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| August 2020 |

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|  | Florida ITS Architecture Support and Maintenance Project  Final FTE Major Update Report  Version 1.1 |

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Document Version Control

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| --- | --- | --- |
| Author / Action | Submittal Date | Version No. |
| Brummond / Draft Document | April 7, 2020 | 1.0 |
| Cliff Heise / QA/QC Review | April 7, 2020 | 1.0 |
| Brummond / Final Document | August 18, 2020 | 1.1 |
| Cliff Heise / QA/QC Review | August 20, 2020 | 1.1 |
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# Introduction

This Major Update Report for Florida’s Turnpike Enterprise (FTE) Regional ITS Architecture (RITSA) identifies the revisions incorporated into the architecture. The revisions reflect the inputs of stakeholders as part of the Florida Intelligent Transportation Systems (ITS) Architecture Support and Maintenance Project. Information was gathered from Stakeholders through an Initial Review Report and Meeting conducted on November 6, 2019, and a Stakeholder Workshop conducted on December 3, 2019. Additional information was gathered from Stakeholders based on the review of the Draft version of this FTE Major Update Report.

The revisions to the FTE RITSA include project implementation and plans, transportation and technology initiatives being pursued by stakeholders, and opportunities for architecture streamlining to improve the FTE RITSA’s application and maintenance.

The purpose of this FTE RITSA Major Update Report is to document revisions made to the FTE RITSA to support Stakeholder review and to document the revisions made.

The Florida ITS Architecture Support and Maintenance Project includes the update of the Statewide ITS Architecture (SITSA) and seven RITSAs. The same review, information gathering, workshops, and architecture update processes are being used for each of the architectures. 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. The FDOT Architecture Team is documenting findings and recommended actions separately for the SITSA and the seven RITSAs. The outcome of the FTE RITSA Stakeholder Workshop, along with the outcome from the FTE RITSA Initial Review Meeting, resulted in the changes to the FTE RITSA described in this document as part of its major update.

# Description of Changes

This section of the report captures the overall architecture changes based on analysis of the SITSA Initial Review Meeting, the Stakeholder Workshop, and subsequent comments from FTE. The changes are grouped by architecture component. Additional changes were identified from further investigation and discussion with stakeholders during the update process as some of the information received early in this process was superseded by later stakeholder input. RITSA update actions taken are shown in **bold text**.

Several plans and initiatives were reviewed with respect to the FTE RITSA Update. In particular,

* STAMP Action Plan
* ITS Ten Year Cost Feasible Plan
* FDOT CAV Business Plan (2019)
* Florida Transportation Plan (FTP)
* Strategic Intermodal System (SIS) Policy Plan
* Traffic Incident Management (TIM) Plan (2019)
* Transportation Technology Strategic Plan
* Strategic Highway Safety Plan (SHSP)
* Planned CVO Strategic Plan

These documents provide high-level visions and plans and, while they did not provide detail to inform the FTE RITSA Update, they did provide scoping and vision for the FTE RITSA.

## Stakeholders

The stakeholder changes include name revisions, consolidation of stakeholders, and stakeholder removal to simplify and extend the FTE RITSA.

The stakeholder inputs gathered from the Initial Review Meeting and extensive input from FTE before the Stakeholder Workshop, as well as other inputs gathered from numerous stakeholder interactions are provided in Table 1. In the table, the stakeholder is identified, the issue or recommended disposition is described, and the actions taken by the FDOT Architecture Team are described.

Table 1 Stakeholder Revisions

| **Stakeholder Name** | **Stakeholder Description** | **Recommendation &**  **Action Taken** |
| --- | --- | --- |
| 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. | FTE to check with Roadway Maintenance to see if we still use CHEMTREC (Eric Gordin)  **Removed stakeholder.** |
| City of Lakeland Traffic Operations | City of Lakeland Traffic Operations Personnel. | City of Lakeland is planning to use FTE’s camera interface.  **Added new stakeholder.** |
| Collection Agency | Agencies responsible for collecting unpaid tolls, parking fees, etc. | **Added new stakeholder based on FTE input.** |
| County Emergency Management Agencies | Represents the generic county agencies and departments that coordinate emergency response during major disasters or incidents. | Remove, combine with Counties and Cities (Eric Gordin)  **Retained stakeholder for County EOCs/Warning Points element.** |
| County Public Safety Agencies | Represents the generic county public safety agencies, including EMS, fire departments, and sheriff's departments. | Combine with Counties and Cities?  (Eric Gordin)  **Retained stakeholder group for County Fire EMS/Rescue Dispatch, County Fire EMS/Rescue Vehicles, County Sheriff Dispatch and County Sheriff Vehicles elements.** |
| E-ZPass IAG | The E-ZPass IAG (Interagency Group) is comprised of toll agencies/companies partnering in at least 17 states. | **Added new stakeholder based on FTE input.** |
| 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. | Does FDOT OIS need to be separate from FDOT?  (Eric Gordin)  OIS is now “Office of Transportation Technology” (Stephen Bahler)  **Retained stakeholder, changed name and description. Stakeholder for FDOT Statewide OIS (changed to OTT) Enterprise Database.** |
| FDOT District 1 | Represents Florida Department of Transportation District 1, Southwest Florida, which includes Charlotte, Collier, De Soto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota counties. | List FDOT Districts individually, or as a group (see Other FDOT Districts below).  Represent each district uniquely in the architecture or just use “Other FDOT Districts”? (Eric Gordin)  Identifying individual FDOT Districts provides for unique interface with a specific district if necessary. The individual districts are represented by an FDOT Districts group.  **Retained FDOT Districts as individual stakeholders. The Districts are referenced under the collective “Other FDOT Districts” for the “FDOT District TMCs” interfacing with FL511 and included in the FTE and FDOT Video Sharing Project. In order to support SELS and the interfaces with FTE Operations Centers at Turkey Lake and Pompano, the individual FDOT Districts were retained as stakeholders and added the corresponding TMC as elements for each District.** |
| Financial Institutions | Financial and banking institutions that play a role in electronic payment financial transactions. | How does this play into ITS? (Eric Gordin)  These would be the credit card companies that customers use and have their CC number on file for toll charges. (Chris Bausher)  Financial Institutions and their associated element are on the boundary of the architecture. It represents a non-transportation element that interfaces with back office tolling system for financial transactions. The level that is necessary to illustrate in the RITSA will be examined during the RITSA update.  **Retained stakeholder.** |
| Florida County Tax Collection Offices | Florida County Tax Collection Offices are responsible for instituting a vehicle registration hold upon notification of unpaid tolls, parking fees, etc. | **Added new stakeholder based on FTE input.** |
| Florida Department of Law Enforcement | Florida Department responsible for initiating Amber Alert messages. | Also responsible for “Silver” and “Blue” alerts. (Major Gaston)  **Revised stakeholder description.** |
| Florida Toll Authorities | Represents county, local, and expressway toll authorities, including CFX, MDX, Tampa-Hillsborough, etc... | CFX was listed separately – keep a generic name like “Florida Toll Authorities” or keep them separate/individual (CFX, MDX, THEA)? (Eric Gordin)  Suggest that this be broken into three parts. 1. CFX and Leeway, 2. THEA and MDX, 3. Monroe Co, Escambia Co., Town of Bay Harbor Islands, Leon Co/Orchard Pond, Miami-Dade County. FTE connects to each of them differently and have different functional processes.  Add Non FL Toll Partners as a data element. NC and GA. (Chris Bausher)  This identifies CFX as a stakeholder. CFX should also be in this group. There is no harm in identifying separately and grouped.  **Revised stakeholder to be a group made up of Lee County DOT, CFX, SRTA, NCTA, E-ZPass IAG, MDX and THEA. Added Toll Pass Agencies and Toll Transaction Agencies group descriptions for smaller agencies and a representation of Other Turnpike Authorities also included in this group.** |
| Lee County DOT | Represents the agencies and departments of Lee County, including public works departments, and permit offices. | Necessary, or just include Lee County with Local Agencies? or County Public Safety Agencies? or Counties and Cities? (Eric Gordin)  As a stakeholder, should be defined and should be part of any group that shares common interfaces.  **Retained stakeholder for LeeWay Customer Service Center.** |
| Local Agencies | Represents local government agencies and departments, including local fire/rescue departments, law enforcement providers, and emergency management agencies. | Combine with Counties and Cities? (Eric Gordin)  **Added Public Safety to name, i.e., Local Public Safety Agencies.** |
| MDX | Miami-Dade Expressway Authority (MDX) collects revenues on the five MDX expressways. | **Added new stakeholder based on FTE input.** |
| NCTA | The North Carolina Turnpike Authority (NCTA) operates tolled transportation facilities within North Carolina using the NC QuickPass toll transponder. | **Added new stakeholder based on FTE input.** |
| Osceola County Expressway Authority | Planned new Expressway Authority for Osceola County. | Remove. This agency does not exist.  **Removed stakeholder.** |
| Other FDOT Districts | Represents a stakeholder group consisting of other FDOT Districts. | Combine all of the Districts into a single entity, like “Other FDOT Districts”? (Eric Gordin)  **Retained FDOT Districts group. Removed “Other” from name and description, given it is a common way to refer to the 7 districts collectively.** |
| Parking Operators | Operators of parking lots that use the Florida Statewide Tolling CCSS back office to process parking fees. | **Added new stakeholder based on FTE input.** |
| Private Sector ISPs | Private traveler and transportation information service providers, including Mobility Technologies, SmartRoute Systems, Shadow Traffic, and Metro Traffic. | SmartRoute Systems doesn’t have a presence in Florida anymore. (Eric Gordin)  Per discussion on SITSA, make this generic, remove specific ISP names. (Stephen Bahler)  **Removed references to specific ISP names from description. Removed references from the Private Sector Traveler Information Services inventory element.** |
| SRTA | The Georgia State Road and Tollway Authority (SRTA) operates tolled transportation facilities within Georgia using the PeachPass toll transponder. | **Added new stakeholder based on FTE input.** |
| State of Florida | Represents the State of Florida | Needed? Very high-level.  Combine with FDOT? (Eric Gordin)  **Retained stakeholder in support of the Florida Statewide Tolling CCSS inventory element, which is statewide.** |
| THEA | Tampa Hillsborough Expressway Authority (THEA) owns, maintains and operates four facilities within Hillsborough County: the Selmon Expressway, the Brandon Parkway, Meridian Avenue, and the Selmon Greenway. | **Added new stakeholder based on FTE input.** |
| Toll Pass Agencies | Small agencies (e.g., Bay Harbor, Miami-Dade County, Escambia County and Monroe County) that allow customers to buy a toll pass (usually annually). | **Added new stakeholder based on FTE input.** |
| Toll Transaction Agencies | Small agencies (e.g., Bay Harbor, Miami-Dade County, Escambia County, Monroe County and Leon County/Orchard Pond, Mid-Bay Bridge and Garcon Point Bridge, Alligator Alley, Sunshine Skyway Bridge and various other bridges) that own and operate their own roadside toll equipment and rely on the FTE SunPass Toll Collection System to process their toll transactions. | **Added new stakeholder based on FTE input. Added Sunshine Skyway Bridge in description since the south end of the Skyway Bridge is managed by District 7 but is physically in District 1. Changed name to Independent Toll Transaction Agencies.** |

## Inventory Elements

The inventory element changes include name revisions, new elements, and element removal for the FTE Architecture.

The stakeholder inputs gathered from the Initial Review Meeting, as well as other inputs gathered from numerous stakeholder interactions before the Stakeholder Workshop are provided in Table 2. In the table, the elements are identified and the actions taken by the FDOT Architecture Team are described. There were changes made to the RITSA during review of the FTE system interactions which resulted in clarification of the FTE back office tolling systems and interfaces.

Table 2 Inventory Element Revisions

| **Element Name** | **Element Description** | **Element Status** | **Associated Physical Objects** | **Stakeholder** | **Recommendation & Action Taken** |
| --- | --- | --- | --- | --- | --- |
| CFX Toll Plazas | Central Florida Expressway Authority points of toll collection. | Existing | ITS Roadway Equipment, ITS Roadway Payment Equipment | CFX | CFX tolling is backed up with video image for enforcement.  **Added CFX Toll Plazas inventory element, added video surveillance control and traffic images as well as payment instructions and payment transactions flows between CFX Toll Plazas and E-PASS Service Center.** |
| 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 | Fleet and Freight Management Center | CHEMTREC | Is this a state warning point? Review website to see if this applies to FTE:  <https://www.chemtrec.com/about-chemtrec> (Eric Gordin)  CHEMTREC provides information before and during a hazmat event, but does not appear to have a role in the actual cleanup in the field. (Stephen Bahler)  **Removed element.** |
| **City of Lakeland ATMS** | **Traffic Management Center for the City of Lakeland.** | **Existing** | **Traffic Management Center** | **City of Lakeland Traffic Operations** | City of Lakeland plans to use FTE’s camera interface.  **Added element with traffic images interface with FTE Turkey Lake and Pompano Operations Centers.** |
| **City of Lakeland Field Equipment** | **Field equipment including cameras in the City of Lakeland.** | **Existing** | **ITS Roadway Equipment** | **City of Lakeland Traffic Operations** | City of Lakeland plans to use FTE’s camera interface.  **Added element with traffic images interface with FTE Turkey Lake and Pompano Operations Centers.** |
| Connected Vehicles | Represents connected vehicles with the ability to communicate with other vehicles or roadside equipment. | Planned | Vehicle OBE | Travelers | Placeholder, this may expand with addition of Connected Vehicle services.  **Removed Connected Vehicles inventory element.** |
| County Court System | Generic element representing the various court systems used to seek restitution from toll violators. | Existing | Enforcement Center | Counties and Cities | Is this necessary? (Eric Gordin) Yes (Chris Bausher)  **Retained element.** |
| E-PASS Service Center | The CFX Customer Service Center that distributes E–PASS tags and provide the back room functions. | Existing | Payment Administration Center, Traffic Management Center |  | CFX works through the District 5 system to coordinate and get incident and traffic information.  **Added E-PASS Service Center interface with FDOT District 5 RTMC for road network conditions and incident information flows.** |
| FDOT District 1 SWIFT Center | The Southwest Inter–agency Facilities for Transportation (SWIFT) Center, located in Fort Myers, is FDOT's primary TMC in District 1. The SWIFT Center controls CCTV, DMS, HAR, and RWIS in District 1, primarily along I–75. In addition, the SWIFT Center serves as a backup for the I–75 Satellite Center in Manatee County and operates the I–75 Satellite Center systems on nights and weekends. | Existing | Traffic Management Center, Transportation Information Center | FDOT District 1 | **Added element to define interfaces with FTE systems.** |
| FDOT District 2 RTMC | This element represents the Regional Transportation Management Center (RTMC) for FDOT District 2. | Existing | Traffic Management Center, Transportation Information Center | FDOT District 2 | District 2 and FTE interface needs to be implemented; it should be shown as planned for now.  **Added element to define interfaces with FTE systems.** |
| FDOT District 4 FMS | The FDOT District 4 Freeway Management System (FMS) is operated at the FDOT District 4 RTMC. | Existing | Traffic Management Center, Transportation Information Center | FDOT District 4 | **Added element to define interfaces with FTE systems. Changed name to FDOT District 4 RTMC.** |
| 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 | Traffic Management Center, Transportation Information Center | FDOT District 5 | District 5 will be getting traffic data from FTE devices at the ramps to manage District express lane ramps to FTE facilities.  District 5 has view only access to FTE Closed Circuit Television (CCTV) feeds.  **Added element to define interfaces with FTE systems. Added traffic metering status information flows. Added bidirectional traffic images information flows between FTE and FDOT District 5 RTMC.** |
| FDOT District 6 SunGuide Transportation Management Center | The FDOT District 6 SunGuide Transportation Management Center operates the SunGuide system along I–95 in Miami–Dade County. | Existing | Traffic Management Center, Transportation Information Center | FDOT District 6 | **Added element to define interfaces with FTE systems.** |
| FDOT District 7 Tampa Bay SunGuide Center | The FDOT District 7 Tampa Bay SunGuide Center provides regional traffic management for interstates, expressways, and other limited access facilities in District 7. It also provides a central data collection and repository function (the "Regional Planning Subsystem") for the District 7. It is co–located with FDOT D7, FDOT EOC, and FHP Dispatch. | Existing | Traffic Management Center, Transportation Information Center | FDOT District 7 | **Added element to define interfaces with FTE systems.** |
| FDOT SELS | FDOT Statewide Express Lane Software (SELS) has a link to the Turnpike tolling providing a rate table that the District uses to match tolls for the need. For SunGuide to SELS to FTE tolling: FTE interfaces directly with toll gantries (Districts 4, 6, and 2 are active; Districts 5 and 7 are under development; District 1 is a future implementation). | Existing | Payment Administration Center | FDOT | New element, do we model this individually or is this part of the FDOT TMCs?  **Added as a new element, connected to FDOT TMCs. SELS supports dynamic tolling capabilities discussed at the Stakeholder Workshop and exchanges toll information with the FTE SunPass Toll Collection System.** |
| FDLE Headquarters | Represents the Florida Department of Law Enforcement Office in Tallahassee that originates Amber Alerts. | Existing | Emergency Management Center | Florida Department of Law Enforcement | Element name should reflect a system.  **Revised element name to add Wide Area Alert System. Added Silver and Blue Alerts to description.** |
| FHP Jacksonville Regional Communications Center | The Jacksonville Regional Communications Center (JRCC) dispatches patrol vehicles covering SR-23 in Duval and Clay Counties | Existing | Emergency Management Center | FHP | Major Gaston inputs.  **Added as new element. Changed Element name to FHP JRCC, included in PS01 and PS02 service packages, modeled similar architecture as FHP TLRCC with regard to interfaces with FTE Turkey Lake and Pompano TMCs and FHP Vehicles.** |
| FHP Miami Regional Communications Center | The Miami Regional Communications Center (MRCC) dispatches FHP Troop K vehicles, which patrol the FTE Highway System in Miami-Dade County | Existing | Emergency Management Center | FHP | Major Gaston inputs.  **Added as new element. Changed Element name to FHP MRCC, included in PS01 and PS02 service packages, modeled similar architecture as FHP TLRCC with regard to interfaces with FTE Turkey Lake and Pompano TMCs and FHP Vehicles.** |
| FHP Tampa Bay Regional Communications Center | The Tampa Bay Regional Communications Center (TBRCC) dispatches FHP Troop K vehicles, which patrol the FTE Highway System in the Tampa area (Polk Parkway, Suncoast, etc.) | Existing | Emergency Management Center | FHP | Major Gaston inputs.  **Added element and changed name to FHP TBRCC, included in PS01 and PS02 service packages, modeled similar architecture as FHP TLRCC with regard to interfaces with FTE Turkey Lake and Pompano TMCs and FHP Vehicles.** |
| Financial Institutions | Banking and financial institutions used by ITS systems to perform various banking transactions (e.g., funds transfers, credit card account management). | Existing | Financial Center | Financial Institutions | Is this needed? (Eric Gordin) Yes, see above (Chris Bausher)  **Retained element.** |
| Florida Statewide Tolling Customer Service Center | This element represents a future, centralized, state-run tolling customer service center for the entire State of Florida. Tolling information would be sent from individual tolling plazas to this customer service center. | Existing | Payment Administration Center | State of Florida | Consolidated Customer Service Center – new name. (Eric Gordin)  Should be CCSS – Centralized Customer Service Center (Chris Bausher)  **Changed to Florida Statewide Tolling CCSS.** |
| Florida 511 | The system that provides near real-time advanced traveler information in the State of Florida. The system may include video images, travel time information, construction information, and subscription services. | Existing | Transportation Information Center | FDOT | Do we need multiple Florida 511 Element Names in the list?  **Retained 511 element from current RITSA. Renamed as FL511.** |
| FTE Data Collection Field Equipment | Represents the ITS field equipment operated by the Florida Turnpike Enterprise including vehicle detectors and CCTV cameras to monitor traffic. Includes mobile CCTVs (van–mounted). | Existing | ITS Roadway Equipment | FTE | Express Lane Open Road Tolling: Wordsmith the existing architecture naming.  **Revised element description to add support for Express Lane Open Road Tolling.** |
| FTE EOC | Represent the FDOT Turnpike Enterprise Emergency Operations Center (EOC). | Existing | Emergency Management Center | Florida’s Turnpike Enterprise | **Revised FTE EOC description to explain it is activated as necessary in Pompano or Turkey Lake depending on storm path.** |
| FTE Facilities Management Department | Represents the department of FTE responsible for facilities management and facilities monitoring | Existing | Emergency Management Center | Florida’s Turnpike Enterprise | Element name should reflect a system.  **Changed name to FTE Facilities Management System.** |
| FTE Maintenance Facilities | Represents the maintenance systems and maintenance dispatch for FDOT Turnpike Enterprise. Dispatches maintenance vehicles and equipment for maintaining the road, bridges and ITS equipment owned by the FDOT Turnpike Enterprise. | Existing | Maintenance and Construction Management Center | FTE | FTE maintenance and construction has a tablet-based work order system.  **Revised information flows from FTE Maintenance and Construction Vehicles to FTE Maintenance Facilities to Existing, whether or not a tablet-based approach is used doesn’t affect the architecture.** |
| FTE TEAMS | Florida Turnpike Enterprise Asset Management System (TEAMS). TEAMS allows users to input assets to maintain inventory TEAMS may include traffic safety/crash information, roadway information, traffic operational data, assets, and maintenance information. | Existing | Archived Data System | Florida’s Turnpike Enterprise | TEAMS doesn’t exist anymore.  **Removed element.** |
| FTE Toll Plaza Centers | Represents individual tolling locations | Existing | Traffic Management Center | Florida’s Turnpike Enterprise | This looks like a duplicate of FTE SunPass Toll Collection System. Possibly remove (Chris Bausher)  FTE is the only all electronic/toll by plate system in central Florida.  **Revised element name to remove “Centers”. Represents individual FTE tolling locations. Added video surveillance control and traffic images between FTE Toll Plazas and FTE SunPass Toll Collection System.** |
| FTE Traffic Count Database | Future FTE traffic volume and count database for transportation planning purposes. | Planned | Archived Data System | Florida’s Turnpike Enterprise | Change status to Existing.  **Revised status to Existing and modified description to reflect revised status.** |
| FTE 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 the FDOT Turnpike Enterprise. This information is then provided to the statewide archive in Tallahassee. | Planned | Archived Data System | Florida’s Turnpike Enterprise | Check status, maybe Existing.  **Retained element status as Planned.** |
| LeeWay Customer Service Center | The customer service center for the LeeWay toll system. | Existing | Payment Administration Center | Lee County DOT | Do we need to include this individually, or just have a generic “Customer Service Center” or similar? See above – combine Lee Co with CFX (Eric Gordin)  **Retained element.** |
| MDX Toll Plazas | The Miami–Dade Expressway Authority (MDX) collects tolls at the MDX Toll Plazas representing individual tolling locations. | Existing | ITS Roadway Equipment, ITS Roadway Payment Equipment | MDX | Miami-Dade is toll by plate.  **Added video surveillance control and traffic images between MDX Toll Plazas and MDX Tolling System.** |
| 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 | Payment Administration Center | Osceola County Expressway Authority | Remove. This doesn’t exist anymore. All projects were transferred to CFX.  **Removed element.** |
| Parking Facilities | Parking Facilities (e.g., Orlando International Airport, Palm Beach International Airport, Tampa International Airport, Ft. Lauderdale International Airport, Miami International Airport and Hard Rock Stadium) that use the Florida Statewide Tolling CCSS back office to process parking fees. | Existing | Parking Management System | Parking Operators | SunPass is used by one stadium and the airport.  **Added Parking Facilities element with current description of airports and Hard Rock Stadium to use SunPass Tag for airports and stadium.** |
| Regional HAZMAT Team | Represents regional HAZMAT response teams. May consist of local, county and/or FDOT public safety responders. | Existing | Emergency Management Center |  | Element name should reflect a system.  **Added “Response” to name. Added HAZMAT Agencies stakeholder group.** |
| Sanford Regional Communications Center (formerly Orlando RCC) | The Sanford Regional Communications Center (SRCC) supports and dispatches vehicles assigned to the Orlando metro area, including SR-417, SR-429, SR-528 | Existing | Emergency Management Center | FHP | Major Gaston inputs.  **Added as new element. Changed Element name to FHP SRCC, included in PS01 and PS02 service packages, modeled similar architecture as FHP TLRCC with regard to interfaces with FTE Turkey Lake and Pompano TMCs and FHP Vehicles.** |
| Statewide ETC Reciprocity Network | This is a network that allows reconciliation of toll charges across different agencies. This network allows the exchange of information about clients who have incurred charges in jurisdictions of toll collection agencies other than their home (billing) customer service center. This information is used to resolve toll payments between the participating customer service centers. This architecture flow enables "reciprocity" between participating customer service centers. | Existing | Other Payment Administration Centers | Florida Toll Authorities | This may not exist anymore.  This should be retitled Southeast Hub.  Need a Central Hub for connectivity to TX, OK, and KS. (will be live Q2 2020)  Need an element for IAG agency (18 peer to peer connections for interoperability with the Northeast. (will be live Q2 2020)  Add West Hub (Future) (Chris Bausher)  **Retained element name. Represents all the hubs (Southeast, Central, West). This architecture is more concerned about information sharing, not how hubs are configured.** |
| 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 | Payment Administration Center | Florida’s Turnpike Enterprise | Replaced by CCSS. Looks like a duplicate (Chris Bausher)  **Revised to transition flows from/to SunPass CSC to the CCSS.** |
| SunPass Tag | SunPass vehicle transponder used for electronic payment of toll and other, e.g. Airport Parking. | Existing | Payment Device, Traveler Card, Vehicle OBE | Florida’s Turnpike Enterprise | Discuss all SunPass items with Chris Bausher for clarification. (Eric Gordin)  SunPass is used by one stadium and the airport.  **Revised per FTE discussion held March 9, 2020. Added Parking Facilities element with current description of airports and Hard Rock Stadium to use SunPass Tag for airports and stadium.** |
| THEA Toll Plazas | The Tampa Hillsborough Expressway Authority (THEA) collects tolls at the THEA Toll Plazas representing individual tolling locations. | Existing | ITS Roadway Equipment, ITS Roadway Payment Equipment | THEA | Tampa is toll by plate.  **Added video surveillance control and traffic images between THEA Toll Plazas and THEA Tolling System.** |
| Vehicles | Represents the ITS elements installed on private traveler vehicles. | Existing | Vehicle OBE | Travelers | Change to Planned status (Eric Gordin)  **Retained Vehicles as Existing although some additional connected vehicle equipment may be Planned. Merged Connected Vehicle interfaces with Vehicle.** |

## Service Packages

The service package changes include name revisions, new services, and service removal to simplify the FTE RITSA.

The stakeholder inputs gathered from the Initial Review Meeting, as well as other inputs gathered from numerous stakeholder interactions are provided in the tables below. Table 3 provides the disposition of the original services. In the table, the services are identified and the actions taken by the FDOT Architecture Team are described. An overarching change was the renaming of all of the services. The original service names were cryptic and it was not readily apparent what they entailed. To more closely map the FTE RITSA to the Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT), the ARC-IT service numbering was used as part of the service name revision. Table 4 provides a list of new service or revised services in the SITSA update.

Table 3 Original FTE RITSA Service Revisions

| **Service Package Name** | **Service Package Description** | **Recommendation & Action Taken** |
| --- | --- | --- |
| AD1-2\_D8 | Florida’s Turnpike Enterprise Assets Management System (TEAMS) | **Removed service.** |
| AD2-1\_D8 | SunGuide Data Archiving | **Revised status to Existing. Changed service name to ITS Data Warehouse (SunGuide Data Archiving).** |
| AD3-1\_D8 | FDOT Statistics and Planning Office | **Changed service name to ITS Data Warehouse (FDOT Statistics and Planning Office).** |
| ATIS01-1\_D8 | FTE (Outputs) | **Changed service name to Broadcast Traveler Information (FTE) and combined with ATIS01-2)\_D8.** |
| ATIS01-2\_D8 | FTE (Inputs) | **Combined with ATIS01-1\_D8.** |
| ATIS02-1\_D8 | FTE | **Changed service name to Personalized Traveler Information (FTE).** |
| ATIS09-1\_D8 | FTE Connected Vehicles | **Changed service name to In-Vehicle Signage (FTE).** |
| ATIS09-2\_D8 | FTE Connected Vehicles - Emergency Vehicles | **Removed service as it is part of TI07 FTE Connected Vehicles.** |
| ATMS01-1\_D8 | FTE | **Changed service name to Infrastructure-Based Traffic Surveillance (FTE) and changed status to Existing.** |
| ATMS02-1\_D8 | FTE | **Changed service name to Vehicle-Based Traffic Surveillance (FTE).** |
| ATMS04-1\_D8 | FTE | **Changed service name to Traffic Metering (FTE Ramps).** |
| ATMS04-2\_D8 | FTE Lane Control | **Changed service name to Traffic Metering (FTE Lane Controls).** |
| ATMS06-1\_D8 | FTE | **Changed service name to Traffic Information Dissemination (FTE 1 of 2).** |
| ATMS06-2\_D8 | FTE | **Changed service name to Traffic Information Dissemination (FTE 2 of 2).** |
| ATMS07-1\_D8 | Other Traffic Management Agencies | **Changed service name to Regional Traffic Management (FDOT WAN/C2C) and changed status to Existing.** |
| ATMS07-2\_D8 | FTE | **Changed service name to Regional Traffic Management (FTE 1 of 2) and changed status to Existing.** |
| ATMS07-3\_D8 | FTE | **Changed service name to Regional Traffic Management (FTE 2 of 2) and changed status to Existing.** |
| ATMS07-4\_D8 | FTE Toll Plaza Centers | **Changed service name to Regional Traffic Management (FTE Toll Plaza Centers).** |
| ATMS08-1\_D8 | Florida Turnpike Enterprise (TM to EM) | **Removed service. It is now part of PS02: Emergency Response (FHP and FTE Road Rangers) and PS02: Emergency Response (Private Tow Wreckers).** |
| ATMS08-1\_D8-2 | FTE (TM to EM) | **Changed service name to Traffic Incident Management System (FTE TM to EM).** |
| ATMS08-2\_D8 | Florida Turnpike Enterprise | **Removed service. It is now part of PS02: Emergency Response (FHP and FTE Road Rangers) and PS02: Emergency Response (Private Tow Wreckers).** |
| ATMS08-2\_D8-2 | FTE | **Changed service name to Traffic Incident Management System (FTE).** |
| ATMS08-3\_D8-2 | (EM to EVS) | **Removed service given Emergency Vehicles no longer included.** |
| ATMS08-4\_D8-2 | (EM to EVS) | **Removed service given Emergency Vehicles no longer included.** |
| ATMS09-1\_D8 | FTE Managed Lanes | **Changed service name to** **Integrated Decision Support and Demand Management (FTE).** |
| ATMS09-2\_D8 | Regional Express Lane Tolling | **Removed service and combined with Integrated Decision Support and Demand Management (FTE).** |
| ATMS09-3\_D8 | FTE Integrated Corridor Management | **Changed service name to Integrated Decision Support and Demand Management (FTE Integrated Corridor Management).** |
| ATMS10-1\_D8 | FTE | **Changed service name to Electronic Toll Collection (FTE).** |
| ATMS10-2\_D8 | FTE - Reciprocity Network | **Changed name to Electronic Toll Collection (FTE Reciprocity Network) and changed status to Existing.** |
| ATMS10-3\_D8 | Florida Statewide Tolling | **Changed service name to Electronic Toll Collection (Florida Statewide Tolling).** |
| ATMS17-1\_D8 | CV Parking | **Changed service name to Regional Parking Management (FTE Commercial Vehicle Parking).** |
| ATMS18-1\_D8 | FTE One-Way Evacuation | **Changed service name to Reversible Lane Management (FTE One-Way Evacuation).** |
| ATMS19-1\_D8 | FTE | **Changed service name to Speed Warning and Enforcement (FTE).** |
| ATMS21-1\_D8 | FTE | **Changed service name to Roadway Closure Management (FTE).** |
| ATMS23-1\_D8 | SunWatch Center | **Changed service name to Dynamic Lane and Shoulder Use (SunWatch Center).** |
| ATMS23-2\_D8 | FTE | **Changed service name to Dynamic Lane and Shoulder Use (FTE).** |
| ATMS24-1\_D8 | Wrong Way Vehicle Detection | **Changed service name to Dynamic Roadway Warning (Wrong Way Vehicle Detection).** |
| ATMS24-2\_D8 | Connected Vehicle Wrong Way Vehicle Detection | **Removed service and replaced with VS03 – Situational Awareness for CAV Wrong Way Driving.** |
| AVSS12-1\_D8 | FTE Connected Vehicles | **Changed service name to V2V Basic Safety (FTE Connected Vehicles).** |
| AVSS12-2\_D8 | Commercial Vehicle Platooning | **Changed service name to V2V Basic Safety (FTE Commercial Vehicle Platooning).** |
| AVSS12-1\_D8-2 | FTE Connected Vehicles | **Changed service name to Situational Awareness (FTE Connected Vehicles).** |
| AVSS12-2\_D8-2 | Commercial Vehicle Platooning | **Changed service name to Situational Awareness (Commercial Vehicle Platooning).** |
| EM02-1\_D8 | Florida Highway Patrol Dispatch | **Changed service name to Emergency Vehicle Preemption (FHP).** |
| EM04-1\_D8 | FTE Service Patrol | **Changed service name to Roadway Service Patrols (FTE). Changed status to Existing.** |
| EM05-1\_D8 | FTE Enterprise (1 of 2) | **Changed service name to Transportation Infrastructure Protection (FTE 1 of 2), status of Existing.** |
| EM06-1\_D8 | Amber Alert | **Changed service name to Wide-Area Alert (Amber, Silver and Blue Alerts) based on other comments and changed status to Existing.** |
| EM06-2\_D8 | Florida Turnpike Enterprise EOC (General Alerts) | **Changed service name to Wide-Area Alert (FTE EOC General Alerts) and changed status to Existing.** |
| EM07-1\_D8 | Florida Turnpike Enterprise EOC (1 of 2) | **Changed service name to Early Warning System (FTE EOC 1 of 2) and changed status to Existing.** |
| EM07-2\_D8 | Florida Turnpike Enterprise EOC (2 of 2) | **Changed service name to Early Warning System (FTE EOC 2 of 2) and changed status to Existing.** |
| EM08-1\_D8 | Florida Turnpike Enterprise EOC (1 of 2) | **Changed service name to Disaster Response and Recovery (FTE EOC 1 of 2) and changed status to Existing.** |
| EM08-2\_D8 | Florida Turnpike Enterprise EOC (2 of 2) | **Changed service name to Disaster Response and Recovery (FTE EOC 2 of 2) and changed status to Existing.** |
| EM09-1\_D8 | Florida Turnpike Enterprise EOC (1 of 2) | **Changed service name to Evacuation and Reentry Management (FTE EOC 1 of 2) and changed status to Existing.** |
| EM09-2\_D8 | Florida Turnpike Enterprise EOC (2 of 2) | **Changed service name to Evacuation and Reentry Management (FTE EOC 2 of 2) and status to Existing.** |
| EM10-1\_D8 | Florida Turnpike Enterprise EOC | **Changed service name to Disaster Traveler Information (FTE EOC) and changed status to Existing.** |
| MC01-1\_D8 | Florida Turnpike Enterprise | **Changed service name to Maintenance and Construction Vehicle and Equipment Tracking (FTE).** |
| MC03-1\_D8 | FTE | **Changed service name to Weather Data Collection (FTE).** |
| MC04-1\_D8 | FTE | **Changed service name to Weather Information Processing and Distribution (FTE).** |
| MC07-1\_D8 | Florida Turnpike Enterprise (1 of 2) | **Changed service name to Roadway Maintenance and Construction (FTE).** |
| MC07-2\_D8 | Florida Turnpike Enterprise (2 of 2) | **Removed service and consolidated into Roadway Maintenance and Construction (FTE).** |
| MC08-1\_D8 | Florida Turnpike Enterprise | **Changed service name to Work Zone Management (FTE).** |
| MC09-1\_D8 | Florida Turnpike Enterprise | **Changed service name to Work Zone Safety Monitoring (FTE).** |
| MC10-1\_D8 | Florida Turnpike Enterprise Maintenance (1 of 2) | **Changed service name to Maintenance and Construction Activity Coordination (FTE 1 of 2).** |
| MC10-2\_D8 | Florida Turnpike Enterprise Maintenance (2 of 2) | **Changed service name to Maintenance and Construction Activity Coordination (FTE 1 of 2).** |

Table 4 Revised and New FTE Services

| **Service** | **Service Name** | **Action Taken** |
| --- | --- | --- |
| CVO12 | HAZMAT Management (FTE) | **Revised Service.** |
| DM01 | ITS Data Warehouse (FDOT Statistics and Planning Office) | **Revised Service.** |
| DM01 | ITS Data Warehouse (FTE Traffic Count Database) | **Added Service.** |
| DM01 | ITS Data Warehouse (I-75 / SR 91 Interchange Project) | **New Project Service.** |
| DM01 | ITS Data Warehouse (SunGuide Data Archiving) | **Revised Service.** |
| MC01 | Maintenance and Construction Vehicle and Equipment Tracking (FTE) | **Revised Service.** |
| MC05 | Roadway Maintenance and Construction (FTE) | **Revised Service.** |
| MC06 | Work Zone Management (FTE) | **Revised Service.** |
| MC07 | Work Zone Safety Monitoring (FTE) | **Revised Service.** |
| MC08 | Maintenance and Construction Activity Coordination (FTE 1 of 2) | **Revised Service.** |
| MC08 | Maintenance and Construction Activity Coordination (FTE 2 of 2) | **Revised Service.** |
| PM03 | Parking Electronic Payment (Parking Operators) | **Added Service.** |
| PM04 | Regional Parking Management (FTE Commercial Vehicle Parking) | **Revised Service.** |
| PS01 | Emergency Call-Taking and Dispatch (911 PSAP) | **Revised Service.** |
| PS01 | Emergency Call-Taking and Dispatch (County Dispatch) | **Revised Service.** |
| PS01 | Emergency Call-Taking and Dispatch (FHP) | **Revised Service.** |
| PS01 | Emergency Call-Taking and Dispatch (Florida Statewide Incident and Mutual Aid Network) | **Revised Service.** |
| PS01 | Emergency Call-Taking and Dispatch (Local Dispatch) | **Revised Service.** |
| PS02 | Emergency Response (FHP and FTE Road Ranger Vehicles) | **Added Service.** |
| PS02 | Emergency Response (Private Tow Wreckers) | **Added Service.** |
| PS03 | Emergency Vehicle Preemption (FHP) | **Revised Service.** |
| PS08 | Roadway Service Patrols (FTE) | **Revised Service.** |
| PS09 | Transportation Infrastructure Protection (FTE 1 of 2) | **Revised Service.** |
| PS09 | Transportation Infrastructure Protection (FTE 2 of 2) | **Revised Service.** |
| PS09 | Transportation Infrastructure Protection (FTE Facilities Management) | **Revised Service.** |
| PS10 | Wide-Area Alert (Amber, Silver and Blue Alerts) | **Revised Service.** |
| PS10 | Wide-Area Alert (General Alerts) | **Revised Service.** |
| PS11 | Early Warning System (FTE EOC 1 of 2) | **Revised Service.** |
| PS11 | Early Warning System (FTE EOC 2 of 2) | **Revised Service.** |
| PS12 | Disaster Response and Recovery (FTE 1 of 2) | **Revised Service.** |
| PS12 | Disaster Response and Recovery (FTE 2 of 2) | **Revised Service.** |
| PS13 | Evacuation and Reentry Management (FTE 1 of 2) | **Revised Service.** |
| PS13 | Evacuation and Reentry Management (FTE 2 of 2) | **Revised Service.** |
| PS14 | Disaster Traveler Information (FTE) | **Revised Service.** |
| SU02 | Core Authorization (FTE Connected Vehicle) | **Added Service.** |
| SU04 | Map Management (FTE Connected Vehicle) | **Added Service.** |
| SU08 | Security and Credentials Management (FTE) | **Added Service.** |
| TI01 | Broadcast Traveler Information (FTE) | **Revised Service.** |
| TI02 | Personalized Traveler Information (FTE) | **Revised Service.** |
| TI07 | In-Vehicle Signage (FTE) | **Revised Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (CFX) | **Revised Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (City of Lakeland) | **Revised Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (FTE and FDOT Video Sharing Project) | **New Project Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (FTE Northern CCTV and DMS Project) | **New Project Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (FTE) | **Revised Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (Generic FTE Roadway AET Project) | **New Project Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (Generic FTE Widen Roadway Project) | **New Project Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (I-75 / SR 91 Interchange Project) | **New Project Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (MDX) | **Revised Service.** |
| TM01 | Infrastructure-Based Traffic Surveillance (THEA) | **Revised Service.** |
| TM02 | Vehicle-Based Traffic Surveillance (FTE) | **Revised Service.** |
| TM05 | Traffic Metering (FTE Lane Controls) | **Revised Service.** |
| TM05 | Traffic Metering (FTE Ramps) | **Revised Service.** |
| TM06 | Traffic Information Dissemination (FTE 1 of 2) | **Revised Service.** |
| TM06 | Traffic Information Dissemination (FTE 2 of 2) | **Revised Service.** |
| TM06 | Traffic Information Dissemination (FTE Central FL DMS Project) | **New Project Service.** |
| TM06 | Traffic Information Dissemination (FTE Northern CCTV and DMS Project) | **New Project Service.** |
| TM06 | Traffic Information Dissemination (FTE South FL DMS Project) | **New Project Service.** |
| TM06 | Traffic Information Dissemination (Generic FTE Widen Roadway Project) | **New Project Service.** |
| TM06 | Traffic Information Dissemination (I-75 / SR 91 Interchange Project) | **New Project Service.** |
| TM07 | Regional Traffic Management (CFX, FTE and FDOT) | **Revised Service.** |
| TM07 | Regional Traffic Management (FDOT WAN/C2C) | **Revised Service.** |
| TM07 | Regional Traffic Management (FTE 1 of 2) | **Revised Service.** |
| TM07 | Regional Traffic Management (FTE 2 of 2) | **Revised Service.** |
| TM07 | Regional Traffic Management (FTE Toll Plaza Centers) | **Revised Service.** |
| TM08 | Traffic Incident Management System (FTE TM to EM) | **Revised Service.** |
| TM08 | Traffic Incident Management System (FTE) | **Revised Service.** |
| TM09 | Integrated Decision Support and Demand Management (FTE Integrated Corridor Management) | **Revised Service.** |
| TM09 | Integrated Decision Support and Demand Management (FTE) | **Revised Service.** |
| TM10 | Electronic Toll Collection (CFX) | **Revised Service.** |
| TM10 | Electronic Toll Collection (FDOT Existing) | **Revised Service.** |
| TM10 | Electronic Toll Collection (FDOT Planned) | **Revised Service.** |
| TM10 | Electronic Toll Collection (Florida Statewide Tolling) | **Revised Service.** |
| TM10 | Electronic Toll Collection (FTE Reciprocity Network) | **Revised Service.** |
| TM10 | Electronic Toll Collection (FTE) | **Revised Service.** |
| TM10 | Electronic Toll Collection (Generic FTE Roadway AET Project) | **New Project Service.** |
| TM10 | Electronic Toll Collection (Generic FTE Widen Roadway Project) | **New Project Service.** |
| TM10 | Electronic Toll Collection (I-75 - SR 91 Interchange Project) | **New Project Service.** |
| TM10 | Electronic Toll Collection (MDX) | **Revised Service.** |
| TM10 | Electronic Toll Collection (NCTA) | **Revised Service.** |
| TM10 | Electronic Toll Collection (Other Turnpike Authorities) | **Revised Service.** |
| TM10 | Electronic Toll Collection (Small Toll Transaction Agencies) | **Revised Service.** |
| TM10 | Electronic Toll Collection (SR 528 Express Lanes Project) | **New Project Service.** |
| TM10 | Electronic Toll Collection (SRTA) | **Revised Service.** |
| TM10 | Electronic Toll Collection (THEA) | **Revised Service.** |
| TM11 | Road Use Charging (FDOT Existing) | **Added Service.** |
| TM11 | Road Use Charging (FDOT Planned) | **Added Service.** |
| TM12 | Dynamic Roadway Warning (Wrong Way Vehicle Detection) | **Revised Service.** |
| TM16 | Reversible Lane Management (FTE One-Way Evacuation) | **Revised Service.** |
| TM17 | Speed Warning and Enforcement (FTE) | **Revised Service.** |
| TM19 | Roadway Closure Management (FTE) | **Revised Service.** |
| TM22 | Dynamic Lane and Shoulder Use (FTE) | **Revised Service.** |
| TM22 | Dynamic Lane and Shoulder Use (SunWatch Center) | **Revised Service.** |
| VS02 | V2V Basic Safety (FTE Commercial Vehicle Platooning) | **Revised Service.** |
| VS02 | V2V Basic Safety (FTE Connected Vehicles) | **Revised Service.** |
| VS03 | Situational Awareness (Commercial Vehicle Platooning) | **Added Service.** |
| VS03 | Situational Awareness (Connected Vehicle Wrong Way Driving Project) | **New Project Service.** |
| VS03 | Situational Awareness (Connected Vehicle Wrong Way Driving) | **Added Service.** |
| VS03 | Situational Awareness (FTE Connected Vehicles) | **Added Service.** |
| VS09 | Reduced Speed Zone Warning / Lane Closure (FTE) | **Added Service.** |
| VS11 | Oversize Vehicle Warning (FTE Overheight Project) | **New Project Service.** |
| VS11 | Oversize Vehicle Warning (FTE) | **Added Service.** |
| WX01 | Weather Data Collection (FTE) | **Revised Service.** |
| WX02 | Weather Information Processing and Distribution (FTE) | **Revised Service.** |

## Current and New Projects in the Architecture

The projects were a primary source of discussion and review during the Review Meeting. Projects that are part of a larger deployment program, containing the same elements and interfaces, and are repeated over consecutive geographic segments or project phases, were generalized into a single project instance. This generalization constitutes the definition of one project architecture that will be used multiple times for different iterations of a deployed configuration. In the same vein, on-going projects that are implementing the same technology supporting the physical expansion of a system, such as a CCTV expansion, were also generalized as one project architecture definition. This has the benefit of reducing the complexity of the architecture and maintaining consistency across repetitive projects.

Projects that were identified as being completed, were folded into the FTE RITSA. Projects that have not been completed but are going to be deployed, were noted as on-going. Projects that are no longer valid or being pursued, were removed. New projects were added as identified by stakeholders. The projects reviewed and provided by stakeholders for the FTE Architecture are provided in Table 5.

Table 5 Projects

| **Project Name** | | **Project Description** | **Recommendation & Action Taken** |
| --- | --- | --- | --- |
| Florida Statewide Tolling Customer Service Center | | This project will create a statewide customer service center for tolling, which will replace regional and individual authority tolling customer service centers. Under this scenario, toll plazas will send information to a centralized, state-managed customer service center. In addition, this project will create a single toll-tag for the State of Florida. | Planned project.  Obtained this from District 5’s ITS Architecture (Eric Gordin)  This is CCSS. It is complete. (Chris Bausher)  **Project completed. Renamed the inventory element (project name) to Florida Statewide Tolling Centralized Customer Service System (CCSS) based on FTE feedback.** |
| Widen SR 417 MP 38-44 | This is an ITS project that will replace or upgrade existing DMS, CCTV, MVDS, TTS and Wrong Way signs. | | Discussion at Initial Review Meeting indicated that this project is still Planned but on hold. Decided to combine the FTE Data Dissemination Field Equipment element with the FTE Data Collection Field Equipment element. (Eric Gordin)  **Changed project name to Generic FTE Widen Roadway. After architecture analysis, retained the FTE Data Dissemination and FTE Data Collection elements separately. Replaced SunPass CSC with Florida Statewide Tolling CCSS element.** |
| Widen SR 528 MP 0.0-4.2 | | This is an Express Lane ITS project (FPID# 406090-5) that replaced and upgraded existing DMS, CCTV, MVDS, TTS. | Discussion at Initial Review Meeting indicated that this project is complete. (Eric Gordin)  **Added project content to FTE RITSA and removed project from list. Renamed SR528 Beachline project to SR 528 Express Lanes project for project below (MP 4.2-8.4).** |
| SR 528 MP 4.2-8.4 | | This is an Express Lane ITS project (437156-1) that replaced and upgraded existing DMS, CCTV, MVDS, TTS. | Project completed January 2020 (Eric Gordin)  **Added project content to FTE RITSA and removed project from list. Substituted SunPass CSC with Florida Statewide Tolling CCSS.** |
| SR 589 MP 2.74-5.35 | | Widen Veterans from Memorial to Barry Road. This is an ITS project (FPID#406151-1) that added DMS, CCTV, MVDS, TTS. | Discussion at Initial Review Meeting indicated that this project is complete. (Eric Gordin)  **Added project content to FTE RITSA and removed project from list.** |
| SR 589 MP 5.35-7.16 | Widen Veterans from Barry Road to Linebaugh. This is an ITS project (FPID# 406152-1) that added DMS, CCTV, MVDS, TTS. | | Discussion at Initial Review Meeting indicated that this project is complete. (Eric Gordin)  **Added project content to FTE RITSA and removed project from list.** |
| SR 589 MP 7.16-9.00 | Widen Veterans from Linebaugh to Gunn. This is an ITS project (FPID# 431275-1) that added DMS, CCTV, MVDS, TTS. | | Discussion at Initial Review Meeting indicated that this project is complete. (Eric Gordin)  **Added project content to FTE RITSA and removed project from list.** |
| SR 589 MP 9-11 | Widen Veterans from S. of Gunn to Sugarwood Mainline Plaza. This is an ITS project (FPID# 429350-1) that added DMS, CCTV, MVDS, TTS. | | Discussion at Initial Review Meeting indicated that this project is complete. (Eric Gordin)  **Added project content to FTE RITSA and removed project from list.** |
| SR 589 MP 11-14 | Widen Veterans Xway - Sugarwood Mainline Plaza to Van Dyke Rd. This is an Express Lane ITS project (FPID# 429350-4) that replaced and upgraded existing DMS, CCTV, MVDS, TTS. | | Discussion at Initial Review Meeting indicated that this project is complete. (Eric Gordin)  **Added project content to FTE RITSA and removed project from list.** |
| Widen SR 821 TPK Extension MP 5-47 | Heft Widening. These projects are Express Lane ITS projects that will replace and upgrade existing DMS, CCTV, MVDS, TTS. Note: Express Lane projects on the Turnpike are currently being descoped. Projects are: FPID#’s 437152-2, 4066096-1, 415051-1, 427146-1, 415051-4 & 435546-1. These projects are currently under construction. | | Estimated Completion: January 2020.  **Removed all Heft projects. They are now covered by the Generic FTE Widen Roadway project. Replaced SunPass CSC with Florida Statewide Tolling CCSS element.** |
| SR 821 MP 11.8-14.5 | Widen HEFT SW 216th to Eureka Dr. | | Completed: February 2017.  **Removed HEFT project.** |
| SR 821 MP 14.5-20 406096-1 | Widen HEFT Eureka to Killian Pkwy. | | Estimated Completion: March 2020.  Discussion at Initial Review Meeting indicated that this project is still ongoing and still Planned. Project name may change.  **Removed HEFT project.** |
| SR 821 MP 19.4-21.87 415051-1 | Widen HEFT Killian Pkwy to SW 72nd. | | Estimated Completion: November 2020. Discussion at Initial Review Meeting indicated that this project is still ongoing and still Planned. Project name may change.  **Removed HEFT project.** |
| SR 821 MP 21.87-23.8 427146-1 | Widen HEFT SW 72nd to Bird Road. | | Estimated Completion: March 2020.  Discussion at Initial Review Meeting indicated that this project is still ongoing and still Planned. Project name may change.  **Removed HEFT project.** |
| SR 821 MP 23-26 415051-4 | Widen HEFT Bird Road to SR 836. | | Estimated Completion: April 2021.  Discussion at Initial Review Meeting indicated that this project is still ongoing and still Planned. Project name may change.  **Removed HEFT project.** |
| SR 821 MP 26-34 435543-1 | Widen HEFT SR 836 to 106th St. | | Add. Estimated Completion: September 2025.  **Removed HEFT project.** |
| SR 821 MP 39-47 435546-1 | Widen HEFT I-75 to Miramar. | | Add. Estimated Completion: February 2022.  **Removed HEFT project.** |
| SR 91 and SR 821 | Additional Mainline CCTV coverage. | | Project Complete. Discussion at Initial Review Meeting indicated that this project is complete.  **Added project content to FTE RITSA and removed project from list.** |
| SR 91 MP 86-93 406144-1 | Widening Boynton Beach Blvd to Lake Worth. | | Add. Estimated Completion: March 2024.  **Removed project. Project now covered by the Generic FTE Widen Roadway project to account for a number of projects along SR 91. Replaced SunPass CSC with Florida Statewide Tolling CCSS element.** |
| SR 91 MP 247-255 411406-1 (formerly named SR 91 Phase 4) | Widen South of Osceola to Beachline Expressway MP 247 to 255. | | Name revised. Estimated Completion: May 2021.  **Removed project. Project now covered by the Generic FTE Widen Roadway project.** |
| SR 91 MP 273-279 435784-1, 435785-1 | Widen TPK SR 50 Clermont to Orange Lake C/L. | | Add. Estimated Completion: April 2025.  **Removed project. Project now covered by the Generic FTE Widen Roadway project.** |
| Central FL DMS 435605-6 | Central FL DMS Improvements & Replacement. | | Add. Estimated Completion: April 2020.  **Removed project and added generic FTE Central FL DMS project.** |
| South FL DMS 435605-7 | South FL DMS Improvements & Replacements. | | Add. Estimated Completion: November 2020.  **Removed project and added generic FTE Southern FL DMS project.** |
| Northern CCTV Camera Installation & DMS 443634-2/3, 443878-2 | Northern CCTV Camera Installation & DMS. | | Add. Estimated Completion: May 2021.  **Removed project and added generic FTE Northern CCTV and DMS project.** |
| ADMS Broward and Palm Beach DMS 435617-1 (formerly named Broward and Palm Beach DMS) | Off system project. Install Arterial DMS signs in Broward and Palm Beach Counties. | | Name revised. Project Complete  Discussion at Initial Review Meeting indicated that FTE will check status of this project.  **Retained project and changed name to ADMS Broward and Palm Beach DMS.** |
| SR 869 DMS Replacements 435605-1 (formerly named SR 869 Sawgrass Expressway) | Sawgrass Expressway DMS Replacements. | | Name revised. Discussion at Initial Review Meeting indicated that this project is complete.  **Added project content to FTE RITSA and removed project from list.** |
| SR 91 AET MP 236-309 441322-1 | All Electronic Tolling (AET) Northern Turnpike. | | Add. Estimated Completion: January 2021.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 91 AET 8 MP 88-236 431737-1 | All Electronic Tolling (AET) Phase 8 (Central Turnpike). | | Add. Estimated Completion: May 2024.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 589 AET 6C MP 14.15-55.064 436619-1 (formerly named SR 589 AET) | All Electronic Tolling (AET) Phase 6C Suncoast Parkway. | | Name revised. Estimated Completion: June 2020. Discussion at Initial Review Meeting indicated that this project is still Planned.  **Removed project and added Generic FTE Roadway AET project. Substituted SunPass CSC with Florida Statewide Tolling CCSS.** |
| SR 91 AET 5A MP 54-88 429339-1 | All Electronic Tolling (AET) Phase 5A. | | Add. Estimated Completion: July 2020.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 91 AET 4B MP 49- 54 (formerly named SR 91 AET) | All Electronic Tolling (AET) Phase 4B, MP 49 to 54. | | Name revised. Discussion at Initial Review Meeting indicated that this project is complete.  **Retained project and revised as the Generic FTE Roadway AET project. Replaced SunPass CSC with Florida Statewide Tolling CCSS element.** |
| SR 91 AET 5C MP 77-88 429339-4 | All Electronic Tolling (AET) Phase 5C, MP 77 to 88. | | Add. Estimated Completion: July 2020.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 570 AET MP 0-18 440857-1 | All Electronic Tolling (AET) Polk Parkway MP 0 to 18. | | Add. Estimated Completion: January 2023.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 589 AET 6B MP 9-16.5 (formerly SR 589 Veterans Expressway AET) | All Electronic Tolling (AET) Phase 6B Gunn Hwy to Van Dyke Rd. | | Name revised. Completed: June 2015  Project Complete.  Revised name. Discussion at Initial Review Meeting indicated that FTE will check status of this project.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 91 MP 259 | I-4 Turnpike Direct Connect. | | Add. Estimated Completion: May 2021.  **Removed project and added Generic FTE Roadway AET project.** |
| SR 589 Suncoast Parkway MP 44 to 67 | SR 589 Suncoast Parkway 2. | | Add. Estimated Completion: June 2022.  **Removed project and added Generic FTE Roadway AET project.** |
| I-75 / SR 91 Interchange 406110-1 (formerly named I-75 / SR 91 Interchange) | I-75 (SR 93) from SR 44 to North of US 27. | | Name revised. Discussion at Initial Review Meeting indicated that this project should be revised to be like SR 417 but no SunPass Customer Service Center is needed architecturally.  **Retained project and replaced SunPass CSC with Florida Statewide Tolling CCSS element.** |
| SR 589 Veterans Expressway Project X MP 2.911 to 10.398 435609-1 (formerly named SR 589 Veterans Expressway Project X) | Veterans Expressway managed lanes implementation. Memorial to Gunn (MM 2.911 to 10.398). | | Name revised. Discussion at Initial Review Meeting indicated that this project is complete.  **Added project content to FTE RITSA and removed project from list.** |
| SR 91 MP 309 I-75 Interchange 406110-1 (formerly named SR 91 Phase 2) | I-75/Tpk Interchange MP-309. | | Revised name. Discussion at Initial Review Meeting indicated that this project is still ongoing and still Planned. Project name may change.  **Removed project. Project now covered by the Generic FTE Widen Roadway project.** |
| SR 91 MP 58 406103-1 (formerly named SR 91 Phase 1) | Sunrise Blvd. Interchange Modification. | | Name revised. Estimated Completion: March 2020. Discussion at Initial Review Meeting indicated that FTE will check status of project. Project name may change.  **Removed project. Project now covered by the Generic FTE Widen Roadway project.** |
| FTE and FDOT Video Sharing | FTE video will be shared with the FDOT District TMCs. | | **Added new project.** |

## Agreements

The agreements listed in the FTE RITSA were reviewed and stakeholders provided inputs on the current list. New agreements were added as noted in Table 6.

Table 6 Agreement Revisions

| **#** | **Agreement Title** | **Agreement Type** | **Agreement Status** | **Description** | **Associated Stakeholders** | **Action Taken** |
| --- | --- | --- | --- | --- | --- | --- |
|  | Central Florida Consortium Fiber Sharing | Memorandum of Understanding | Existing | This MOU covers fiber sharing between FTE and the Central Florida Consortium. | FTE, FDOT District 5 | **Changed Central Florida Consortium to FDOT District 5.** |
|  | Central Florida Consortium Fiber Sharing | Memorandum of Understanding | Existing | This MOU covers fiber sharing between FTE and the Central Florida Consortium. | FTE, Central Florida Consortium | **Added agreement to FTE RITSA.** |
|  | Orange County Convention Center DMS Agreement | Memorandum of Understanding | Existing | This agreement between FTE and the Orange County Convention Center (OCCC) allows interagency coordination of DMS during special events. | FTE, OCCC | **Added OCCC as an associated stakeholder.** |
|  | FDOT District 4 Fiber Sharing Agreement | Memorandum of Agreement | Existing | This MOU covers fiber sharing between FTE and FDOT District 4. | FTE, FDOT District 4 | **Added agreement to FTE RITSA.** |
|  | FDOT District 6 Fiber Sharing Agreement | Memorandum of Agreement | Existing | This MOU covers fiber sharing between FTE and FDOT District 6. | FTE, FDOT District 6 | **Added agreement to FTE RITSA.** |
|  | Osceola County Fiber Sharing Agreement | Memorandum of Agreement | Existing | This MOU covers fiber sharing between FTE and Osceola County. | FTE | **Added agreement to FTE RITSA.** |
|  | Martin County Fiber Sharing Agreement | Memorandum of Agreement | Existing | This MOU covers fiber sharing between FTE and Martin County. | FTE | **Added agreement to FTE RITSA.** |
|  | Palm Beach County Fiber Sharing Agreement | Memorandum of Agreement | Existing | This MOU covers fiber sharing between FTE and Palm Beach County. | FTE | **Added agreement to FTE RITSA.** |
|  | CFX Fiber Sharing Agreement | Memorandum of Agreement | Existing | This MOU covers fiber sharing between FTE and the Central Florida Expressway Authority (CFX; formerly OOCEA). | FTE | **Added agreement to FTE RITSA.** |

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## Stakeholder Roles and Responsibilities

Roles and responsibilities were revised throughout the FTE RITSA for stakeholders. The descriptions and a listing of the majority of them are provided in Table 7.

Table 7 Roles and REsponsibilities

| **Stakeholder** | **Roles and Responsibilities** |
| --- | --- |
| Counties and Cities | Manage work zones on county and local roads. |
| Counties and Cities | Coordinate maintenance resources and activities with FTE, and neighboring counties and municipalities. |
| FDOT | Manage work zones on non-toll state highways. |
| FDOT | Coordinate maintenance resources and activities with FTE, and neighboring counties and municipalities. |
| FDOT District 1 | Provide FTE SELS road use payment based on current traffic conditions. |
| FDOT District 2 | Provide FTE SELS road use payment based on current traffic conditions. |
| FDOT District 4 | Provide FTE SELS road use payment based on current traffic conditions. |
| FDOT District 5 | Provide FTE SELS road use payment based on current traffic conditions. |
| FDOT District 6 | Provide FTE SELS road use payment based on current traffic conditions. |
| FDOT District 7 | Provide FTE SELS road use payment based on current traffic conditions. |
| FHP | Coordinate incident response with county and municipal public safety agencies. |
| FHP | Coordinate emergency response with county and municipal public safety agencies. |
| FHP | Dispatch FHP vehicles to emergencies on FTE roadways. |
| FHP | Coordinate emergency operations with county and local public safety agencies. |
| FHP | Provide incident information to traffic management and public safety agencies. |
| FHP | Receive emergency calls from cell phones for incidents on FTE-operated toll roads. |
| FHP | Coordinate emergency response with FTE, and county and local public safety agencies. |
| FHP | Collect and archive highway crash information |
| FHP | Receive emergency calls from cell phones for incidents within the region. |
| Florida Department of Law Enforcement | Issue Amber, Silver and Blue Alerts, and broadcast Alerts to the FHP |
| FTE | Collect road weather information. |
| FTE | Coordinate incident response with the FDOT, and county and local public works departments, including for scheduled events. |
| FTE | Perform network surveillance for incident detection and verification. |
| FTE | Provide incident information to travelers using traffic information devices, such as DMS and HAR equipment, on freeways. |
| FTE | Operate and dispatch Road Rangers Safety Patrol vehicles. |
| FTE | Provide traffic information reports to other agencies |
| FTE | Operate traffic information devices, such as dynamic message sign (DMS) and highway advisory radio (HAR) equipment, on highways. |
| FTE | Monitor traffic sensors on highways. |
| FTE | Monitor surveillance cameras on highways. |
| FTE | Provide incident information to the Florida Department of Transportation (FDOT), and other traffic management and public safety agencies. |
| FTE | Control highway traffic with lane control signals (future), including through toll lanes and reversible lanes. |
| FTE | Coordinate incident responses for incidents on or adjacent to toll roads with public safety in surrounding counties. |
| FTE | Provide traffic, incident, construction, and maintenance information for FTE toll roads to Florida 511. |
| FTE | Provide traveler information directly to drivers using DMS and HAR equipment. |
| FTE | Provide traffic, incident, construction, and maintenance information for FTE-operated toll roads to the general public using the Web site and local media. |
| FTE | Determine travel times for highways. |
| FTE | Maintain ITS equipment on toll roads. |
| FTE | Coordinate archive data with the FDOT statewide archive databases. |
| FTE | Collect and archive toll road traffic count data and toll data. |
| FTE | Collect and archive toll road asset information. |
| FTE | Coordinate emergency response with the FHP, and county and local public safety agencies. |
| FTE | Monitor infrastructure monitoring systems, or security systems, along toll roads (future). |
| FTE | Provide emergency traveler information to the traveling public. |
| FTE | Operate an EOC to direct emergency operations on toll roads during major emergencies and disasters. |
| FTE | Coordinate maintenance resource responses to toll road incidents with the Florida Highway Patrol (FHP), and county and local public safety agencies. |
| FTE | Provide traveler information to travelers using the Florida 511 system, private companies, and the media. |
| FTE | Coordinate maintenance resources and activities with neighboring FDOT districts, counties, and municipalities. |
| FTE | Provide toll road maintenance, including pavement maintenance. |
| FTE | Update asset information and restrictions. |
| FTE | Manage toll road work zones. |
| FTE | Coordinate with other FDOT TMCs to process dynamic tolls. |
| FTE | Provide customer account information using a Web site. |
| FTE | Coordinate with the Florida Department of Highway Safety and Motor Vehicles (DHSMV) and county courts to collect tolls from violators. |
| FTE | Coordinate with other toll agencies using a reciprocity network for the collection of electronic toll payments. |
| FTE | Dispatch tow wrecker vehicles to incidents on toll roads. |
| FTE | Provide availability of commercial vehicle parking spaces in rest areas to commercial vehicle drivers. |
| FTE | Receive road network conditions from FDOT TMCs and determine dynamic tolling rates. |
| FTE | Receive weather information from National Weather Service (NWS) and National Hurrican Center. |
| FTE | Collect weather information along the roadside. |
| Local Venue Promoters | Provide event information to traffic, maintenance, and public safety agencies. |
| NOAA | Provide FTE weather information through the National Weather Service and the National Hurricane Center. |
| Private Sector ISPs | Provide value added regional traveler information directly to drivers and travelers. |
| Private Sector ISPs | Provide incident information to FTE through the SunGuide system |

## Standards and Specifications

Standards and specifications were associated with the information flows in the FTE RITSA. Table 8 provides a high-level list of standards that were added to the FTE RITSA.

Table 8 High-Level List of Standards in FTE RITSA

| **Document ID** | **Standard Title** |
| --- | --- |
| ASTM E2468-05 | Standard Practice for Metadata to Support Archived Data Management Systems |
| ASTM E2665-08 | Standard Specifications for Archiving ITS-Generated Traffic Monitoring Data |
| CCMS | CCMS Communications |
| Contact-Proximity-Interface | Proximity Communication Interface |
| DSRC-UDP | Vehicle-to-Vehicle/Infrastructure using UDP |
| DSRC-WSMP | Vehicle-to-Vehicle/Infrastructure using WSMP |
| IEEE 1512 | Standard for Common Incident Management Message Sets for use by Emergency Management Centers |
| IEEE 1512.3 | Standard for Hazardous Material Incident Management Message Sets for Use by Emergency Management Centers |
| IEEE 1609.11 | Standard for Wireless Access in Vehicular Environments (WAVE) - Over- the-Air Data Exchange Protocol for Intelligent Transportation Systems (ITS) |
| IEEE 1609.2 | Standard for Wireless Access in Vehicular Environments (WAVE) - Security Services for Applications and Management Messages |
| ISO 19091 | Intelligent transport systems -- Cooperative ITS -- Using V2I and I2V communications for applications related to signalized intersections |
| ITE TMDD | Traffic Management Data Dictionary (TMDD) and Message Sets for External Traffic Management Center Communications (MS/ETMCC) |
| NTCIP 1201 | Global Object Definitions |
| NTCIP 1202 | Object Definitions for Actuated Traffic Signal Controller (ASC) Units |
| NTCIP 1203 | Object Definitions for Dynamic Message Signs (DMS) |
| NTCIP 1204 | Object Definitions for Environmental Sensor Stations (ESS) |
| NTCIP 1205 | Object Definitions for Closed Circuit Television (CCTV) Camera Control |
| NTCIP 1207 | Object Definitions for Ramp Meter Control (RMC) Units |
| NTCIP 1208 | Object Definitions for Closed Circuit Television (CCTV) Switching |
| NTCIP 1209 | Data Element Definitions for Transportation Sensor Systems (TSS) |
| NTCIP 1210 | Field Management Stations (FMS) - Part 1: Object Definitions for Signal System Masters |
| NTCIP 1211 | Object Definitions for Signal Control and Prioritization (SCP) |
| NTCIP-DATEX | NTCIP using DATEX |
| NTCIP-SNMPv1 | NTCIP using SNMPv1 |
| NTCIP-SNMPv1 Secure | NTCIP-SNMPv1 Secure |
| NTCIP-SNMPv3 | NTCIP-SNMPv3 |
| NTCIP-STMP | NTCIP using STMP |
| RSE-C2F | RSE - Center to Field Communications |
| RSE-C2F-SNMP | RSE - Center to Field Communications - SNMP |
| RSE-F2F | Roadside Equipment to ITS Roadway Equipment |
| RSEGateway-VehicleDestination | Vehicle Communications via RSEs, Vehicle Destination |
| RSEGateway-VehicleSource | Vehicle Communications via RSEs, Vehicle Source |
| SAE J2354 | Message Set for Advanced Traveler Information System (ATIS) |
| SAE J2735 | Dedicated Short Range Communications (DSRC) Message Set Dictionary |
| SAE J2945/1 | On-Board System Requirements for V2V Safety Communications |
| SAE J2945/2 | Dedicated Short Range Communications (DSRC) Performance Requirements for V2V Safety Awareness |
| SAE J3067 | Candidate Improvements to Dedicated Short Range Communications (DSRC) Message Set Dictionary [SAE J2735] Using Systems Engineering Methods |
| SRC-Legacy | Legacy Short Range Comm Using IEEE 1455 |
| VehicleGateway-CenterSource | Vehicle Cluster from Center |
| Vehicle-On-Board | Vehicle-On-Board |
| WAB-Via-WAID | Wide-Area-Broadcast-Via-WAID |
| WAW-ASN1 | Wide Area Wireless using ASN.1 as encoding method |
| WAW-WWWBrowser-JSON | Wide Area Wireless using JSON as encoding method |
| WAW-XML | Wide Area Wireless using XML as encoding method |
| XML | eXtensible Markup Language |

## Requirements

Requirements were tailored for each new project added to the FTE RITSA. The list requirements is too voluminous to warrant practical display in this report. Table 9 provides a sample list of requirements included in the FTE RITSA.

Table 9 Sample Requirements List

| **Element Name** | **Functional Object** | **Requirement** |
| --- | --- | --- |
| FDOT District TMCs | TMC Basic Surveillance | The center shall monitor, analyze, and distribute traffic images from CCTV systems under remote control of the center. |
| FDOT District TMCs | TMC Regional Traffic Management | The center shall exchange traffic control information with other traffic management centers to support remote monitoring and control of traffic management devices (e.g. signs, sensors, signals, cameras, etc.). |
| FTE Operations Center (Pompano) | TMC Basic Surveillance | The center shall monitor, analyze, and distribute traffic images from CCTV systems under remote control of the center. |
| FTE Operations Center (Pompano) | TMC Regional Traffic Management | The center shall exchange traffic control information with other traffic management centers to support remote monitoring and control of traffic management devices (e.g. signs, sensors, signals, cameras, etc.). |
| FTE Operations Center (Turkey Lake) | TMC Basic Surveillance | The center shall monitor, analyze, and distribute traffic images from CCTV systems under remote control of the center. |
| FTE Operations Center (Turkey Lake) | TMC Regional Traffic Management | The center shall exchange traffic control information with other traffic management centers to support remote monitoring and control of traffic management devices (e.g. signs, sensors, signals, cameras, etc.). |

# Report Summary

This report documents the revisions to the FTE RITSA as part of the major update activities. The FTE RITSA Final Update has been posted to the FDOT Architecture Website for access by stakeholders. The FDOT Architecture Website includes access to the FTE RITSA RAD-IT Database.

Stakeholders are encouraged to provide information about any changes that are necessary to the FTE RITSA content as they are found. The ITS Architecture Change Request Form can be found on the FDOT website under the Resources tab.