

Product	Version	Theme	Environment	Date	Department	Person	Language
SEE Electrical PLM	V4Rx	Database server	Windows	02/05/2017	After Sales	Technical Support	EN

Subject:

SQL server 2012/2014 migration

Description:

This document describes the recommendations for the migration of SEE Electrical PLM to Microsoft SQL Server 2012 or 2014

Our proposed solution:

1 - Recommended SQL version to migrate

As MS SQL Server 2012 is already not a recent version, we recommend the 2014 version.

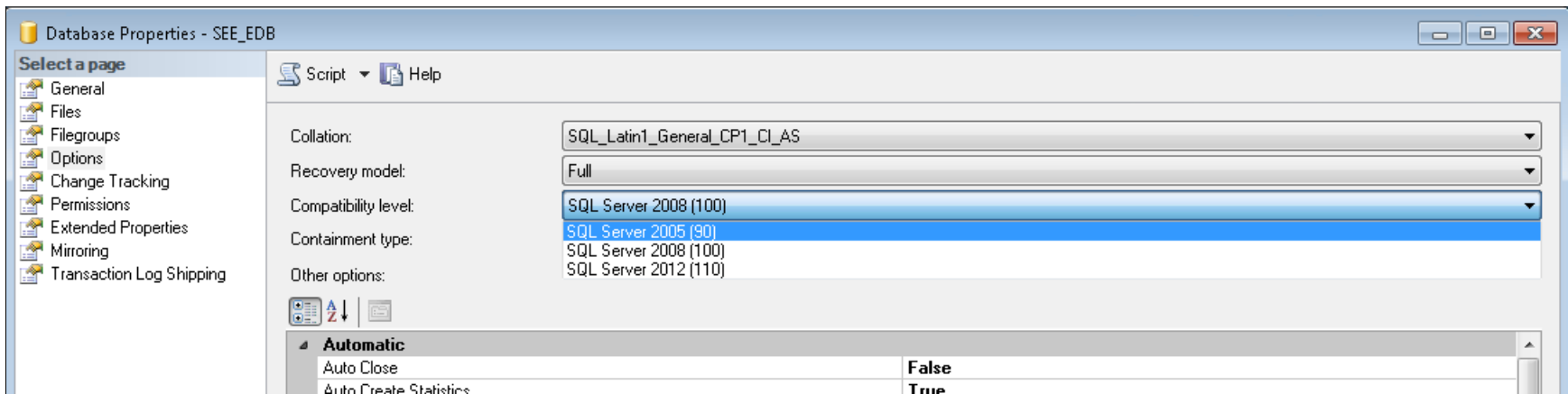
The important point is the compatibility level to set on the databases.

This compatibility level has to be set to 2008 for security, and especially not to 2014.

Because with the 2014 level, a new optimizer is used by MS SQL Server, and our tests have shown rare performance problems with some functions. While the usage of this optimizer did not show a noticeable performance improvement.

How to set the compatibility level under SQL Server:

- start MS SQL Server Management Studio
- Open the properties of the target EDB database
- Change the compatibility level in the options of the database



2 - Installation Pre-requisites

The pre-requisites are those defined by the Microsoft SQL Server version, both on server and client computers. There is no additional requirement due to the change of SQL Server version on IGE side. Especially there is no significant difference noticed by IGE in terms of disk or memory usage on the SQL Server.

3 - Support of SQL Server 2012/2014 by older versions

V2: IGE does not guarantee the proper behavior of the software with those new MS SQL versions.

V3R5: our tests have shown that V3R5 can run without problem under SQL Server 2012 or 2014, with one exception: the function to create new databases.

However this problem will not be blocking, new databases can be created migrating a database created on an older server, or provided by IGE if necessary.

V4R5: full support

V4R71: full support

4 - Test Strategy

If you want to check the impact of the change of MS SQL version on your side, it is usually not necessary to retest all the functions. Only some special aspects of the software seem important to check:

- the migration of databases to the new SQL Server version
(SQL server standard feature)
- the database management functions under the different IGE products:
 - SEE EED Configurator
 - SEE PM DB Configurator
 - SEE PLM Hub Configurator
- the performance of the most sensitive functions according to your usage.
 - SEE PM publication of big input data (Space reservation for the 8-process, GH for the 6/U processes).
 - Wire Harness Calculation
 - Wire Harness Release
 - Opening of the different explorers under Topology
 - ...
- a general concurrent engineering use case