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|  | Florida ITS Architecture Support and Maintenance ProjectFinal Statewide ITS Architecture Update Report Version 1.0 |

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# Introduction

This Update Report for the Florida Statewide ITS Architecture (SITSA) identifies the revisions incorporated into the architecture. The purpose of this SITSA Update Report is to document revisions made to the SITSA 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

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

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

Table 1 ARCHITECTURE Updates

| **#** | **Change** | **Log Ref #** | **Actions Taken / Changes Implemented** |
| --- | --- | --- | --- |
| 1 | Revise FDOT WIM Station Interconnection Project.The information should include the following: - MCSAW Field Devices - MCSAW Electronic Bypass Sites - MCSAW Static Sites - MCSAW Central Office - CVIEW - OS/OW PermitThe WIM station interconnection is simply connecting the various MCSAW locations to determine if a commercial vehicle has been previously screened and is compliant to reduce the need for subsequent screening. The additional information flow is between the field locations through MCSAW Central Office. Future connections will include FDACS. | 57 | * Stakeholders: Added FDOT Motor Carrier Size and Weight (MCSAW) Work Unit, Florida Department of Agriculture and Consumer Services.
* Elements: Added CVIEW, Florida Department of Agriculture AgPass System, MCSAW Central System, MCSAW Electronic Bypass Sites, MCSAW Field Devices, MCSAW Static Sites.
* Services: Added CVO08 Smart Roadside and Virtual WIM (FDOT WIM Station Interconnection).
* Interfaces: Updated project information flows.
* Requirements: Added functional requirements.
* Roles and Responsibilities: Added Roles and Responsibilities.
* Standards: Revised standards.
 |
| 2 | Revise FDOT TPAS Project.The information flow should include parking status from the field equipment to the District TMC. The District interconnect should be shown as existing, Turnpike should be shown as planned. Please verify the “Use Profile” and “Traveler Request” information flow from FL511 to Private Travelers. Only parking information should come out of FL511. The information, with the exception of Turnpike, should be existing. | 58 | The CVO05 Commercial Vehicle Parking (FDOT TPAS) service was added during the architecture conversion. The new service resulted revision of all information flows in the project for compatibility. A *parking information* flow was added from the FDOT TPAS element to the FDOT District Transportation Management Centers using SunGuide element. The status of information flows with the exception of flows with the FTE Operations Center (Turkey Lake) and FTE Operations Center (Pompano) elements were revised to *existing* status.  |
| 3 | Revise Commercial Vehicle Origin/Destination Data Collection Project and diagrams. Should this be labeled as all O/D Data Collection not just Commercial Vehicle? | 59 | This project originated as a project scoped to collect Commercial Vehicle origin and destination data using Connected Vehicle roadside equipment. |
| 4 | Revise FDOT CVO Container Theft Check Project. This should also include DACS facilities. Tag data is not being requested from the vehicles, it is being read by roadside devices. In fact, there is no direct communication with the vehicles | 60 | * Removed Commercial Vehicle, Other Commercial Vehicles, FHP CVE Vehicle elements
* Added Commercial Vehicle Containers, Florida Department of Agriculture Interdiction Stations, MCSAW Field Devices elements
* Replaced CVO07 Roadside CVO Safety (FDOT CVO Container Theft Check) service with CVO15 Fleet and Freight Security service
* Interfaces with commercial vehicle elements were removed and the project was focused on the reading of container identification.
* Requirements: Revised requirements.
* Roles and Responsibilities: Revised roles and responsibilities.
* Standards: Revised standards.
 |
| 5 | Revise FDOT CVO Highly Compliant Carriers Bypass Project.In general, it may be best to list all the CVO as MCSAW.* The field equipment should be listed as MCSAW devices, not CAV field equipment. CAV equipment does not integrate directly to the Maintenance Office.
* The Field Equipment does not communicate directly with CVIEW.
* The Interconnect should show the following:
* Field Equipment => MCSAW Weigh Stations => MCSAW Central Office => CVIEW/FHP Vehicles
* The OS/OW Permit system will connect with MCSAW Central Office
* Information Flow:
* Verify the electronic lock data request
* Verify freight equipment information?
* The information from CVIEW should go to the MCSAW Central Office first and then to the CVO Electronic Bypass Sites
* Verify information is flowing from CVIEW to the OS/OW permit system
 | 61 | * Added FDOT Motor Carrier Size and Weight (MCSAW) Work Unit stakeholder
* Removed Generic CAV Stakeholder
* Added MCSAW Central System, CAV Field Equipment elements
* Renamed CVO Electronic Bypass Sites as MCSAW Electronic Bypass Sites
* Revised CVO03 Electronic Clearance (FDOT CVO Highly Compliant Carriers Bypass) service for element changes and associated interface updates
* Requirements: Revised requirements.
* Roles and Responsibilities: Revised roles and responsibilities.
* Standards: Revised standards.
 |
| 6 | Project Update: FDOT CVO Mainline Screening:Information Flow Diagram:* Please verify all information flow from CVIEW to OS/OW Permit System
* Please clarify the “Trigger” information from OS/OW Permit to the Electronic Bypass sites. Only information on the permit is being provided to the Bypass Sites.
* Roadside data message is not flowing from CVIEW to Electronic Bypass Sites
* Commercial Vehicle Permit Information is not flowing from CVIEW to Electronic Bypass Sites. This should be IFTA/IRP, which may be included as the Credentials Information
 | 62 | * Added IRP Clearinghouse element
* Revised information flows per comments including removal of trigger and roadside data message flows
 |
| 7 | Project Update: FDOT CVO Tire Pressure Monitoring:In general, it may be best to list all the CAV as MCSAWThe Generic CAV Stakeholder should be listed as MCSAW Field EquipmentThe information should flow from MCSAW Field Equipment to MCSAW Electronic Bypass SitesInformation Flow: This is only Tire Pressure Monitoring, so only information related to the tires should come from the Vehicles to the Field Equipment and then to the Electronic Bypass Sites. The pass/pull-in is correct. | 63 | * Renamed elements to MCSAW Electronic Bypass Sites and MCSAW Field Devices
* The on-board safety data information flow includes vehicle component information such as tire pressure.
 |
| 8 | Update Service CVO03 Electronic Clearance (Florida CVO Electronic Bypass Systems):* Please verify the flow from the FMCSA CDLIS, I believe it goes to CVIEW and then to the CVO Electronic Bypass Sites.
* Citation data does not flow to the OS/OW permit system.
* Daily site activity data does not flow to the OS/OW permit system.
* Credential and safety status information does not flow between CVIEW and OS/OW.
* All data from FMCSA goes through CVIEW to CVO Sites.
* Commercial Vehicle Violation Notification should go from CVO Sites to FHSMV SmartCop.
* Information is not coming from the Commercial Vehicle to CVO sites, it is coming from roadside equipment
* Electronic screening requests are not being sent to the Commercial Vehicles.
 | 64 | * Removed information flows between Commercial Drivers License Information System (CDLIS) and CVIEW elements.
* Removed *citation* information flow between FDOT OS/OW Permit System and CVO Electronic Bypass Sites elements.
* Removed d*aily site activity data* information flow between CVO Electronic Bypass Sites and FDOT OS/OW Permit System elements.
* Removed *credentials* *status* *information* and *safety status* *information* flows between CVIEW and FDOT OS/OW Permit Systems elements.
* Rerouted information flows from Commercial Drivers License Information System (CDLIS) to CVIEW element.
* Rerouted information flows from Commercial Vehicle element to MCSAW Field Devices element.
* Removed screening event record information flow between Commercial Vehicle element and MCSAW Field Devices element.
 |
| 9 | Update Service CVO03 Electronic Clearance (Florida CVO Permitting):* Counties Cities and Localities can be removed.
* IFTA and IRP should go to FLHSMV only.
* Data flow between all should be reviewed.
* The counties and cities are not sharing data and data is not being shared with them.
* Data from IFTA and IRP does not go to OS/OW Permits
 | 65 | * Removed County and City Overdimension Permit Systems element.
* Removed IFTA Clearinghouse element and IRP Clearinghouse element interfaces with FDOT OS/OW Permit System element.
 |
| 10 | Update Service CVO03 Electronic Clearance (Florida Static WIM):* The title should be adjusted to include both static and WIM, as they are separate instances.
* The OS/OW permit system should be included in the Information Flow Diagrams.
* All data from FMCSA goes through CVIEW to CVO Sites.
* Commercial Vehicle Violation Notification and Daily Site Activity Data should not go from FDOT Scales and Inspection Facilities to SAFER, it should go to CVIEW.
* How does this occur? What data is the scales providing to CVIEW?
* Information is not coming from the Commercial Vehicle to CVO sites, it is coming from roadside equipment
* Electronic Screening Requests and Request Tag Data are not being sent to the Commercial Vehicles.
* Screening Event Records are not being sent to the commercial vehicles.
* Tag data is not coming from the Commercial Vehicle, it is coming from roadside devices.
* Citations (commercial citations from FHP and FDOT do not flow from FDOT Sites to CVIEW.
 | 66 | * Revised title to CVO03 Electronic Clearance (Florida Static Weight and WIM).
* Added FDOT OS/OW Permit System element.
* Removed Safety and Fitness Electronic Report (SAFER) interface with FDOT Scales and Inspection Facilities element.
* Rerouted *commercial vehicle violation notification* and *daily site activity data* information flows to CVIEW element.
* Rerouted all Commercial Vehicle information flows to MCSAW Field Devices.
* Removed *electronic screening requests, request tag data*, *tag data*, and *screening event record* information flows from Commercial Vehicle element interface.
* Removed *citation* information flows to CVIEW element.
 |
| 11 | Update Service CVO03 Electronic Clearance (Florida Virtual WIM):* The data is not coming from Commercial Vehicles, it is coming from roadside devices.
* The current connection is to the FDOT State Maintenance Office in Tallahassee, future connections should include the Scale and Inspection Facilities as Mainline WIM is deployed.

The information flow diagram needs to be updated to include two scenarios:1. Standalone VWIM installations2. Mainline Screening ahead of static scale facilities | 67 | CVO03 Electronic Clearance (Florida Virtual WIM) provides the electronic clearance aspects of the virtual WIM operation. Per stakeholder comments, the information flows from Commercial Vehicles element were removed. A new service, CVO08 Smart Roadside and Virtual WIM (Florida Virtual WIM) was added to address the stakeholder comments. Wireless roadside inspection requires a safety screening capability that employs communications technologies to obtain information from a commercial vehicle that will allow safety screening of the vehicle and its driver. This capability provides for the interrogation at mainline speeds of a commercial vehicle when it has entered a control segment or geofenced area. Vehicle identification and driver information are provided to the roadside unit. The information communicated can be used to verify compliance with safety requirements, allowing a decision to be made regarding whether the vehicle should pull-in to a roadside check station. |
| 12 | Update Service CVO04 Administrative Process (Florida CVIEW - Credentials/Permitting): This appears to be duplicative of the CVO03 Service Package. | 68 | The CVO04 CV Administrative Processes service supports program administration and enrollment and provides for electronic application, processing, fee collection, issuance, and distribution of CVO credential and tax filing. The CVO03 Electronic Clearance service provides for automated clearance at roadside check facilities. There may be common information flows but the objectives of each service are different but complimentary and, in the end, are used together to deliver the overall CVO operation and administration. |
| 13 | Update Service CVO04 Administrative Processes:* Please verify the connection to local agencies.
* There should be a connection from CVIEW to FDOT Central Office CVO for the Commercial Motor Vehicle Review Board.
* I do not know of any local agencies that have information going into CVIEW for OD Permits.
 | 69 | * Removed interface between CVIEW and County and City Overdimension Permit Systems elements.
* Added MCSAW Central System element.
* Added interface between CVIEW and MCSAW Central System elements.
 |
| 14 | Update Service CVO07 Roadside CVO Safety (Container Theft Check): This is no longer valid.  | 70 | The CVO07 Roadside CVO Safety (Container Theft Check) services was replaced in change #4 with CVO15 Fleet and Freight Security (FDOT CVO Container Theft Check) service for its applicability. |
| 15 | Update Service CVO07 Roadside CVO Safety (Roadside Agricultural Interdiction):* The Information flow diagrams need to be reviewed for all data.
 | 71 | * Removed Florida Department of Revenue Database element.
* Revised information flows included in service.
 |
| 16 | Update Service CVO07 Roadside CVO Safety (Safety Inspection):* Please verify the Information Flow data. MCSAW does not request data from commercial vehicles.
* FDOT does not conduct roadside inspections and does not have authority to do so. Again, citations that are written from FDOT and FHP go to SMARTCOP not to FDOT.
 | 72 | * Added FHP CVE Vehicle element and MCSAW Central System elements
* Revised information flows included in service.
 |
| 17 | Update Service TM11 - Road Use Charging: Please verify the nomenclature of this Service. Charging could be construed as electrical? | 73 | Road Use Charging is established nomenclature. Per the comment on electric vehicle charging, ST05 Electric Charging Stations Management is a service that directly addresses electric charging. These are distinct services addressing different scopes and capabilities. |
| 18 | Service Update: VS03 - Situational Awareness;Verify the wrong way vehicle detection from a platooning vehicle. The system such as Peloton has not educated that I am aware of on wrong way detection | 74 | The VS03 Situational Awareness service was replaced by the TM25 Wrong Way Vehicle Detection and Warning (Wrong-Way Driving) service which better defines the Wrong Way Driving service in ARC-IT Version 9.0.  |
| 19 | Service Update: VS16 - Automated Vehicle Operations:Please verify the data for planned and existing connections, there is discrepancy between the Interconnect Diagram and the Information Flow Diagram. | 75 | * The information flows were reviewed and revised as appropriate.
* The interconnect diagram illustrates interconnect status based on the information flows across each interface. When information flow status is mixed on a single interface between elements (existing and planned information flows on the same interface), the interconnect diagram assumes the flow status of the highest priority flow status. For example, an existing flow status is the highest priority so even if planned flows are part of the interface, the interconnect diagram flow status will be displayed as existing status.
 |
| 20 | Update Stakeholders related to Commercial Motor Vehicles:* Need to include Drivewyze and Prepass.
* These systems are only related to Commercial Motor Vehicles.
 | 76 | Drivewyze and Prepass are services used in the MCSAW Electronic Bypass Sites element. These services are noted by name in the element description.  |
| 21 | CVO03 – Electronic Clearance (Florida Credentials System):* Please verify the flow of data out of CVIEW. I believe it comes in from SAFER and goes out to ASPEN, which is not shown.
* The FMCSA Portal where all information go into is MCMIS. SafeStat is no longer used by FMCSA.
 | 77 | * Replaced SafeStat element with MCMIS element.
* Added ASPEN element.
* Revised information flows for element revisions.
 |
| 22 | VS02 - V2V Basic Safety: Please check that the communication should be shown as “planned” as opposed to “existing”. | 78 | * Revised information flow status.
 |
| 23 | Data Exchange Platform (DEP) Updates: * Information Flows
* It is not envisioned that the DEP will communicate directly with district field equipment.
* It will communicate with the traffic management centers, and they will provide CV data (via aggregation software) and will also directly control the roadside equipment. It is not envisioned that the DEP will send out messages over roadside units without the District TMC being in the loop.
* FDOT DIVAS <--> Florida V2X Data Platform Information Flow: traffic images flow should be reversed.
* In some areas the platform is referred to as the data platform and in other areas it is referred to as the data exchange platform. It would be good to be consistent and perhaps always call it the data exchange platform to eliminate confusion.
* Need to add a flow from National Weather Service into the V2X DEP.
* Need to add an element for traffic data sources like HERE and Waze that FDOT has agreements with and the FDOT V2X DEP will be utilizing. Once the element is added, need to add an information flow into the V2X DEP.
* Florida V2X DEP Interconnect and Flow Diagrams: It is suggested that District-specific interconnects which are not SunGuide like District 5's SunStore be included.
 | 111 | * Rename Florida V2X Data Platform element as Florida V2X Data Exchange Platform. Match naming in service titles and element descriptions.
* Removed FDOT District Field Equipment element.
* Removed CAV Field Equipment element.
* Reversed traffic images information flow between DIVAS element and Florida V2X Data Exchange Platform element.
* Added National Weather Service element and an interface with the Florida V2X Data Exchange Platform element.
* Added Private Sector Traveler Info Services element and an interface with the Florida V2X Data Exchange Platform element.
* Added Private Fleet Vehicle Dispatch Systems to Florida V2X Data Exchange Platform Project.
* To maintain simplicity in the architecture regarding the interfaces between the individual District archive systems, such as District 5’s SunStore, created the District SunGuide Data Archive Systems element, a collective element representing and listing all of the District data archiving systems. This will support a common interface development with each District system, minimizing customization of each interface with the DEP.
* Added FDOT District Field Equipment element and the roadway dynamic signage data information flow between FDOT District Transportation Management Centers using SunGuide and FDOT District Field Equipment elements.
 |
| 24 | FDOT Office of Freight Logistics and Passenger Operations stakeholder changed to FDOT Office of Modal Development. | N/A | Renamed FDOT Office of Freight Logistics and Passenger Operations stakeholder to FDOT Office of Modal Development. |
| 25 | CVO03 Florida Credentials System Service: Change service information flow status. | 124 | * Updated status from existing to planned for "credentials information" from CVIEW to ASPEN
* Updated status from existing to planned for "credentials status information" from CVIEW to ASPEN
* Updated status from existing to planned for "safety status information" from CVIEW to ASPEN
* Updated status from existing to planned for "credentials information" from CVIEW to MCMIS Database
* Updated status from existing to planned for "credentials status information" from CVIEW to MCMIS Database
* Updated status from existing to planned for "credentials information" from MCMIS Database to CVIEW
* Updated status from existing to planned for "credentials status information" from MCMIS Database to CVIEW
* Updated status from existing to planned for "credentials information" from CVIEW to Safety and Fitness Electronic Report (SAFER)
* Updated status from existing to planned for "credentials status information" from CVIEW to Safety and Fitness Electronic Report (SAFER)
* Updated status from existing to planned for "safety status information" from CVIEW to Safety and Fitness Electronic Report (SAFER)
* Updated status from existing to planned for "credentials information" from Safety and Fitness Electronic Report (SAFER) to CVIEW
* Updated status from existing to planned for "credentials status information" from Safety and Fitness Electronic Report (SAFER) to CVIEW
* Updated status from existing to planned for "safety status information" from Safety and Fitness Electronic Report (SAFER) to CVIEW
 |
| 26 | CVO03 Florida Electronic Bypass System Service: Change service information flow status. | 125 | * Updated service package name to: CVO03 - Florida Electronic Bypass
* Updated ITS service description to remove “CVO” and reflect updated name on first sentence as follows: "Florida's Electronic Bypass service provides for automated electronic clearance at roadside check facilities."...
* Updated ITS service status from existing to planned
* Updated status from existing to planned for "credentials information" flow from Commercial Drivers License Information System (CDLIS) to CVIEW
* Updated status from existing to planned for "credentials status information" flow from Commercial Drivers License Information System (CDLIS) to CVIEW
* Updated status from existing to planned for "safety status information" flow from CVIEW to MCSAW Central System
* Updated status from existing to planned for "credentials information" flow from FDOT OS/OW Permit System to MCSAW Central System
* Updated status from existing to planned for "credentials status information" flow from FDOT OS/OW Permit System to MCSAW Central System
* Updated status from existing to planned for "commercial vehicle violation notification" flow from FHP CVE Vehicle to MCSAW Central System
* Updated status from existing to planned for "citation" flow from MCSAW Central System to FHP Statewide CAD
* Updated status from existing to planned for "commercial vehicle violation notification" flow from MCSAW Central System to FHP Statewide CAD
* Updated status from existing to planned for "commercial vehicle permit information" flow from MCSAW Central System to MCSAW Electronic Bypass Sites
* Updated status from existing to planned for "weigh-in-motion information" flow from MCSAW Electronic Bypass Sites to MCSAW Central System
* Updated status from existing to future for "commercial vehicle permit information" flow from MCSAW Electronic Bypass Sites to MCSAW Field Devices
* Updated status from existing to planned for "weigh-in-motion information" flow from MCSAW Field Devices to MCSAW Central System
* Removed "citation" flow from MCSAW Field Devices to MCSAW Electronic Bypass Sites
 |
| 27 | CVO03 Florida Permitting Service: Change service information flow status. | 126 | * Updated status from existing to planned for "safety status information" from FDOT OS/OW Permit System to FDOT Scales and Inspection.
* Updated status from existing to planned for "citation" from FDOT Scales and Inspection to FDOT OS/OW Permit System.
* Updated status from existing to planned for "daily site activity data" from FDOT Scales and Inspection to FDOT OS/OW Permit System.
* Updated status from existing to planned for "commercial vehicle violation notification" from FDOT Scales and Inspection to FDOT OS/OW Permit System.
* Updated status from existing to planned for "citation" from FDOT Scales and Inspection to Florida License, Registration, and Fuel Tax System
* Updated status from existing to planned for "commercial vehicle violation notification" from FDOT Scales and Inspection to Florida License, Registration, and Fuel Tax System
* Updated status from existing to planned for "daily site activity data" from FDOT Scales and Inspection to Florida License, Registration, and Fuel Tax System.
* Updated status from existing to planned for "credentials information" from Florida License, Registration, and Fuel Tax System to Safety and Fitness Electronic Report (SAFER)
* Updated status from existing to planned for "credentials status information" from Florida License, Registration, and Fuel Tax System to Safety and Fitness Electronic Report (SAFER)
* Updated status from existing to planned for "safety status information" from Florida License, Registration, and Fuel Tax System to Safety and Fitness Electronic Report (SAFER).
* Updated status from existing to planned for "credentials information" from Safety and Fitness Electronic Report (SAFER) to Florida License Registration and Fuel Tax System
* Updated status from existing to planned for "credentials status information" from Safety and Fitness Electronic Report (SAFER) to Florida License Registration and Fuel Tax System
* Updated status from existing to planned for "safety status information" from Safety and Fitness Electronic Report (SAFER) to Florida License Registration and Fuel Tax System
* Removed "safety status information" from IFTA Clearinghouse to FDOT OS/OW Permit System.
* Updated status from existing to planned for "commercial vehicle violation notification" from IFTA Clearinghouse to FHP Statewide CAD.
* Updated status from existing to planned for "commercial vehicle violation notification" from IRP Clearinghouse to FHP Statewide CAD.
 |
| 28 | CVO03 Florida Static Weigh and WIM Service: Change service information flow status. | 127 | * Updated service package name to: CVO03 - Florida Static Weigh and WIM
* Updated description to remove “CVO” and reflect updated name on first sentence as follows: "Florida's Static Weigh and Weigh in Motion (WIM) service provides for automated clearance at roadside check facilities."...
* Updated status from existing to planned for "safety status information" from CVIEW to MCSAW Central System.
* Updated status from existing to planned for "credentials information" from FDOT OS/OW Permit System to MCSAW Central System.
* Updated status from existing to planned for "credentials status information" from FDOT OS/OW Permit System to MCSAW Central System.
* Updated status from existing to planned for "commercial vehicle violation notification" from FHP CVE Vehicle to MCSAW Central System.
 |
| 29 | CVO04 FDOT WIM Station Interconnection Service: Change service information flow status. | 128 | * Updated ITS service description to simplify first sentence as follows: "FDOT Weigh in Motion (WIM) Station Interconnection service supports program administration and enrollment and provides for electronic application, processing, fee collection, issuance, and distribution of CVO credential and tax filing."...
* Updated status from existing to planned for "safety status information" from CVIEW to MCSAW Central System.
* Updated status from existing to planned for "credentials information" from FDOT OS/OW Permit System to MCSAW Central System.
* Updated status from existing to planned for "credentials status information" from FDOT OS/OW Permit System to MCSAW Central System.
* Updated status from existing to planned for "commercial vehicle permit information" from MCSAW Central System to MCSAW Electronic Bypass Sites.
 |
| 30 | CVO04 Florida CVIEW Credentials Permitting Service: Change service information flow status. | 129 | Remove "compliance review report" from FDOT OS/OW Permit System to Private Fleet Vehicle Dispatch Systems |
| 31 | CVO04 Florida CVIEW Service: Change service information flow status. | 130 | * Updated ITS service description to simplify first sentence as follows: "Florida’s Commercial Vehicle Information Exchange Window (CVIEW) service is one of three services that support program administration and enrollment and provides for electronic application, processing, fee collection, issuance, and distribution of CVO credential and tax filing."...
* Updated status from existing to planned for "safety status information" from CVIEW to MCSAW Central System
 |
| 32 | CVO07 Safety Inspection Service: Change service information flow status. | 131 | * Updated status from existing to planned for "safety status information" flow from CVIEW to MCSAW Central System.
* Updated status from existing to planned for "citation" flow from MCSAW Central System to FHP CVE Vehicle.
* Updated status from existing to planned for "commercial vehicle violation notification" flow from FHP CVE Vehicle to MCSAW Central System.
* Updated status from existing to planned for "safety inspection report" flow from CVIEW to Safety and Fitness Electronic Report (SAFER).
* Updated status from existing to planned for "safety status information" flow from CVIEW to Safety and Fitness Electronic Report (SAFER).
* Updated status from existing to planned for "safety status information" flow from Safety and Fitness Electronic Report (SAFER) to CVIEW.
 |
| 33 | CVO03 Florida CVO Permitting: Change service name and description. | 132 | * Updated service name to CVO03 Florida Permitting Services and removed CVO from service description.
 |

Appendix A: Architecture Maintenance Log (SITSA)

The maintenance log in Table 2 provides the SITSA maintenance items considerations for the update.

Table 2 Architecture Maintenance Log (SITSA)

| **#** | **Date** | **Architecture** | **Source** | **Contact** | **Change** | **Disposition** | **Recommend Maintenance** | **Incorporated** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 57 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Project Update: FDOT WIM Station InterconnectionThe information should include the following:* MCSAW Field Devices
* MCSAW Electronic Bypass Sites
* MCSAW Static Sites
* MCSAW Central Office
* CVIEW
* OS/OW Permit

The WIM station interconnection is simply connecting the various MCSAW locations to determine if a commercial vehicle has been previously screened and is compliant to reduce the need for subsequent screening. The additional information flow is between the field locations through MCSAW Central Office. Future connections will include FDACS | Revise project | Yes | Yes |
| 58 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Project Update: FDOT FDOT TPASThe information flow should include parking status from the field equipment to the District TMC. The District interconnect should be shown as existing, Turnpike should be shown as planned. Please verify the “Use Profile” and “Traveler Request” information flow from FL511 to Private Travelers. Only parking information should come out of FL511. The information, with the exception of Turnpike, should be existing.  | Project revision. Version 9.0 conversion will require additional changes for TPAS.Revise project including changes for service CVO05 Commercial Vehicle Parking which was added during the architecture conversion to ARC-IT version 9.0. | Yes | Yes |
| 59 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Project: Commercial Vehicle Origin/Destination Data Collection Diagrams: Should this be labeled as all O/D Data Collection not just Commercial Vehicle? | Original project scope defined as commercial vehicle centric. | Yes | Yes |
| 60 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Project Update: FDOT CVO Container theft Check:This should also include DACS facilities Tag data is not being requested from the vehicles, it is being read by roadside devices. In fact, there is no direct communication with the vehicles | Project revision. | Yes | Yes |
| 61 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Project Update: FDOT CVO Highly Compliant Carriers Bypass Diagrams:* In general, it may be best to list all the CVO as MCSAW.
* The field equipment should be listed as MCSAW devices, not CAV field equipment. CAV equipment does not integrate directly to the Maintenance Office.
* The Field Equipment does not communicate directly with CVIEW.
* The Interconnect should show the following:
	+ Field Equipment => MCSAW Weigh Stations => MCSAW Central Office => CVIEW/FHP Vehicles
	+ The OS/OW Permit system will connect with MCSAW Central Office
* Information Flow:
	+ Verify the electronic lock data request
	+ Verify freight equipment information?
	+ The information from CVIEW should go to the MCSAW Central Office first and then to the CVO Electronic Bypass Sites
	+ Verify information is flowing from CVIEW to the OS/OW permit system
 | Project revision. | Yes | Yes |
| 62 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Project Update: FDOT CVO Mainline Screening:Information Flow Diagram* Please verify all information flow from CVIEW to OS/OW Permit System
* Please clarify the “Trigger” information from OS/OW Permit to the Electronic Bypass sites. Only information on the permit is being provided to the Bypass Sites.
* Roadside data message is not flowing from CVIEW to Electronic Bypass Sites
* Commercial Vehicle Permit Information is not flowing from CVIEW to Electronic Bypass Sites. This should be IFTA/IRP, which may be included as the Credentials Information.
 | Project revision. | Yes | Yes |
| 63 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Project Update: FDOT CVO Tire Pressure Monitoring:* In general, it may be best to list all the CAV as MCSAW
* The Generic CAV Stakeholder should be listed as MCSAW Field Equipment
* The information should flow from MCSAW Field Equipment to MCSAW Electronic Bypass Sites
* Information Flow: This is only Tire Pressure Monitoring, so only information related to the tires should come from the Vehicles to the Field Equipment and then to the Electronic Bypass Sites. The pass/pull-in is correct.
 | Project revision. | Yes | Yes |
| 64 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO03 Electronic Clearance (Florida CVO Electronic Bypass Systems):* Please verify the flow from the FMCSA CDLIS, I believe it goes to CVIEW and then to the CVO Electronic Bypass Sites.
* Citation data does not flow to the OS/OW permit system.
* Daily site activity data does not flow to the OS/OW permit system.
* Credential and safety status information does not flow between CVIEW and OS/OW.
* All data from FMCSA goes through CVIEW to CVO Sites.
* Commercial Vehicle Violation Notification should go from CVO Sites to FHSMV SmartCop.
* Information is not coming from the Commercial Vehicle to CVO sites, it is coming from roadside equipment
* Electronic screening requests are not being sent to the Commercial Vehicles.
 | Service revision. | Yes | Yes |
| 65 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO03 Electronic Clearance (Florida CVO Permitting):* Counties Cities and Localities can be removed.
* IFTA and IRP should go to FLHSMV only.
* Data flow between all should be reviewed.
* The counties and cities are not sharing data and data is not being shared with them.
* Data from IFTA and IRP does not go to OS/OW Permits
 | Service revision. | Yes | Yes |
| 66 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO03 Electronic Clearance (Florida Static WIM):* The title should be adjusted to include both static and WIM, as they are separate instances.
* The OS/OW permit system should be included in the Information Flow Diagrams.
* All data from FMCSA goes through CVIEW to CVO Sites.
* Commercial Vehicle Violation Notification and Daily Site Activity Data should not go from FDOT Scales and Inspection Facilities to SAFER, it should go to CVIEW.
* How does this occur? What data is the scales providing to CVIEW?
* Information is not coming from the Commercial Vehicle to CVO sites, it is coming from roadside equipment. Electronic Screening Requests and Request Tag Data are not being sent to the Commercial Vehicles.
* Screening Event Records are not being sent to the commercial vehicles.
* Tag data is not coming from the Commercial Vehicle, it is coming from roadside devices.
* Citations (commercial citations from FHP and FDOT do not flow from FDOT Sites to CVIEW.
* FHP conducts the inspection and it is uploaded to FMCSA in to SafetyNet.
 | Service revision. | Yes | Yes |
| 67 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO03 Electronic Clearance (Florida Virtual WIM):* The data is not coming from Commercial Vehicles, it is coming from roadside devices.
* The current connection is to the FDOT State Maintenance Office in Tallahassee, future connections should include the Scale and Inspection Facilities as Mainline WIM is deployed.
* The information flow diagram needs to be updated to include two scenarios:

1. Standalone VWIM installations2. Mainline Screening ahead of static scale facilities | Service revision. | Yes | Yes |
| 68 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO04 Administrative Process (Florida CVIEW - Credentials/ Permitting):* This appears to be duplicative of the CVO03 Service Package.
 | Service revision. | Yes | Yes |
| 69 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO04 Administrative Processes:* Please verify the connection to local agencies.
* There should be a connection from CVIEW to FDOT Central Office CVO for the Commercial Motor Vehicle Review Board.
* I do not know of any local agencies that have information going into CVIEW for OD Permits.
 | Service revision. | Yes | Yes |
| 70 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO07 Roadside CVO Safety (Container Theft Check):* This is no longer valid
 | Service revision. | Yes | Yes |
| 71 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO07 Roadside CVO Safety (Roadside Agricultural Interdiction):* The Information flow diagrams need to be reviewed for all data.
* This graph seems to be for the future, but not sure this is even correct. Needs more input from AG and FHP.
 | Service revision. | Yes | Yes |
| 72 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service CVO07 Roadside CVO Safety (Safety Inspection):* Please verify the Information Flow data. MCSAW does not request data from commercial vehicles.
* FDOT does not conduct roadside inspections and do not have authority to do so. Again, citations that are written from FDOT and FHP go to SMARTCOP not to FDOT.
 | Service revision. | Yes | Yes |
| 73 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Service TM11 - Road Use Charging:* Please verify the nomenclature of this Service. Charging could be construed as electrical?
 | Service revision; a statement in the service description can be included to explain difference. Road Use Charging is a common industry term. Service ST05 addresses Electric Charging Stations Management.  | Yes | Yes |
| 74 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Service Update: VS03 - Situational Awareness:* Verify the wrong way vehicle detection from a platooning vehicle. The system such as Peloton has not educated that I am aware of on wrong way detection
 | Service revision; A new service, TM25 Wrong Way Vehicle Detection and Warning will be added as part of the ARC-IT Version 9.0 conversion. This will supersede VS03 for the purposes of WWVDW. The VS03 Situational Awareness service noted will be removed as a result. | Yes | Yes |
| 75 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Service Update: VS16 - Automated Vehicle Operations:* Further discussion on the future of what the AV CMV’s can do with V2V.
* Please verify the data for planned and existing connections, there is discrepancy between the Interconnect Diagram and the Information Flow Diagram
 | Service revision. It is envisioned that autonomy will be the initial state but as autonomy is established it will be enhanced with connectivity to infrastructure sourced information that will improve autonomous operation. Interconnect and flow discrepancies will be addressed in the diagrams. | Yes | Yes |
| 76 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | Update Stakeholders related to Commercial Motor Vehicles:* Need to include: Drivewyze and Prepass
* These systems are only related to Commercial Motor Vehicles.
 | Inventory revision. | Yes | Yes |
| 77 | 8/31/2020 | SITSA | Review Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | CVO03 – Electronic Clearance (Florida Credentials System):* Please verify the flow of data out of CVIEW. I believe it comes in from SAFER and goes out to ASPEN, which is not shown.
* The FMCSA Portal where all information go into is MCMIS. SafeStat is no longer used by FMCSA.
 | Service revision. | Yes | Yes |
| 78 | 8/31/2020 | SITSA | Change Request Form: FDOT CVO/ MCSAW Group | Marie Tucker / Paul Clark | VS02 - V2V Basic Safety:* Please check that the communication should be shown as “planned” as opposed to “existing”.
 | Service revision. | Yes | Yes |
| 111 | 3/11/2022 | SITSA | Change Request Form: FDOT TEO Office | Raj Ponnaluri / FDOT | Data Exchange Platform (DEP) Updates: * Information Flows
* It is not envisioned that the DEP will communicate directly with district field equipment.
* It will communicate with the traffic management centers, and they will provide CV data (via aggregation software) and will also directly control the roadside equipment. It is not envisioned that the DEP will send out messages over roadside units without the District TMC being in the loop.
* FDOT DIVAS <--> Florida V2X Data Platform Information Flow: traffic images flow should be reversed.
* In some areas the platform is referred to as the data platform and in other areas it is referred to as the data exchange platform. It would be good to be consistent and perhaps always call it the data exchange platform to eliminate confusion.
* Need to add a flow from National Weather Service into the V2X DEP.
* Need to add an element for traffic data sources like HERE and Waze that FDOT has agreements with and the FDOT V2X DEP will be utilizing. Once the element is added, need to add an information flow into the V2X DEP.
 | Revise Project | Yes | Yes |
| 124 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO03 Florida Credentials System: Change service representation to match deployment (diagram provided). | Revise architecture as noted. | Yes | Yes |
| 125 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO03 Florida Electronic Bypass System; details provided in text and diagram. | Revise architecture as noted. | Yes | Yes |
| 126 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO03 Florida Permitting; details provided in diagram. | Revise architecture as noted. | Yes | Yes |
| 127 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO03 Florida Static Weigh and WIM; details provided in text and diagram. | Revise architecture as noted. | Yes | Yes |
| 128 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO04 FDOT WIM Station Interconnection; details provided in text and diagram. | Revise architecture as noted. | Yes | Yes |
| 129 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO04 Florida CVIEW Credentials Permitting; details provided in text and diagram. | Revise architecture as noted. | Yes | Yes |
| 130 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO04 Florida CVIEW; details provided in text and diagram. | Revise architecture as noted. | Yes | Yes |
| 131 | 6/3/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO07 Safety Inspection; details provided in text. | Revise architecture as noted. | Yes | Yes |
| 132 | 8/19/2022 | SITSA | Change Request Form: FDOT CVO | Marie Tucker / FDOT | Architecture Updates for ITS Service: CVO03 Florida CVO Permitting; Change name to CVO03 Florida Permitting Services; Remove "CVO" from service description. | Revise architecture as noted. | Yes | Yes |