DMS INTERFACE COMPLIANCE TEST FOR:

Systems Design Software Ltd., Autoview Version V6.04

Application	TVA Status	Transaction
Parts Order Entry	Certified	IPA310
Parts Order Acknowledgement	Certified	OPA310
EPC3 Integration Services	Certified	Active XML Web
TIS Integration Services	Certified	
RIM Invoices & Inventory	Certified	IPA611
Vehicle Order Acknowledgement	Certified	OVE211
Vehicle Wholesales Invoice	Certified	OVE320
Web Parts Locator	Certified	IPA511
Warranty Claims and Corrections	Certified	IWA210
Warranty Return Information	Certified	OWA030
SADE	Certified	IPA812
BPI Trackerpac	Certified	

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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 DMS developed by Systems Design Software Ltd. communicating with GM via Exchange 1.1.

Following interface was tested against the GM standards during the compliance test interface:

- Parts Order Entry (IPA310)
- Parts Order Acknowledgement (OPA310)
- EPC3 Integration Services (XML – Web)
- TIS2000 Integration Services

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

- Parts Order Entry (IPA310)
- Parts Order Acknowledgement (OPA310)
- EPC3 Integration Services (XML – Web)
- TIS2000 Integration Services

2. SCOPE OF THE TEST

2.1. Included in the scope

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

- Parts Order Entry (IPA310)
- Parts Order Acknowledgement (OPA310)

We have also tested DMS ability to work with interface provided by **EPC3** and **TIS2000**.

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 testing.

3. TEST ENVIRONMENT

Tests were performed by establishing a remote connection over the public Internet from the TAG test facilities to the DMS system using Webex.
Mr. Ray Hinds (supplier) guided TAG through the DMS and demonstrated each interface.
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

During the tests, we used DMS is Autoview Version V6.04 developed by Systems Design Software Ltd.

4. THE TESTS

4.1. Parts Order Entry (IPA310)

4.1.1. Data Supplied

data supplied   mmd file   answerback OK

4.1.2. Record Layout

IPA310

4.1.3. Test Result

During certification with use of ETCM tool and for double check in TAG test lab, files were checked and communication with pre-prod environment with use of ETCM was performed.

The Layout of the generated files is ok.

This interface test was tested **successfully**.

4.2. Parts Order Acknowledgement (OPA310)

4.2.1. Data Supplied

received data   mmd file   answerback OK

4.2.2. Record Layout

OPA310

4.2.3. Test Result

During certification with use of ETCM tool and for double check in TAG test lab, files were checked and communication with pre-prod environment with use of ETCM was performed.

The Layout of the generated files is <u>ok.</u>

This interface test was tested **successfully**.

4.3. EPC3 Integration Services (ActiveX)

4.3.1. Test executed

Autoview fully integrates with the EPC3 as per the GME DMS Interface Business Process Document. The four functions are described below.

- When creating a Repair Order (Job) a vehicle can be added to the Vehicle Registration table or can be selected from the Vehicle Registration table. The Vehicle Registration table holds the Vin No. The EPC3 can be launched from the Repair Order tool bar by selecting the 'EPC3' Icon and Autoview will pass the Vin No. to EPC3. The EPC3 will filter the operations via the Vin No.
- Within the EPC3 Parts can be added to a Shopping List and numerous shopping list can be saved via the 'Save the current list' icon and naming the Shopping List. The Saved Shopping Lists are automatically retrieved by Autoview and are viewable within Autoview by selecting the Shopping List option within the menus.
- Shopping Lists can automatically be sent to the DMS without Saving by selecting the Integration Option on the EPC3 toolbar and selecting the 'Send Shopping List to Selected Service' option. These Shopping Lists are readily viewable with the Autoview DMS by selecting the Pick List option within the menus.
- When parts are added to the Shopping List within EPC3 (whether launched from within the Autoview DMS or on standalone launch) the parts price and availability are immediately retrieved from the Autoview DMS.

4.3.2. Test Result

This interface test was tested **successfully**.

4.4. TIS2000 Integration Services

4.4.1. Test executed

When creating a Repair Order (Job) a vehicle can be added to the Vehicle Registration table or can be selected from the Vehicle Registration table. The Vehicle Registration table holds the Vin No. The TIS2000 can be launched from the Repair Order tool bar by selecting the 'Operations' Icon and Autoview will pass the Vin No. to TIS2000. The TIS2000 will filter the operations via the Vin No. Labour Operations can be selected and added to the Time Allowance. The Labour operations are then imported into the appropriate Repair Order in Autoview. These Labour operations are printed on the Repair Order (Job) Card and are also viewable and amendable within the Repair Order. The Repair Order Print is attached below:

RepairOrder.txt

4.4.2. Test Result

This interface test was tested **successfully**.

5. CONCLUSION

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

- Parts Order Entry (IPA310)
- Parts Order Acknowledgement (OPA310)
- EPC3 Integration Services (XML – Web)
- TIS2000 Integration Services

6. REFERENCE

All record layout documentation is available on the TAG website at
http://tva.gm.be.capgemini.com/home.nsf

<table>
<tr><td colspan="2">Capgemini
Technical Assistance Group</td></tr>
<tr><td></td><td>http://tva.gm.be.capgemini.com/home.nsf</td></tr>
<tr><td>Uniwersytecka 13</td><td>tag.pl@capgemini.com</td></tr>
<tr><td>40-007 Katowice</td><td>Tel. + 48 32 769 3120</td></tr>
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</table>

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The compliance test has been performed for the DMS developed by Systems Design Software Ltd. communicating with GM via Exchange 1.1.

Following interface was tested against the GM standards during the compliance test interface:
- RIM Invoices & Inventory (IPA611)
- Vehicle Order Acknowledgement (OVE211)
- Vehicles Wholesales Invoice (OVE320)
- Web Parts Locator (IPA511)

The following tested interfaces are compliant with the standards of GM:
- RIM Invoices & Inventory (IPA611)
- Vehicle Order Acknowledgement (OVE211)
- Vehicles Wholesales Invoice (OVE320)
- Web Parts Locator (IPA511)

8. SCOPE OF THE TEST

8.1. Included in the scope

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

- RIM Invoices & Inventory (IPA611)
- Vehicle Order Acknowledgement (OVE211)
- Vehicles Wholesales Invoice (OVE320)
- Web Parts Locator (IPA511)

8.2. Not included in the scope

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

9. TEST ENVIRONMENT

Tests were performed by establishing a remote connection over the public Internet from the TAG test facilities to the DMS system using Webex.
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9.1. Product Identification

During the tests, we used DMS is Autoview Version V6.04 developed by Systems Design Software Ltd.

10. THE TESTS

10.1. RIM Invoices & Inventory (IPA611)

10.1.1. Data Supplied

data supplied

mmd file

answerback OK

10.1.2. Record Layout

IPA611

10.1.3. Test Result

During certification with use of ETCM tool and for double check in TAG test lab, files were checked and communication with pre-prod environment with use of ETCM was performed.

The Layout of the generated files is <u>ok.</u>

This interface test was tested **successfully**.

10.2. Vehicle Order Acknowledgement (OVE211)

10.2.1. Data Supplied

received data   mmd file   answerback sent OK

10.2.2. Record Layout

OVE211

10.2.3. Test Result

During certification with use of ETCM tool and for double check in TAG test lab, files were checked and communication with pre-prod environment with use of ETCM was performed.

The Layout of the generated files is <u>ok.</u>

This interface test was tested **successfully**.

10.3. Vehicles Wholesales Invoice (OVE320)

10.3.1. Data Supplied

received data   mmd file   answerback sent OK

10.3.2. Record Layout

OVE320

10.3.3. Test Result

During certification with use of ETCM tool and for double check in TAG test lab, files were checked and communication with pre-prod environment with use of ETCM was performed.

The Layout of the generated files is <u>ok.</u>

This interface test was tested **successfully**.

10.4. Web Parts Locator (IPA511)

10.4.1. Data Supplied

supplied data   mmd file   answerback OK

10.4.2. Record Layout

IPA511

10.4.3. Test Result

During certification with use of ETCM tool and for double check in TAG test lab, files were checked and communication with pre-prod environment with use of ETCM was performed.

The Layout of the generated files is <u>ok.</u>

This interface test was tested **successfully**.

11. CONCLUSION

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

- RIM Invoices & Inventory (IPA611)
- Vehicle Order Acknowledgement (OVE211)
- Vehicles Wholesales Invoice (OVE320)
- Web Parts Locator (IPA511)

12. REFERENCE

All record layout documentation is available on the TAG website at
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The compliance test has been performed for the DMS developed by Systems Design Software Ltd. communicating with GM via Exchange 1.1.

Following interface was tested against the GM standards during the compliance test interface:
- Warranty Claims and Corrections (IWA210)
- Warranty Return Information (OWA030)
- SADE (IPA812)
- BPI

The following tested interfaces are compliant with the standards of GM:
- Warranty Claims and Corrections (IWA210)
- Warranty Return Information (OWA030)
- SADE (IPA812)
- BPI

14. SCOPE OF THE TEST

14.1. Included in the scope

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

- Warranty Claims and Corrections (IWA210)
- Warranty Return Information (OWA030)
- SADE (IPA812)
- BPI

14.2. Not included in the scope

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

15. TEST ENVIRONMENT

Tests were performed by establishing a remote connection over the public Internet from the TAG test facilities to the DMS system using Webex.
Mr. Ray Hinds (supplier) guided TAG through the DMS and demonstrated each interface.
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.

15.1. Product Identification

During the tests, we used DMS is Autoview Version V6.04 developed by Systems Design Software Ltd.

16. THE TESTS

16.1. Warranty Claims and Corrections (IWA210)

16.1.1. Data Supplied

supplied data   mmd file   answerback OK

16.1.2. Record Layout

IWA210

16.1.3. 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**.

16.2. Warranty Return Information (OWA030)

16.2.1. Data Supplied

received data   mmd file   answerback sent OK

16.2.2. Record Layout
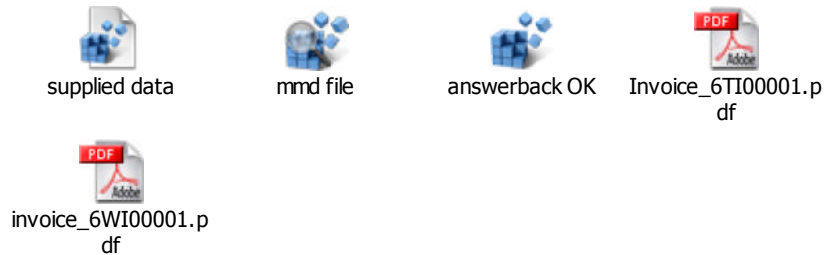
OWA030

16.2.3. 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 <u>ok.</u>

This interface was tested **successfully**.

16.3. SADE (IPA812)

16.3.1. Data Supplied

supplied data

mmd file

answerback OK

Invoice_6TI00001.p
df

invoice_6WI00001.p
df

16.3.2. Record Layout

IPA812

16.3.3. 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**.

16.4. BPI

16.4.1. Data Supplied

payload.txt   Charts of accounts

16.4.2. Record Layout

b2b dms file spec
v1_3.pdf

16.4.3. Test Result

The file generated by the DMS was saved to the local hard disk. No automatic process was available to write the data into the BPI website directly.
The user has to manually transfer the data file and the mapping file (charts of accounts) into the BPI website.

The Layout of the generated file is ok.

This process was tested **successfully**.

17.CONCLUSION

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

- Warranty Claims and Corrections (IWA210)
- Warranty Return Information (OWA030)
- SADE (IPA812)
- BPI

18.REFERENCE

All record layout documentation is available on the TAG website at
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