Database report template for the Information Server based on Process Historian data

WinCC, PCS 7, Information Server, Process Historian

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1 Introduction

Aim of the Application Example
As a complement to the instructions "Creation of report templates for the Information Server based on Process Historian data", which you can find on the same entry page in the Online Support, the present instructions describe the application of the database reports available.
The reports make available central information on relevant database key figures based on the 2014 Process Historian.

Target group
The database reports are intended to assist server administrators maintain the Process Historian, or help service personnel to determine the storage capacity requirements of the Process Historian.

Validity
- SIMATIC Process Historian 2014, 2013, V8.0
- SIMATIC Information Server 2014, 2013, V8.0
- SIMATIC PCS 7 V8.2, V8.1, V8.0
- WinCC V7.4, V7.3, V7.0

Contents of the reports
The database reports contain the following information about the Process Historian database
- Segmentation of the memory
- Storage paths
- Total storage space requirements
- Number of stored variables (if there is a redundant OS system only the variables of the master system are reported.)
- Entire memory space
- Number of stored variables (uncompressed)
- Number of stored variables (compressed)
- Number of stored variables (cumulative)
- Number of alarm messages
2 Use of the templates

The report templates have been created for different server scenarios:

- Dedicated Process Historian server
- Combined Process Historian / Information server
- Dedicated Information server

Use a different report template according to the server scenario in your application. You will find the appropriate file names and brief description of the report templates in Section 3.

If you require further information for the Installation, Operation and Maintenance of Process Historian/Information Server in a PCS 7 Environment, please observe the following article: https://support.industry.siemens.com/cs/ww/en/view/66579062

Hinweis

The template can only be used in conjunction with a Process Historian or Information Server.

When using the template with another version of a PH or IS, copy the version string of a working report template into this template.
2.1 **Dedicated Process Historian**

The database report is carried out on the dedicated Process Historian using SQL Server Management. Proceed as follows to use the report:


2. Open SQL Server 2014 Management Studio under the following path in the start menu "Start > Microsoft SQL Server 2014 > SQL Server 2014 Management Studio."

3. Connect to the Process Historian SQL Server

4. Right-click on the "Historian Storage" database and select shortcut menu "Reports > Custom Reports...".
5. Open the previously saved report template "SQL_DiskSpaceReportPH_V1.rdl".
6. Acknowledge the warning notice with "Run". The Report template opens.
2 Use of the templates

8. Open short-cut menu by right-clicking on the report. Select the menu point "Export > PDF" to create a database report.

9. Enter a name for the storage path for the PDF file and click on the "Save" button.

Result

A database report is created as a PDF file.

2.2 Combined Process Historian / Information server

For the application of the Report template "IS_DiskSpaceReportPH_V1.rdl" on a combined Process Historian / Information Server, proceed as follows:

2. Start Internet Explorer 11 and connect to the Information Server.
3. Switch to the "Administration > Templates" menu and click the "Create Folder" button.
4. Enter a name for the new folder.

5. Select the new folder and click the "Upload" button.

6. Select the "Select files" button.

7. Select the "IS_DiskSpaceReportPH_V1.rdl" file and open it: Die Report template is uploaded to the Information Server.
8. Select the "Reporting" menu point and select the "PHDatabaseReport" report. Start the report-generating process by means of "Create Report".

9. Select your project.

10. Start the report using the "Create report" button.

11. Assign a name to your report and click on the "Save" button.
2 Use of the templates

12. Select the report created and select the "download" button.

13. Click "Open" to open your report.

Result

A database report has been created and is available for you as a PDF file.
2.3 Dedicated Information server

In order to use a report template on a dedicated Information Server you must first configure the server connection in the report template before you can use the report template. Proceed as follows:

2. Open the report template "IS_DiskSpaceReportPH_V1.rdl" with a text editor.
3. In XML node "ConnectionString", replace the value "localhost" with the PC name of the Process Historian. In the example, the PC name is "PH08".
4. Save your change.
5. Proceed as described in Section 2.2.

Note: The Report template creates a direct data connection with the Process Historian database. If you use a redundant Process Historian, enter the PC name of the master system. It is not possible to connect with the stand-by system.
3 Files made available

The following files are made available to you for your application:

<table>
<thead>
<tr>
<th>Files</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS_DiskSpaceReportPH_V1_PH80A.rdl</td>
<td>Sample report template for a dedicated Process Historian / Information Server. In the example, the PC name of the Process Historian is &quot;PH80A&quot;.</td>
</tr>
</tbody>
</table>
4 Appendix

4.1 Service and Support

Industry Online Support
Do you have any questions or need assistance?
Siemens Industry Online Support offers round the clock access to our entire service and support know-how and portfolio.
The Industry Online Support is the central address for information about our products, solutions and services.
Product information, manuals, downloads, FAQs and application examples – all information is accessible with just a few mouse clicks at:
https://support.industry.siemens.com/.

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- Spare parts services
- Repair services
- On-site and maintenance services
- Retrofitting and modernization services
- Service programs and contracts
You can find detailed information on our range of services in the service catalog:
https://support.industry.siemens.com/cs/sc

Industry Online Support app
You will receive optimum support wherever you are with the "Siemens Industry Online Support" app. The app is available for Apple iOS, Android and Windows Phone:
https://support.industry.siemens.com/cs/ww/en/sc/2067
## 4.2 Links and Literature

Table 4-1

<table>
<thead>
<tr>
<th>No.</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 1   | Siemens Industry Online Support  
https://support.industry.siemens.com |
| 3   | Collective entry  
Installation, Operation and Maintenance of Process Historian/Information Server  
in a PCS 7 Environment  

## 4.3 Documentation of changes

Table 4-2

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1.0</td>
<td>02/2017</td>
<td>First version</td>
</tr>
<tr>
<td>V1.1</td>
<td>11/2017</td>
<td>Note added to chapter 2</td>
</tr>
</tbody>
</table>