

**GENIVI Alliance**

GENIVI Document CS00065

MapViewer

Component Specification

Accepted Version 5.0.0

**21-02-2018**

**Sponsored by:**

GENIVI Alliance

true

Accepted

**Abstract:**

This document provides the Component Specification for the MapViewer

**Keywords:**

Navigation, MapViewer

This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.Copyright © 2018, trueBMW Car IT GmbH, Continental Automotive GmbH, PCA Peugeot Citroën, XS Embedded GmbH, TomTom International B.V., Alpine Electronics R&D Europe GmbH, AISIN AW CO.LTD.

All rights reserved.

The information within this document is the property of the true and its use and disclosure are restricted. Elements of GENIVI Alliance specifications may be subject to third party intellectual property rights, including without limitation, patent, copyright or trademark rights (and such third parties may or may not be members of GENIVI Alliance). GENIVI Alliance true not responsible and shall not be held responsible in any manner for identifying, failing to identify, or for securing proper access to or use of, any or all such third party intellectual property rights.true

“”

GENIVI and the GENIVI Logo are trademarks of GENIVI Alliance in the U.S. and/or other countries. Other company, brand and product names referred to in this document may be trademarks that are claimed as the property of their respective owners.

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

http://creativecommons.org/licenses/by-sa/4.0

The above notice and this paragraph must be included on all copies of this document that are made.

GENIVI Alliance

2400 Camino Ramon, Suite 375

**San Ramon, CA 94583, USA**

**Table of contents**

[1Change History 4](#__RefHeading___Toc391907817)

[2Introduction 5](#__RefHeading___Toc391907818)

[3Terminology 6](#__RefHeading___Toc391907819)

[4Architecture 7](#__RefHeading___Toc391907821)

[4.1Interfaces 7](#__RefHeading___Toc391907822)

[4.2Interaction with other Components 8](#__RefHeading___Toc391907823)

[5API 9](#__RefHeading___Toc391907824)

[5.1Git Repository 9](#__RefHeading___Toc391907826)

[5.2Sequence Diagrams 9](#__RefHeading___Toc391907830)

[5.2.1navigation application browses map 9](#__RefHeading___Toc391907831)

[5.2.2navigation application creates map session 11](#__RefHeading___Toc391907832)

[5.2.3navigation application sets center 12](#__RefHeading___Toc391907833)

[5.2.4navigation application sets map zoom by delta 13](#__RefHeading___Toc391907834)

[5.2.5navigation application shows route 14](#__RefHeading___Toc391907835)

[5.3Interfaces 15](#__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 |
| 4.1 | 21 Feb 2018 | Philippe COLLIOT (Groupe PSA) | Align with new version of the 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

* 1. The following pages describe the interfaces of the MapViewer API.