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***EDMopenSimDM™***

**R11.1**

## **Release Notes**



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## Document revision history

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11	Final delivery	final	2015-10-07	JH	IN
11.1	Updated EDMinside license in VCollab	final	2015-10-25	JH	IN

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This software is owned by Jotne EPM Technology AS.

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## 1 Introduction

### 1.1 Objective

Jotne EPM Technology AS develops and sells as part of their product suite *EXPRESS Data Manager™* (EDM) the following products to support simulation and engineering analysis activities:

1. Simulation data management collaboration server, *EDMopenSimDM™*
2. AP209 C++ Application Programmers Interface, *EDMinterface(C++/AP209)™*
3. Converter from NASTRAN to AP209, *EDMconverter™ (NASTRAN-to-AP209)*
4. Converter from Abaqus to AP209, *EDMconverter™ (Abaqus-to-AP209)*

These release notes cover item #1. This document describes release 11.1 (R11).

The following has been changed since R10.4:

- Moved from EDM5 to EDMsix
- Removed the need of a SimDM AppServer
- Updated version of VCollab suite with updates of Presenter, AP209tocax converter and VMoveCAE
- Corrected bugs in client functionality
- Enabled addition of servers through client functionality (instead of editing of a configuration file)
- Updated executables Converter.exe and MapToAndFromAP209e2
- The EDMopenSimDM server requires Java version 1.8, JDK or JRE to be installed on your machine.

The following has been changed since R11:

- Added updated EDMinside license to VCollab AP209 to cax converter (valid until end of 2016).
- Updated client and server installers for smoother installations.

### 1.2 Documentation

Table 1: Related documentation

Ref	Description	Rev	Date
[1]	EDMopenSimDM Application - System Installation Guide EDMopenSimDM_R11_Installation_guide.pdf	11	2015-10-16 svn 5747
[2]	EDMopenSimDM Browser - Reference Manual EDMopenSimDM_R11_Reference_manual.pdf	11	2015-10-25 svn 5762

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Ref	Description	Rev	Date
[3]	EDMopenSimDM Application - Usage Guide EDMopenSimDM_R11_Usage_guide.pdf	11	2015-10-14 svn 5763
[4]	Open Simulation Data Management – Product sheet Jotne Open Simulation Data Management.pdf		2013-06-06
[5]	EDM documentation, EDMassist <a href="http://edmserver.epmtech.jotne.com/EDMAssist/WebHelp/EDMAssist.htm">http://edmserver.epmtech.jotne.com/EDMAssist/WebHelp/EDMAssist.htm</a>	5.2	Any
[6]	ISO/CD 10303-209ed2 AP209_AIM_lf.exp	WG12N2 617 + AM1396 (collection n) from SMRLv4r c10	2012-10-18

### 1.3 Definitions, Acronyms and Abbreviations

Abaqus™	Abaqus Unified FEA software suite for finite element analysis (FEA) and computer-aided engineering (CAE), now under the Dassault Systems Simulia portfolio
AP209	ISO/CD 10303-209ed2
API	Application Programming Interface
BIC	<b>B</b> ug <b>Z</b> ero <b>I</b> ncident <b>C</b> ode. All reported errors or inconveniences in the software will be given a BIC. Errors reported through Jotne Support will in addition have an SRN assigned.
CAD	Computer-Aided Design
CAE	Computer-Aided Engineering
CO	<b>C</b> hange <b>O</b> rders. All issues related to requests for development of new functionality not covered in the original specification, will in addition to an SRN be identified with a CO number.
CM	<b>C</b> onfiguration <b>M</b> anagement
ECN	Engineering Change Note
EDM	<i>EXPRESS Data Manager</i> ™, software product of Jotne EPMT
EPMT	Jotne <b>EPM</b> Technology AS
EXPRESS	Data modeling language, defined in ISO 10303-11
FEA	Finite Element Analysis
ISO	International Organization for Standardization

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ISO 10303	Industrial automation systems and integration - Product data representation and exchange
ISO 10303-11	Industrial automation systems and integration - Product data representation and exchange - Part 11: Description methods: The EXPRESS language reference manual
ISO 10303-21	Industrial automation systems and integration - Product data representation and exchange: Implementation methods: Clear text encoding of the exchange structure
ISO 10303-209	Industrial automation systems and integration - Product data representation and exchange - Part 209: Application protocol: Multidisciplinary Analysis and Design; in this context this is the CD-version of edition 2
Jotne	Jotne EPM Technology AS
NA	Not Applicable
NASTRAN™	A finite element analysis (FEA) program that was originally developed for NASA
OpenSimDM™	Open Simulation Data Manager, a Jotne product within the EXPRESS Data Manager suite
SRN	<b>S</b> ervice <b>R</b> equest <b>N</b> umber. Each case that is addressed through the EPMT Support function is assigned a SRN of the form Eyyyymmdd-nn. (E.g. E20070212-01). All e-mails and other communication concerning each service request are identified with its SRN for traceability and stored in EPMT's Support Log. SRNs can be related to requested changes or to report bugs. Changes will have CO number as an additional identifier. Bugs may have BIC number as an additional identifier.
STEP	Standard for the Exchange of Product Model Data

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## 2 Released software

The items in Table 2 are released as part of this delivery.

Table 2: Released software

<b>Component</b>	<b>Of Product</b>	<b>Version</b>
<i>EDMopenSimDM™</i> client	<i>EDMopenSimDM™</i>	0.2.9.3
Client installer with VCollab	<i>EDMopenSimDM™</i> client	0.2.9.3 svn5753
<i>EDMopenSimDM™</i> server	<i>EDMopenSimDM™</i>	R11
Server installer	<i>EDMopenSimDM™</i> server	5.5.3.5 svn5758
MapToAndFromAP209e2_BOM (export to and import from AP209ed2 for all user-defined data)	<i>EDMopenSimDM™</i> client/server application	R11, svn5710
EDMopenSimDMobjectLibrary.dll (AP209ed2 text queries)	EXPRESS Data Manager <i>%EDM_HOME%\bin\EDMopenSimDM_bin</i>	R11
Converter.exe (reads and writes zip-files with all EDMopenSimDM user-defined data; calls MapToAndFromAP209e2)	<i>EDMopenSimDM™</i> client/server application <i>%EDM_HOME%\bin\EDMopenSimDM_bin</i>	R11, svn5712

### 3 Required Software

Table 3: Required software

Component	Product	Version
Operating System	MS Windows	7
DBMS, data conversion	EXPRESS Data Manager (EDM)	EDMsix.1.0100.14
edmikit600_client.dll (used by MapToAndFromAP209e2)	EXPRESS Data Manager	EDMsix.1.0100.14
3D visualization	VCollab Presenter	2013, 64 bit, Release R2, File Version 4.8.214.825  2014-08-25  VCollab Presenter 2013_4.8.214.825_Win64
STEP tessellation	VCollab AP209toCax64	2015-10-16  VCollab Suite 2013_8.42.2013_Win64_052 914
Native tessellations	Vcollab VMoveCAE	2013 R2 2.1.214.509 (64-bit)  VCollab Suite 2013_8.42.2013_Win64_052 914
Issues tracking tool	BugZero	

### 4 System changes

This chapter describes changes to *EDMopenSimDM™* since the previous release R10.4 .

#### 4.1 Server installer

- The EDMopenSimDM server is installed by running EDMopenSimDM\_Server.exe. A part of this server is a Tomcat web server. It acts as a front-end for web services between EDMopenSimDM client and server. The servlets used under tomcat requires Java version 1.8, JDK or JRE to be installed on your machine. If you have other Java versions on your machine there is a bug in the installer that results in wrong Java reference in the server start and stop scripts  
".\Open\_SimDM\_Server\EDMproducts\EDMserver\start\_SimDMserver.cmd" and "start\_SimDMserver.cmd". If you need to keep these other Java versions these scripts can easily be modified manually.



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- After having assured that you have Java 1.8 on your machine start the installer. The installer installs 3 modules: 1) Express Data Manager (EDM) database and software development tools, 2) VCollab visualization tool and 3) the EDMopenSimDM server.
- If you start the installer from a mapped folder, you may get an error message saying that the path does not exist. Moving the installer to a non-mapped folder solves this problem.
- Running EDM database and software development tools requires that you install license keys on your machine by the license installer that is launched during the installation process.

#### **4.2 Client installer**

- The EDMopenSimDM server is installed by running EDMopenSimDM\_client\_Setup.exe .
- You will be asked whether to install also VCollab software. This is the VCollab Presenter, which is run locally. It is recommended to use this option if you want to view 3D models of STEP-files, NASTRAN-files or other types of files that are supported by VCollab (see <http://vcollab.com/>).

#### **4.3 Update of EDM**

- The underlying *EDMserver* software has been replaced by *EDMsixServer*, that is, edmsix.1.100.14 .
- The EDM appserver specific for EDMopenSimDM has been incorporated into the EDM core product.

#### **4.4 Bug fixes in VCollab Suite**

- Included newer version of VCollab suite with updates of Presenter, AP209tocax converter and VMoveCAE.
- For list of changes, see VCollab release notes.
- Updated EDM license in VCollab AP209toCax64.

#### **4.5 MapToAndFromAP209e2\_BOM**

- Updated to version R11.01.

### **5 Installation**

If you have an *EDMopenSimDM* installation already, uninstall both EDM and VCollab. Then run the new installers for server and client according to the installation guide [1]. You may reuse an already existing *EDMopenSimDM* database.

Else, install *EDMopenSimDM* from scratch.

Do not forget to update the VCollab installation folder with your VCollab license. Such license is not included in the installers.

Finally reboot your system.

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## 6 Backward compatibility issues

Archives of R9 and earlier cannot be imported.

## 7 Testing

Jotne has run this release through its in-house regression tests; deviations have been recorded and are listed in chapter 8.

## 8 Known issues

*EDMopenSimDM:*

- 1) EDMopenSimDM server requires Java 1.8.
- 2) Text queries may give empty results because of a problem in EDMsix.1.0100.14.
- 3) When importing a model from an exported package and choosing the option "AP209" the following data will not be imported:
  - a. Properties
  - b. Descriptions
  - c. Approval types
  - d. Methods

Work-around: Use the import-option "SIMDM MASTER".

- 4) The bdf-files that come with the demo database need to be downloaded and re-imported to view them through VCollab.
- 5) Bdf-files that do not contain nodes and elements cannot be converted to VCollab cax-format; there is simply no geometry in the file. This is currently reported as an Error with a pop-up window. "Open Log" in that window will among others show this text: "message : No nodes or elements defined".
- 6) File extensions management: For the .pdf , .doc , .ppt , jpg and .xls file types Undefined is shown in the Type column. This has no consequence, but may irritate the user. (BugZero #437)
- 7) Menu item Help>Help (context sensitive help) is not implemented, yet.
- 8) Approval definitions and assigned approvals cannot be edited. (BugZero #414)
- 9) Property definitions and assigned properties cannot be edited. (BugZero #419 and #420)