

**GENIVI Alliance**

GENIVI Document CS00063

MapViewer

Component Specification

Accepted Version 4.0

**25-01-2017**

**Sponsored by:**

GENIVI Alliance

Y

This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

**Table of contents**

1 Change History [4](#__RefHeading___Toc391907817)

2 Introduction [5](#__RefHeading___Toc391907818)

3 Terminology [6](#__RefHeading___Toc391907819)

4 Requirements [7](#__RefHeading___Toc391907820)

5 Architecture [8](#__RefHeading___Toc391907821)

5.1 Interfaces [8](#__RefHeading___Toc391907822)

5.2 Interaction with other Components [9](#__RefHeading___Toc391907823)

6 API [10](#__RefHeading___Toc391907824)

6.1 D-Bus [10](#__RefHeading___Toc391907825)

6.2 Git Repository [10](#__RefHeading___Toc391907826)

6.3 Naming Convention [10](#__RefHeading___Toc391907827)

6.4 Data Types Convention [11](#__RefHeading___Toc391907828)

6.5 Errors [12](#__RefHeading___Toc391907829)

6.6 Sequence Diagrams [13](#__RefHeading___Toc391907830)

6.6.1 navigation application browses map [13](#__RefHeading___Toc391907831)

6.6.2 navigation application creates map session [14](#__RefHeading___Toc391907832)

6.6.3 navigation application sets center [15](#__RefHeading___Toc391907833)

6.6.4 navigation application sets map zoom by delta [16](#__RefHeading___Toc391907834)

6.6.5 navigation application shows route [17](#__RefHeading___Toc391907835)

6.7 Interfaces [18](#__RefHeading___Toc391907836)

# Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Change** |
| 0.1 | 27 Feb 2012 | Marco Residori (XS Embedded) | Document Created |
| 0.2 | 19 Mar 2012 | Marco Residori (XS Embedded) | Updated sequence diagrams.  Updated *Interfaces* chapter. |
| 0.3 | 21 Mar 2012 | Marco Residori (XS Embedded) | Updated *Interfaces* chapter. |
| 1.0 | 22 Mar 2012 | Marco Residori (XS Embedded) | System Architecture Team (SAT) approval. |
| 2.0 (beta) | 07 Jun 2013 | Marco Residori (XS Embedded) | Updated API description.  API Version 2.0. |
| 2.0 | 17 Jun 2013 | Marco Residori (XS Embedded) | Updated API description.  API fixes: GT-2651.  API Version 2.0 (4*emini-final* tag) |
| 3.0.0 | 21 Jan 2014 | Marco Residori (XS Embedded) | Updated API description.  API Version 3.0.0. |
| 3.0.1 | 22 May 2014 | Marco Residori (XS Embedded) | Updated copyright notes. |
| 3.0.2 | 30 June 2014 | Marco Residori (XS Embedded) | Updated contributors list. |
| 4.0 | 7 Feb 2017 | Philippe COLLIOT (PSA GROUPE) | Refine the document for Franca based API |

# Introduction

This document describes the MapViewer API.

# Terminology

|  |  |
| --- | --- |
| ***Term*** | ***Description*** |
| TargetPoint | Point the camera looks at. If the map viewer is set to follow the car position, it coincides with the vehicle position. |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# Architecture

## Interfaces



## Interaction with other Components



# API

## Git Repository

The MapViewer interfaces can be found in the GENIVI Git repository at:

<https://github.com/GENIVI/navigation/tree/master/api/franca/navigation/mapviewer>

## Sequence Diagrams

### navigation application browses map



### navigation application creates map session



### navigation application sets center



### navigation application sets map zoom by delta



### navigation application shows route



## Interfaces