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| January 2025 |

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|  | Florida ITS Architecture Support and Maintenance ProjectSITSA Conversion Report(ARC-IT Version 9.3) |

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Document Version Control

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| Author / Action | Submittal Date | Version No. |
| Natalia Marin / Draft Document | December 31, 2024 | A9.3 01/2025 |
| Cliff Heise / QA-QC | January 10, 2025 | A9.3 01/2025 |
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Table of Contents

[1.0 Introduction 4](#_Toc187375621)

[2.0 Description of Changes 4](#_Toc187375622)

[3.0 Architecture Conversion Results 5](#_Toc187375623)

[3.1 Architecture Inventory Elements 5](#_Toc187375624)

[3.2 Architecture Information Flows 5](#_Toc187375625)

[3.3 Architecture Functional Requirements 5](#_Toc187375626)

List of Tables

[Table 1. Conversion Analysis of Functional Requirements 6](#_Toc187375627)

# Introduction

This Architecture Conversion Report records the Florida Statewide ITS Architecture (SITSA) update from its reference in the Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT) Version 9.2 to ARC-IT Version 9.3. There were no updates to the SITSA, so this report addresses notable results from the conversion process.

# Description of Changes

The architecture conversion process uses the Regional Architecture Development for Intelligent Transportation (RAD-IT) software Version 9.2 to convert the architecture to be compatible with ARC-IT Version 9.3. The process includes the following steps to accomplish the conversion.

* Architecture conversion: Conversion features in RAD-IT Version 9.3 convert the architecture database schema to be compatible with RAD-IT Version 9.3 and aligned to reference ARC-IT Version 9.3 content.
* Conversion analysis: Conversion information is produced by RAD-IT for the architecture conversion noting the changes made. The conversion information notes the schema and content changes, such as service splits or consolidations, element divisions, and information flow adjustments. Analysis is required for each converted item to assess the appropriateness of each change for the architecture.
* Architecture content update: The intent of the conversion process was to maintain the alignment of the converted Architecture content to the greatest extent possible with the pre-conversion Architecture content. Element physical object mapping changes, service package changes, information flow additions and adjustments, and the evolution of the standards mappings in ARC-IT Version 9.3 required changes to be made to the Architecture content. Unless it was necessary, no additional changes beyond those required to align the pre-conversion and converted architecture content were made. During the course of the Annual Architecture Maintenance Update, ARC-IT Version 9.2 features that could be considered as additional information to the Architecture will be assessed.
* Architecture website posting: The converted architecture will be posted to the Florida ITS Architecture website.

# Architecture Conversion Results

The SITSA was converted to be compatible with ARC-IT Version 9.3. The following sections highlight the changes made to the architecture as a result of the conversion process.

## Architecture Inventory Elements

No architecture inventory elements were impacted by the conversion process.

## Architecture Information Flows

No architecture information flows were impacted by the conversion process.

## Architecture Functional Requirements

Table 1 below provides conversion results for architecture functional requirements impacted by the conversion process. The table information shows the element impacted, the type of change made, the old functional object, number, and requirement, along with the new functional object, number, and requirement to display the change made.

Table 1. Conversion Analysis of Functional Requirements

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Element Name** | **Change** | **Old Functional Object** | **Old Num** | **Old Req** | **New Functional Object** | **New Num** | **New Req** |
| FHP Vehicle | Modified | EV On-Board En Route Support | 9 | The emergency vehicle shall send the vehicle’s location, speed and direction to other vehicles in the area. | EV On-Board En Route Support | 9 | The emergency vehicle shall send the vehicle's location, speed and direction to a third party provider for distribution to vehicles in the vicinity. |
| Vehicle | Modified | Vehicle Traveler Information Reception | 1 | The vehicle shall receive traveler information including traffic and road conditions, incident information, maintenance and construction information, event information, transit information, parking information, and weather information. | Vehicle Traveler Information Reception | 1 | The vehicle shall receive traveler information including traffic and road conditions, incident information, maintenance and construction information, event information, transit information, parking information, border crossing information, and weather information. |