DMS INTERFACE COMPLIANCE TEST FOR:

Centar MCS d.o.o.

XC-Vision

Croatia

Capgemini
***T**echnical **A**ssistance **G**roup*

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1. EXECUTIVE OVERVIEW

This document gives an overview of the results of the tests to check whether the DMS integration complies with the standards of General Motors (GM).

The compliance test has been performed for the ***XC-Vision***, developed by Centar MCS d.o.o. communicates with GM via Exchange 1.1.

Following interfaces were tested against the GM standards during the tests:

- Parts Order Entry (IPA310)
- SADE (IPA812)
- Warranty Claims and Corrections (IWA210)
- Parts Order Acknowledgement (OPA310)
- Vehicle Order Acknowledgement (OVE211)
- MOS Tables for Ex 1.1 (OVE222)
- MOS Tables for Ex 1.1 (OVE223)
- MOS Tables for Ex 1.1 (OVE224)
- Warranty Return Information (OWA030)
- BPI
- TIS and EPC3

The following tested interfaces are compliant with the standards of GM:

- Parts Order Entry (IPA310)
- SADE (IPA812)
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- Vehicle Order Acknowledgement (OVE211)
- MOS Tables for Ex 1.1 (OVE222)
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- Warranty Return Information (OWA030)
- BPI
- TIS and EPC3

2. SCOPE OF THE TEST

2.1. Included in the scope

During the tests TAG verified for below interfaces that the DMS was able to generate the data with the correct record layouts (GM standards) or accepts data in its expected formats (GM standards), with use of both ETCM and double check made manually:

- Parts Order Entry (IPA310)
- SADE (IPA812)
- Warranty Claims and Corrections (IWA210)
- Parts Order Acknowledgement (OPA310)
- Vehicle Order Acknowledgement (OVE211)
- MOS Tables for Ex 1.1 (OVE222)
- MOS Tables for Ex 1.1 (OVE223)
- MOS Tables for Ex 1.1 (OVE224)
- Warranty Return Information (OWA030)
- BPI
- TIS and EPC3

2.2. Not included in the scope

- In depth test of the DMS – User acceptance tests
- Reviewing the DMS user guidelines/documentation
- End-to-end tests

3. TEST ENVIRONMENT

The tests were performed by establishing a remote connection over the public Internet with SSL support from the TAG test facilities to the DMS system using WEBEX application.

Mr. Bojan Vuk guided TAG through the DMS and demonstrated each interface, and performed transactions tests.

TAG team checked the record layouts and communication via ETCM tool, after that it was double checked by manually analyzing each record layout. The DMS system located at the vendor does not have a connection to the GM Intranet.

3.1. Product Identification

XC-Vision DMS Description

The DMS consists of more applications, services and web interfaces. It also uses more databases, some for configuration and model and some for actual useful data. The three main components are: commercial and financial component, workshop component and vehicle component. All of them have more modules. It depends on the dealer demands which modules are actually used.

The name of the entire DMS is ***XC-Vision***.

Module: AutoSalon
Current version: 2.1.1

AutoSalon is a module for vehicle management. It consists of vehicle warehouse management, stock list management (in warehouse and ordered), vehicle sales (quotes, invoices etc.) and customs management. This module has three separate applications. One for dispose and management, one for salesmen (quotes, sales, reservations etc.), and one web application which is allows dealers partners to view dealers stock and buy vehicles from dealer (ex. some used car dealer can view and order dealers cars). It also has a module for automated communication with *Lagermax*.

Module: Servis
Current version: 4.0.7.4

Servis is a module for workshop management. It can admit vehicles for repair make quotes for repair, make work orders and issue invoices for repair and parts, deal with warranties and workshop booking. This module also tracks labor hours and similar.

Module: KOMPO
Current version: 8.5

KOMPO is module for commercial and financial business management. It is used for management of parts and general item warehouses, parts and general item ordering, retail and wholesale and bookkeeping. It has a web module, which allows dealers partners to make orders for parts and other items.

Module: XC-Light
Current version: 8.2

XC-Light is a module for fixed assets management, statistics, trackerpack and similar reporting jobs.

Module: Partneri
Current version: 3.0.4

Partneri is a module for contact management. It tracks data from other modules (who bought what and when) and generates reports, mail merges, labels, e-mails, notifies about birthdays, generates list of phone calls to be made and similar.

Module: WinPlaca
Current version: 8.9.16

WinPlaca is a module for employee management. It handles salaries and other concerned jobs.

Module: MCSGMEX
Current version: 1.0.0.14

MCSGMEX is a module for communication with GM Exchange. It's a service application that monitors *Cyclone Activator's* folders for outbound messages and a database for inbound requests (generated by other applications). It has separate modules (ActiveX libraries) which register themselves for certain transactions within MCSGMEX service registry. These modules do the actual data reading and writing to and from the database. The service only packs and unpacks data located in payload and *mmd* files, performs character counts and UTF-8 conversions.

4. THE TESTS

4.1. Parts Order Entry (IPA310)

4.1.1. Data Supplied

4.1.2. Record Layout

4.1.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

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4.2. SADE (IPA812)

4.2.1. Data Supplied

4.2.2. Record Layout

4.2.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.3. Warranty Claims and Corrections (IWA210)

4.3.1. Data Supplied

4.3.2. Record Layout

4.3.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.4. Parts Order Acknowledgement (OPA310)

4.4.1. Data Supplied

4.4.2. Record Layout

4.4.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.5. Vehicle Order Acknowledgement (OVE211)

4.5.1. Data Supplied

4.5.2. Record Layout

4.5.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.6. MOS Tables for Ex 1.1 (OVE222)

4.6.1. Data Supplied

4.6.2. Record Layout

4.6.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.7. MOS Tables for Ex 1.1 (OVE223)

4.7.1. Data Supplied

4.7.2. Record Layout

4.7.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.8. MOS Tables for Ex 1.1 (OVE224)

4.8.1. Data Supplied

4.8.2. Record Layout

4.8.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.9. Vehicles Wholesales Invoice (OVE320)

4.9.1. Data Supplied

4.9.2. Record Layout

4.9.3. Test Result

The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.10. Vehicles Wholesales Invoice (OVE320)

4.10.1. Data Supplied

4.10.2. Record Layout

4.10.3. Test Result

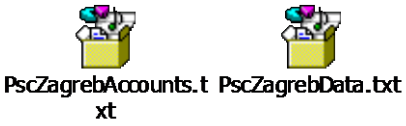
The transaction files were double checked during the compliance tests. They were checked manually in TAG test environment first and then the communication with pre-prod environment using the ETCM tool was performed as well.

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.11. Vehicles Wholesales Invoice (BPI)

4.11.1. Data Supplied



4.11.2. Record Layout

4.11.3. Test Result

The Layouts of the generated files are ok.

This interface was tested **successfully**.

4.12. EPC3 and Global TIS


TIS 2000 test.docx


EPC3 DIRECT.docx


EPC3 PPA.docx


EPC3 SAVED.docx

The interfaces were tested **successfully**.

5. CONCLUSION

The following tested interfaces **are compliant** with the standards of GM:

- Parts Order Entry (IPA310)
- SADE (IPA812)
- Warranty Claims and Corrections (IWA210)
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6. REFERENCE

All records layouts and documentation are available on the TAG website at https://rit.gm.pl.capgemini.com/

Appendix A:Document Control

Version History:

Version	Date	Name	Comments
1	07/11/2008	TAG	Initial release

Document Reviewed By:

Name	Location	Responsibility
Maciej Jeszke	Capgemini	Author
Hubert Gorbacewicz	Capgemini	Reviewer
Krzysztof Skowron	Capgemini	Publisher