

Vehicle Infrastructure Integration (VII)

Data Element Dictionary



February 26, 2007
Version 1.0

Booz | Allen | Hamilton

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Acceptance / Approval Page

// // _____ Reviewed by _____
David Cline Date
Quality Assurance

// // _____ Reviewed by _____
Mark Lawrence Date
Deputy Project Manager

// // _____ Approved by _____
Craig Pickering Date
Project Manager

// // _____ Approved by _____
Bill Jones Date
US Department of Transportation

DOCUMENT CHANGE HISTORY

Date	Author	Description
02/16/2006	Booz Allen Hamilton	1.0 Released as part of the Requirement Specifications for VII infrastructure, Version 1.1

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1. INTRODUCTION

This document, the *Vehicle Infrastructure Integration (VII) Data Element Dictionary*, is based on guidance and information provided by the United States Department of Transportation (USDOT), subsequent meetings and discussions, and agreed upon assumptions by the USDOT and Vehicle Infrastructure Integration Consortium (VIIC). Every effort has been made to ensure the content and approach in developing this document reflects available guidance from the USDOT and accurately reflects the overall scope and intent of VII's objectives.

1.1 SCOPE

This document details the formal definitions for terms used in the Interface Requirement Specifications for the VII infrastructure.

2. DATA ELEMENT DICTIONARY

DATA ELEMENT	DEFINITION
Address	A string which allows VII users and services to locate and access one or more VII System components
Advisory Message Activation Time	Time the message becomes active
Advisory Message Duration	Length of time an Advisory Message is valid
Advisory Message ID	An identifier uniquely referencing an Advisory Message
Advisory Message List	A list of Advisory Message identifiers
Advisory Message Payload	A structured grouping containing one or more SAE J2735 formatted messages to be dispatched to RSE Subsystems
Advisory Message Priority	Priority level associated with an Advisory Message
Advisory Message Request Type	An indicator identifying the type of request
Component Type	A unique string used to describe a VII System component type (ex. RSE)
Coordinates Flag	A boolean value indicating whether RSE Subsystem coordinates should be returned for an information request
Destination IP Address	The IP address to send messages
Destination Port	The port to send messages
Elevation	The height of the RSE Subsystem from sea level.
Error Description	Descriptive text detailing the error
Error ID	Error code identifying the type of error
Geographic Region	A defined set of values that together specify a physical geographic area
Latitude	The latitude of an RSE Subsystem
Longitude	The longitude of an RSE subsystem
Political Boundary ID	A unique name which identifies political boundaries within the context of the VII System (ex. Virginia.FFC). Political Boundary IDs may be embedded within Addresses or RSE Subsystem Logical Group Names
Probe Data Element ID	A logical identifier corresponding to the name of a Probe Data Element
Probe Data Element List	A list of Probe Data Element names
Probe Data Message Throttle	A value indicating the percentage of Probe Data Messages to forward
Probe Data Message Version	Version identifier for the SAEJ2735 Probe Data Message specification
Probe Date Element Value	The value of a Probe Data Element
Request ID	An identifier uniquely referencing a request
Response Code	An indicator of the request status
Response Description	Text describing the disposition of a request
RSE Group ID	An alias for one or more RSE Subsystems or RSE Group IDs.
RSE Subsystem ID	A logical identifier for an RSE Subsystem
RSE Subsystem List	A listing of RSE Subsystem IDs

DATA ELEMENT	DEFINITION
Service ID	A common identifier for any of the VII System Services
Status	The current availability of a VII system service or component.
Status	The current up or down status of the RSE Subsystem
Status Flag	A boolean value indicating whether RSE Subsystem status should be returned for an information request (ex. "RSE Functioning," "RSE Down")
Subscription Duration	A value indicating the length of time that a subscription is valid
Subscription ID	A unique identifier of a Probe Data Message Subscription
Subscription ID List	A list of Subscription IDs