



# JOTNE EPM TECHNOLOGY

*EXPRESS Data Manager™*  
Version 5.0.302  
Release Notes

**EXPRESS**  
*Data Manager*



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## 1 Introduction

This release contains *EXPRESS Data Manageri* version 5.0.302.8 for Windows, which is a continuation of version 5.0.302.7.

This version of *EXPRESS Data Manageri* is using *EDMdatabasei* version **5201**. If you are using an older version of the *EDMdatabasei* and your databases shall be used with *EXPRESS Data Manageri* version 5.0.302, they **must** be upgraded. Please see section *Backward Compatibility*.

The *EDMstepReaderi* of version 5.0.302 of *EXPRESS Data Manageri* handles reading of STEP Files more efficiently.

The performance of client/server model handling is improved.

*EXPRESS Data Manageri* version 5.0.302.4 was the first official release of version 5.0.302. Bug fixed updates of this version have update numbers appended to the version number, e.g. 5.0.302.6, 5.0.302.7, 5.0.302.8, ð You find a list of the corrected bugs for this update in section [Corrected Bugs](#).

## 2 New Functionality

This section describes the new functionality introduced with *EXPRESS Data Manageri* version 5.0.302.

### 2.1 Improved *EDMstepReaderi* Performance

The *EDMstepReaderi* performance has been improved, especially for big step files. If the **USER\_CONTROLLED\_INVERSE** option is set, no aggregates will be used for inverse attributes and the speed could be increased by a factor of five. In *EXPRESS Data Manageri* version 5.0.302, all known *EDMstepReaderi* errors have been corrected.

### 2.2 New option in Write XML File

New option, **WORKING\_DRAFT\_VERSION**, is added to enable writing XML according to the old ISO10303-28 format. This option is available in the *EDMsupervisor* command *Data>XML>Write XML Document (P28e2)* and in the *EDMinterface* /C API functions `edmiWriteXMLFile()`, `edmiWriteXMLFileEx()` and `edmiRemoteWriteXMLFile()`.

### 2.3 New handling of open models

The handling of models in the *EDMserveri* has been improved to speed up *EDMwebServicesi* and model access. Open models will not be closed until it is necessary.

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## **2.4 First version of *EDMremoteDebugger!* implemented**

The first version of the *EDMremoteDebugger!* is implemented for internal use in release 5.00.0302.07. This debugger will be documented and completed in next release.

Also a new xpf-function named *xpfGetModelProperties()* is implemented.

## **3 Backward Compatibility**

### **3.1 *EDMdatabase!***

*EXPRESS Data Manager!* version 5.0.302 has a new *EDMdatabase!* version, version 5201.

*EDMdatabases!* created with *EXPRESS Data Manager!* versions between 5.0.101 and 5.0.301 have version number 5100. If you are upgrading an *EDMdatabase!* of version 5100 to version 5201, you should first install *EXPRESS Data Manager!* version 5.0.301.6 and use this version for dumping the *EDMdatabase!* .

To dump an *EDMdatabase!* to a folder on your file system, use the *EDMsupervisor!* command *Database>Dump*. The name of the dump directory will be generated from the parameters given in the Dump command:

*<Dump directory path> \EDMdump\_<Database> \_<Dump name>*

When the *EXPRESS Data Manager!* version 5.0.302 is installed the database dump can be restored with the *EDMsupervisor!* command *Database>Restore*.

If you are upgrading from *EXPRESS Data Manager!* version 5.0.100 or older, populations and schemata in your existing *EDMdatabase!* must be dumped to STEP and EXPRESS files and restored back into a new *EDMdatabase!* created by *EXPRESS Data Manager!* version 5.0.302. The old *EDMdatabase!* dump can be restored into the new database with the *EDMsupervisor!* command *Database>Restore Old Database Dump*. For older versions of *EDMdatabase!* please refer to separate *Installation guide [2]*.

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## 4 *EDMdatabase!* configuration

*EXPRESS Data Manager!* version 5.0.302 uses the following *EDMdatabase!* configuration:

Max model size: 4.2 Gbytes

Max number of active models in the *EDMdatabase!* is 128.

Max number of instances in the *EDMdatabase!* is 33.6 millions.

All versions of *EXPRESS Data Manager!* are configured for holding a predefined number of active models. This is a fixed property for a given version of *EXPRESS Data Manager!*. The following configurations may be generated on request:

Active Models	Instances per model	Minimum EDM_DB_BLOCK_SIZE
2048	2.1 million	1024
1024	4.2 million	1024
512	8.4 million	1024
256	16.8 million	1024
<b>128</b>	<b>33.6 million</b>	<b>2048</b>
64	67.2 million	2048
32	134.6 million	2048

*EXPRESS Data Manager!* uses a configurable *EDMdatabase!* block size. This is specified with the configuration parameter **EDM\_DB\_BLOCK\_SIZE** and must be set before the *EDMdatabase!* is created. Changing this configuration parameter requires a complete Dump/Restore of the *EDMdatabase!* populations and schemata. **EDM\_DB\_BLOCK\_SIZE** has the following legal values in bytes: 1024, 2048, 4096, 8192 and 16384.

A build of *EXPRESS Data Manager!* version 5.0.302.6 and 5.0.302.7, with a maximum of **512** active models is also available on request (edm5.00.0302.06.512mod.exe).

## 5 System availability

*EXPRESS Data Manager!* version 5.0.302 is only available on WINDOWS platforms.

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## 6 Documentation

<b>Ref.</b>	<b>Description</b>	<b>Rev.</b>	<b>Date.</b>
[1]	Documentation File: <dir>:\edm\edm5.00.0302.08\help\index.html	5.0.302	06.03.2009
[2]	Installation Guide File: EDM50_Installation_guide_a2.doc	1.2	15.11.2007
[3]	EDMdesktop(ifc) user guide (C / Java) File: EDMdesktopIFC_UserGuide_C.pdf File: EDMdesktopIFC_UserGuide_Java.pdf	5.0.302	11.11.2009
[4]	EDMserver install guide File: EDMserver_InstallGuide_C.pdf	5.0.302	11.11.2009
[5]	EDMwebServices User Guide File: EDMwebServices User Guide.pdf	5.0.302	11.11.2009

## 7 Corrected Bugs

All reported bugs are assigned a unique id, *BIC*<sup>1</sup>, as they are registered in Jotne EPM Technology's bug database.

### 7.1 Bugs corrected in version 5.0.302.4

<b>BIC</b>	<b>EDM Module</b>	<b>Description</b>
1122	<i>EDMdatabasei</i>	EDMdatabasei back up Scheduler sometimes calculates 23 hours a day.
1127	<i>EDMdatabasei</i>	Increasing Scheduled Backup number of Versions has no effect.
1128	<i>EDMsupervisor</i>	Misleading "No license" dialogue box when starting EDMsupervisor with no EDMsdk license.
1130	EDM virtual machine	Uncomplete return data from <code>xpxGetHashedAttrInstancesBN()</code> .
1132	<i>EDMserveri</i>	Model access kept (between different users) when using web services.
1134	EDM . Core	Incorrect parsing, if two or four octets representation of characters are used in Step File ( <code>±X2\qand ±X4\q</code> ).

<sup>1</sup> BIC = **B**ug**Z**ero **I**dentification **C**ode

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1137	EDM - XML	New option for writing XML according to the old ISO10303-28 format added.
1138	<i>EDMsupervisorī</i>	EDM crash when performing <code>xpxValidateModel()</code>
1144	EDM - Core	EDMstepReader failure when reading big models.
1145	EDM - Core	Restore Database fails when empty <code>_FILE</code> attribute.
1147	EDM . Documentation	Empty <i>EDMassistī</i> volumes are removed from the install kits.
1157	<i>EDMserverī</i>	Missing refresh of data between application servers using web services.
1159	EDM . webServices	EDMWWS/Admin/ListWebServices failed when there was no <i>EDMmethodsī</i> in the <i>EDMdatabaseī</i> .
1167	<i>EDMserverī</i>	Missing check for <i>EDMserverī</i> model access between multiple clients.
1177	EDM - Compiler	Unchanged and re declared attributes produce compiler error.
1187	EDM - Core	Attribute Hash Table missing when restoring dumped <i>EDMdatabaseī</i> .
1193	EDM . Core	VAR list element assignment error.
1197	EDM . Core	Hang when validating a REAL value unique - rule.

## 7.2 Bugs corrected in version 5.0.302.5

<b>BIC</b>	<b>EDM Module</b>	<b>Description</b>
578	EDM - Compiler	XPX compiler error.
1223	<i>EDMserverī</i>	Hang when Change Instance Owner from script.
1224	EDM - Core	Defining too many server contexts crash Supervisor.
1227	<i>EDMserverī</i>	The <i>appserver.exe</i> could crash during tests and have bad performance.

## 7.3 Bugs corrected in version 5.0.302.6

<b>BIC</b>	<b>EDM Module</b>	<b>Description</b>
1148	EDM - EDOM3/Java	EDM query Function in a web-call are missing aggregate types.
1229	<i>EDMserverī</i>	EDM fails when 500 directories are created.
1234	<i>EDMserverī</i>	Dynamic hash tables can crash application server.
1235	<i>EDMsupervisorī</i>	List Remote Repositories gives empty lines in long format.

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#### 7.4 Bugs corrected in version 5.0.302.7

<b>BIC</b>	<b>EDM Module</b>	<b>Description</b>
1238	EDM . Core	LIST OF BOOLEAN parameter in a web-call fails.
1244	<i>EDMSupervisorI</i>	Supervisor crashes in query if divider is less than zero.
1287	EDM - Core	Validation of where rules on complex entities failed.
1298	EDM - Core	Duplicate UUIDs generated with multiple <i>EDMApplicationServersI</i> .
1302	EDM - Core	EDMpersistentAttributeHashTable may render <i>EDMdatabaseI</i> corrupt.
1307	<i>EDMserverI</i>	CLOSE_SERVER_OTPUT_WINDOW option name typo fixed.
1322	EDM -Core	edmiRemoteSelectInstances() crashes with given filename and maxhits=0.
1327	EDM -XML	Typed value in View_Entity as parameter does not work.
1332	EDM - Core	Copy Model failed on enumeration attribute value.

#### 7.5 Bugs corrected in version 5.0.302.8

<b>BIC</b>	<b>EDM Module</b>	<b>Description</b>
1342	EDM . Core	Wrong function return value when calling same function twice in the same statement.
1348	EDM . Core	Query for plcs schema fails.
1349	EDM . Core	Remote Execute Query can not read Query Arguments from script.
1352	<i>EDMserverI</i>	Remote Database Dump crashes edmserver if wrong directory path is given.
1353	EDM . Core	Cannot use header_section_schema as underlying source schema to EDMmappingSchema.
1357	<i>EDMserverI</i>	Appserver crashes in second execution of query.
1367	EDM - Core	Incorrect/Incomplete String encoding in EXPRESS Data Manager.