OCIT®

Open Communication Interface for Road Traffic Control Systems

Offene Schnittstellen für die Straßenverkehrstechnik

OCIT-Center to Center

Release notes

OCIT-C_release_notes_V2.0_D01

OCIT Developer Group (ODG)

OCIT - Center to Center

Release notes version 2.0

Document: OCIT-C_release_notes_V2.0_D01

Issued by: ODG & Partner

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Document version

Version Status	Distribution list	Date	Comment
V1.2_R1	PUBLIC	2016-12-16	Basic document for version 2.0
V2.0_D01	ODG internal	2018-03-05	Revision for OCIT-C V2.0_D01
V2.0_A01	**PUBLIC**	**2018-05-31**	**For OCIT-C V2.0 ODG Homepage**

1   Classification

The valid versions of the documents and XSD files at the time of the release are listed in this document. The versions and version numbers for this document represents the top-level version. The valid documentation is to be published on https://www.ocit.org/download.

1.1   Numbering pattern

All OCIT center to center (OCIT-C) specifications are to be identified according to the following pattern:

V.... Version 1 to xxx

A.... Issue 1 to xxx

Example of documents:

OCIT-C_Protocol_V2_A1   *(Version 2, Issue 1.)*

The OCIT-C software modules are to be identified according to the following pattern:

```
version = „vyxx"
```

v: Main version **y**:   secondary version   **xx**:   sequential number

The versions of the XSD files put out independently. The various versions are consolidated in one release.

2 OCIT-C documents

All the OCIT-C documents published by the ODG are listed here.

Documents	
File name and version	**Contents**
OCIT-C_Freigabenotizen_V2.0_A01	Release notes
OCIT-C_Daten_V2.0_A01	Description of data
OCIT-C_Protokoll_V2.0_A01	Description of the protocol
OCIT-C_LSA Versorgungsdaten_V2.0_A01	Description of the TSS supply data

3 OCIT-C Schema

Schema		
File name	**Version**	**Contents**
`binary_container.xsd`	1_D10	Binary data container
`CAM_data.xsd`	1.0	Status information about vehicle
`cctv.xsd`	1_D10	Camera data
`control.xsd`	1_D10	Strategies
`Denm.xsd`	1.0	Risk messages
`detector_ext.xsd`	1_D3	individual data detectors
`environmentsensor.xsd`	1_D10	Weather and environment data
`global.xsd`	1_D11	Common data structure
`infopoint_data.xsd`	1_D10	Signs
`intersection_config_data.xsd`	2002	Intersection configuration data (compliant with configuration data from OCIT-O based controller

		TSS.)
`intersection_config_data_ap_values.xsd`	2001	Data catalog AP values
`intersection_config_data_ap_values_STANDARD.xml`	1.0	Data catalog AP values STANDARD
`intersection_config_data_block_assignment.xml`	18	Block assignment
`intersection_config_data_block_assignment.xsd`	2002	Block assignment
`intersection_config_data_communication.xsd`	1_D10	Communication protocol
`intersection_data.xsd`	1_D14	Intersection control data
`intersection_raw_data.xsd`	2_D1	Intersection raw data
`intersection_spat.xsd`	1.1	Forecast values
`OCIT_Cif.wsdl`	1.0	WSDL
`OCIT_Cimpl.wsdl`	1.0	WSDL
`ocitc.xsd`	1.0	W3C XML schema
`operating_messages.xsd`	1_D11	Operating messages
`parking.xsd`	2_D1	Parking data
`protokoll.xsd`	2_D2	Transfer protocol
`Public_Transport_ExtendedTelegram.xsd`	1.0	PT extended telegram
`Public_Transport_Telegram.xsd`	1_D10	PT telegram
`publictransport_data.xsd`	1_D10	PT passenger information
`publictransport_priority.xsd`	1.0	PT prioritization
`sign.xsd`	1_D10	Sign control
`traffic_data.xsd`	1_D12	Traffic data
`traffic_flow.xsd`	1_D2	Traffic flow
`traffic_messages.xsd`	1_D10	Traffic messages

4 Change overview

4.1 OCIT-C Version 2 Issue A01

The specifications of the OCIT Center to Center version 2.0 interface contains functions that are required for integrating cooperating vehicles into a traffic infrastructure system. This makes it possible in the OCIT system.

- Decentralized Environmental Notification Message (DENM)

  For risk messages (DENM) on the one hand, it is possible to transmit these from the control center to the vehicles. On the other hand, risk messages from the road are collected, filtered, and effectively transmitted to the control center. This provides the user with a necessary overview of the current situation.

- Quality assurance, statistics and messages from floating car data

- Prioritization of public transport and special vehicles based on the cooperative messages

- Cooperative Awareness Message (CAM)

  Flowing traffic can be captured using CAMs. These data are transmitted to the central system in a processed and compressed form.

- Signal Phase and Timing (Spat)

  The CAM messages (sign-on and Spat (acknowledgment) are used to prioritize public transport.

- Topography information (MAP)

to integrate into the traffic management.

As of issue 1 (A01) of the specifications for Center to Center the problems from issue OCIT-C V1.2 were corrected, improvements made and recommendations given on standardizing the behavior of the control centres.

OCIT-C Data V2.0 A01		Comment
3.12	Car-2-X Communication	Newly included

OCIT-C TSS Supply Data V2.0 A01		Comment
3.4.5.1	Data model	The data model for reporting points and reporting section
4.4.1.1	Part A: User supply	Block 5: MAP supply The block contains the intersection's topology data (these data are only transmitted as a data block of data from ETSI (ASN.1 Format))

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