many duplicates under Roles and Responsibilities. Some hyperlinks are not working. Please refer to the attachment for additional details. | N/A | Duplicate Roles and Responsibilities (R&R) and the R&R Area links were corrected in the web generator logic. Specific R&Rs identified in the additional details associated with Broward County Transit were removed. |

Appendix A: Architecture Maintenance Log (District 4/6 RITSA)

The maintenance log in Table 2 provides the District 4/6 RITSA maintenance items considerations for the update.

Table 2 Architecture Maintenance Log (District 4/6 RITSA)

| **#** | **Date** | **Architecture** | **Source** | **Contact** | **Change** | **Disposition** | **Recommend Maintenance** | **Incorporated** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 90 | 5/14/2021 | D4/6 RITSA | Change Request Form: Broward County Transit | Lina Kulikowski / Broward County Transit | Multiple corrections identified regarding BCT:* Resolve BCT Fixed Route Vehicles interconnect diagram (remove interfaces with Easy Card and Smart Card)
* Interface between BCT Fixed Route Vehicles and Private Travelers Personal Computing Devices change from planned to existing
* Revise BC TOPS Systems description per change form
* Revise BC TOPS interconnect diagram per change form
* Restore Broward County TOPS Online Reservations.
* Investigate Regional Fare Interoperability project validity
* Roles and Responsibilities links errors; category issues
* Review/edit BCT R&Rs with BCT
 | Implement changes requested. | Yes | Yes |
| 121 | 2/28/2022 | D4/6 RITSA | Change Request Form: FDOT District 4 | Vanita Saini / FDOT District 4, Alexandra Lopez / FDOT District 4 | Add a new project to the FDOT D4 Regional Architecture. Add project: SW 10th Street Connector Transportation Systems Management and Operations (TSM&O) Project. The project is not currently included in the District 4/6 RITSA. | Add project. | Yes | Yes |