WinCC Data Transfer with OLE DB Interface
WinCC/IndustrialDataBridge, WinCC V7

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1 Task

1.1 Overview

Introduction

WinCC/IndustrialDataBridge (IDB) is a WinCC option which enables easy and fast configuration of data exchange between various automation systems across various standard interfaces. For example via:

- OPC XML
- WinCC OLE DB
- Send/Receive

The WinCC/IndustrialDataBridge also provides data exchange with other applications for the analysis and storage of process values in Office formats, such as:

- CSV/TXT
- Microsoft Excel
- Microsoft Access

It is also possible to integrate databases (e.g. SQL Server, Oracle) for archiving larger amounts of data.

The figure below shows a schematic overview of the different applications and format supported by the WinCC/IndustrialDataBridge.

Figure 1-1
1.2 Requirements of the automation task

The data interfaces shown in Figure 1-1 are integrated via software modules. These modules are structured as follows:

**Provider module**

The provider module establishes the connection to the data provider which delivers the data.

**Consumer module**

The consumer module connects to the data consumer where the data are written.

**Note**

You can connect different providers and consumers with each other. The following must be observed:

- Not all providers are available as consumers and vice versa.
- Providers and consumers are an integral part of a connection.

1.2 Requirements of the automation task

The application describes which software and settings are necessary to implement the following automation tasks:

Access to the archives stored in the WinCC archiving databases (process value and alarm archives) with the provider module “WinCC OLE DB-Provider”.

Output of archive data for Office applications.
2 Solution

2.1 Overview

This documentation leads you through the configuration of WinCC/IndustrialDataBridge using a practical example. The included WinCC example project provides the required environment for the data transfers between provider and consumer modules to be created in the WinCC/IndustrialDataBridge.

Example project

The included WinCC project "WinCC_IDB_Application_1" simulates a simple production process of the production line "Production_1_Line_1" with total, good and fault parts. This example provides the WinCC/IndustrialDataBridge with the environment for the data transfer from the process value archive (Total_Parts, Good_Parts and Fault_Parts) of the production line "Production_1_Line_1" to the longterm archives. The archived process values can then be transferred to the following Office formats using the "WinCC OLEDB provider" module:

- CSV/TXT
- MS Excel
- MS Access

Figure 2-1 shows a schematic overview of the sample project in WinCC Runtime:

![Figure 2-1](image-url)
2 Solution

2.2 Description of the core functionality

Delimitation
This documentation does not explain how to create the included example projects.

Assumed knowledge
SIMATIC WinCC V7
Basic knowledge is assumed for executing the WinCC sample projects included in this application.

2.2 Description of the core functionality

The application example is used to familiarize with the configuration interface of IndustrialDataBridge. It shows in detail how to create and configure the IDB project within the WinCC/IndustrialDataBridge using the WinCC project included in the delivery. The application example covers the following topics:

- Creating a new project and the required link(s)
- Defining the provider and consumer types
- Configuring the provider properties
- Configuring the consumer properties
- Configuration of the link settings
- Configuring the relevant provider and consumer variables
- Generating the Runtime configuration
2 Solution

2.3 Sequence of the core functionality

Chapter 3 shows the work steps required for configuring the WinCC/IndustrialDataBridge using the WinCC example project “WinCC_IDB_Application_1” included in the delivery to create a link between the WinCC OLE DB as data source and the following interfaces as data destinations:

- CSV /TXT file
- MS Excel
- MS Access

Figure 2-2 shows a schematic diagram of the process sequence and the interfaces used in the WinCC/IndustrialDataBridge.

Figure 2-2
2.4 Hardware and software components

The application was created with the following components:

Software components

<table>
<thead>
<tr>
<th>Component</th>
<th>Qty</th>
<th>Article number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIMATIC WinCC V7.3</td>
<td>1</td>
<td>6AV63.1-....7-3...</td>
</tr>
<tr>
<td>WinCC/IndustrialDataBridge V7.3</td>
<td>1</td>
<td>6AV6371-1DX07-3...</td>
</tr>
<tr>
<td>Windows 7 SP1 64-bit</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Microsoft Excel 2013</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Microsoft Access 2013</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Example file and project

The table below contains the example project contained in this documentation:

<table>
<thead>
<tr>
<th>Component</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC_IDB_Application_1.zip</td>
<td>This zip file contains the WinCC project required for Application example No. 1.</td>
</tr>
</tbody>
</table>

Download and unzip

Download the example project available as download and unzip the received zip archive.
3 Application example: WinCC OLE DB provider module

In this chapter, you will learn how to create a link between WinCC OLE DB as a data source and the following interfaces as data targets using
- the WinCC/IndustrialDataBridge and
- SIMATIC WinCC V7

and the following interfaces:
- CSV /TXT file
- MS Excel
- MS Access

3.1 Overview

The application example shows how to perform the following steps in the WinCC/IndustrialDataBridge using the WinCC project “WinCC_IDB_Application_1”:
- Creating a new IDB project
- Creating the relevant links
- Configuring the respective provider/consumer links
- Setting the transmission behavior.

![Diagram of WinCC OLE DB provider module and interfaces]
3 Application example: WinCC OLE DB provider module

3.1 Overview

Structure

The application example is divided into three main sections:

- **SIMATIC WinCC V7**
  This chapter shows how to:
  - Prepare the project environment in SIMATIC WinCC.
  - Export the WinCC archive configuration as an XML file to enable the WinCC OLE DB to access the WinCC archive data.
  - Prepare the environment for the WinCC/IndustrialDataBridge.

- **IDB configuration system (CS)**
  This chapter is used to familiarize with the configuration interface of IndustrialDataBridge. It shows all configuration steps required within a user-generated IDB project with WinCC OLE DB as a data source and covers the following scenarios for links between data source and data destination:
  - WinCC OLE DB – CSV/TXT
  - WinCC OLE DB – MS Excel
  - WinCC OLE DB – MS Access

- **Configuring the IDB consumer interface**
  This chapter illustrates the properties settings required for the respective links.

The table below shows the interface modules used in this application example.

<table>
<thead>
<tr>
<th>WinCC project</th>
<th>IDB project</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC archive files</td>
<td>Provider interface</td>
</tr>
<tr>
<td>Process value archive data</td>
<td>WinCC OLE DB</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3 Application example: WinCC OLE DB provider module

3.2 SIMATIC WinCC

### 3.2 SIMATIC WinCC

**Objective of this application**

Export the WinCC archive configuration as an XML file to enable the WinCC OLE DB to access the WinCC archive data in SIMATIC WinCC. This “IDB configuration file” XML export serves to configure WinCC OLE DB as provider in the WinCC/IndustrialDataBridge if process archive or message archive is used.

![Diagram showing the process of exporting WinCC archive configuration as an XML file](image)

Figure 3-2
3 Application example: WinCC OLE DB provider module

3.2 SIMATIC WinCC

Range of functions/topics not covered
The focus of this chapter is the function description and not how to create the WinCC for read access to WinCC archives.

Assumed knowledge
No previous knowledge is required to understand the functional description of the WinCC application.

3.2.1 Preparing the project environment in SIMATIC WinCC

This chapter describes the required steps for adjusting the project environment of the WinCC project “WinCC_IDB_Application_1.MCP” included in the delivery in order to avoid error messages when activating the WinCC Runtime.

Table 3-2

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Start the SIMATIC WinCC Explorer.</td>
</tr>
<tr>
<td>2.</td>
<td>Click on “File &gt; Open” and select the WinCC project to open the project “WinCC_IDB_Application_1.MCP”.</td>
</tr>
</tbody>
</table>
| 3.  | In the WinCC Explorer window:  
  • Click the “Computer” icon in the WinCC Explorer (1).  
  • In the work area, right-click the computer name with “Server computer” type (2).  
  • Then click on “Properties” (3). |
<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 4.  | In the “Computer properties” window  
• Click on “Use Local Computer Name” in the “Computer properties > General” window. (1)  
• Confirm your selection with “OK”. (2)  
• Restart the SIMATIC WinCC Explorer. |
3.2.2 Function description of the WinCC application

Figure 3-3 shows the WinCC application directly after activating the WinCC Runtime.

Note: The user interface is completely in English.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WinCC/IndustrialDataBridge Runtime</td>
</tr>
<tr>
<td>2</td>
<td>Existing IDB link</td>
</tr>
<tr>
<td>3</td>
<td>WinCC OnlineTableControl</td>
</tr>
<tr>
<td>4</td>
<td>List of process value archives</td>
</tr>
<tr>
<td>5</td>
<td>Open target folder or file of the respective IDB consumer</td>
</tr>
<tr>
<td>6</td>
<td>Last detected process archives</td>
</tr>
</tbody>
</table>
3 Application example: WinCC OLE DB provider module

3.2 SIMATIC WinCC

3.2.3 Operating the WinCC application

This section describes how to establish a read access to the files from the TagLogging archive.

Table 3-4

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>The data displayed in the “WinCC OnlineTableControl” window are simulated variable values which are automatically transferred to the IDB (RT).</td>
</tr>
</tbody>
</table>
3.2.4 Exporting the WinCC archive configuration

The following table shows how to export the WinCC archive configuration to an XML file in SIMATIC WinCC.

<table>
<thead>
<tr>
<th>NOTICE</th>
<th>Language setting in SIMATIC WinCC</th>
</tr>
</thead>
<tbody>
<tr>
<td>The language in SIMATIC WinCC must be set to English before exporting the XML file. The procedure is as follows:</td>
<td></td>
</tr>
<tr>
<td>• Click “Options &gt; Language” in the menu bar.</td>
<td></td>
</tr>
<tr>
<td>• In the “Select language” window, select “English” under “Installed languages”. Then click “OK”.</td>
<td></td>
</tr>
</tbody>
</table>

After setting the language setting in SIMATIC WinCC to English, proceed as follows:

Table 3-5

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Start the SIMATIC WinCC Explorer.</td>
</tr>
<tr>
<td>2.</td>
<td>Open the WinCC project “WinCC_IDB_Application_1.MCP”.</td>
</tr>
<tr>
<td>3.</td>
<td>Activate the WinCC Runtime.</td>
</tr>
</tbody>
</table>
### Application example: WinCC OLE DB provider module

#### 3.2 SIMATIC WinCC

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Right-click on IndustrialDataBridge in the navigation area of the WinCC Explorer (1).</td>
</tr>
</tbody>
</table>

Select “Project XML Export” (2) to export the XML file.
3 Application example: WinCC OLE DB provider module

3.2 SIMATIC WinCC

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Select the desired WinCC variables, e.g. “Production_1_Line_1”, in the “Export configuration data” window (1).&lt;br&gt;• Select a storage path and a name for the XML file under “XML target file” (2). Then click “Save”.&lt;br&gt;• Click “Export” (3).</td>
</tr>
<tr>
<td>6.</td>
<td>Once the file has been exported successfully (1), click on the “Close” button (2).</td>
</tr>
</tbody>
</table>

**Note**<br>The following must be observed if the WinCC project has been modified:<br>• You need to execute the command “Project XML Export” again.<br>• If required, change the IDB configuration by selecting the modified XML file in the WinCC OLE DB provider configuration and uploading it again.

An additional method how to create the XML export file can be found in chapter 3.1.1 “Creating the WinCC-project based XML file” under the following entry ID [109476988](#).
3 Application example: WinCC OLE DB provider module

3.2 SIMATIC WinCC

3.2.5 Preparing the environment for the WinCC/IndustrialDataBridge.

Observe the following when preparing the environment for the WinCC/IndustrialDataBridge.

Language setting

Both SIMATIC WinCC and WinCC/IndustrialDataBridge must be set to the same language to ensure proper communication between them.

WinCC Runtime

WinCC Runtime must be set to active during configuration in the IndustrialDataBridge (CS). This makes the interface available for searching the OPC server (OPC variable browser).
3.3 IDB configuration system (CS)

This chapter shows all steps required in the IDB configuration system (CS) for creating and configuring an IDB project for establishing a link between data source and data destination.

Figure 3-4
### 3.3.1 Creating and configuring the IDB project

#### Opening the IDB configuration system (CS)

Open the IDB configuration system (CS) as described in the following table:

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Right-click on IndustrialDataBridge in the navigation area of the WinCC Explorer (1).</td>
</tr>
<tr>
<td>2.</td>
<td>Select &quot;Configuration&quot; (2) to open the IDB configuration system.</td>
</tr>
</tbody>
</table>

![Image showing the steps to open the IDB configuration system](image_url)
Creating a new project

Create a new project as described in the table below:

Table 3-7

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Click “Projects &gt; New project” in the menu bar.</td>
</tr>
<tr>
<td>2.</td>
<td>In the “Create a new project” window, enter a project name, e.g. “WinCC OLEDB_project” (1), and a storage path for the new IDB project (2).</td>
</tr>
<tr>
<td>3.</td>
<td>Click the “Create” button (3).</td>
</tr>
</tbody>
</table>

The created project is displayed in the list in the navigation area. The next step is to create a link.

3.3.2 Creating links

To create a link between provider and consumer, proceed as follows:

Note

Three links are created with the WinCC OLEDB as provider and the following interfaces as consumers:

- CSV/TXT interface.
- MS Excel interface.
- MS Access interface.
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Table 3-8

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Right-click the project name node &quot;WinCC OLEDB _project&quot; in the tree structure and select “Add a new link” (1).</td>
</tr>
</tbody>
</table>

![Diagram of project tree with right-click action highlighted]

2. Creating a “WinCC OLEDB > CSV/TXT” link
   - In the “Add a new link” dialog, enter a unique name for the link to be created. E.g.: “WinCC OLEDB > CSV/TXT” (1).
   - Select “WinCC OLEDB” as provider in the provider field (2).
   - Select “CSV/TXT” as data destination in the consumer field (3).
   - Then click OK (4).

![Diagram of Add a new link dialog]

Note:
For a better overview, it is sensible to identify the link with the name of the desired provider and the respective consumer when assigning names. E.g. “Provider > Consumer”.

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### 3 Application example: WinCC OLE DB provider module

#### 3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Creating a “WinCC OLEDB &gt; MS Excel” link &lt;br&gt;Repeat steps 1 and 2 and select “Excel” as data destination in the consumer field. Then click OK.</td>
</tr>
<tr>
<td><img src="image" alt="Add a new link" /></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Creating a “WinCC OLEDB &gt; MS Access” link &lt;br&gt;Repeat steps 1 and 2 and select “Database” as data destination in the consumer field. Then click OK.</td>
</tr>
<tr>
<td><img src="image" alt="Add a new link" /></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>The created links are displayed under the project name in the project tree.</td>
</tr>
<tr>
<td><img src="image" alt="Project tree" /></td>
<td></td>
</tr>
</tbody>
</table>

The next step is configuring the provider interface (WinCC OLE DB).
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

3.3.3 Configuring the WinCC OLE DB interface as provider

The steps shown in the table below apply to all WinCC OLE DB interfaces of the links created in chapter 3.3.2.

Note

The XML file from the WinCC project “IDB_Configuration.xml” exported from the current WinCC configuration is required for configuring the WinCC OLE DB interface (see chapter 3.2.4).

To configure the WinCC OLE DB interface, proceed as follows:

Table 3-9

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Double-click the provider node “Provider(WinCC OLEDB)” within the desired link in the project tree.</td>
</tr>
<tr>
<td>2.</td>
<td>In the “WinCC OLEDB provider configuration” window in the configuration area, click on [...] and select the XML export file “IDB_Configuration.xml” that you have exported from WinCC in chapter 3.2.4. Then click “Open”.</td>
</tr>
</tbody>
</table>
### Procedure

#### 3.
Select the name of the WinCC Station of the selected provider in the "Archive configuration" area.

![WinCC OLEDB provider configuration](image)

#### 4.
Repeat the steps 1-3 for the two remaining links:
- WinCC OLEDB > MS Excel.
- WinCC OLEDB > MS Access.

**Note**
How to find out the name of the WinCC Station is described in chapter 3.2.1 "Preparing the project environment in SIMATIC WinCC".
3.3.4 Configuring CSV and TXT files as consumers

**Note**
The steps shown in the table below must be performed within “WinCC OLEDB > CSV/TXT”.

**Storage location structure**

It is advisable to create a structured storage location for better overview. For multiple links, this has the benefit of being able to divide the logs to be created depending on consumer type.

To create the CSV/TXT interface, proceed as follows:

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Double-click the “Consumer(CSV)” consumer node in the project tree.</td>
</tr>
<tr>
<td>2.</td>
<td>In the “CSV/TXT consumer configuration” window in the configuration area, click on [...] and select the folder for the CSV logs to be created. Then click on “OK”.</td>
</tr>
<tr>
<td>3.</td>
<td>Click “Test” to test the connection.</td>
</tr>
</tbody>
</table>
4. Configuring the link settings

Double-click the “Settings” node in the project tree and open the “Settings” window in the work area. The “Settings” window contains three tabs:

- “Transfer options”
- “Connection mapping” and
- “Connections”.

![Image of the “Settings” window](image)

**Note**

The steps described here also apply for the subsequent links:

- WinCC OLEDB > MS Excel.
- WinCC OLEDB > MS Access.

You are forwarded with a cross reference when the transfer settings are completed.

**WinCC OLE DB transfer options**

Set the archive and transfer option settings for the WinCC OLE DB provider in the “Transfer options” tab as follows:
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Archive settings

**Note**

“Process value archive” is the archive type set as data source for the WinCC OLE DB provider.

How to proceed with the “Message archive” type is described in the WinCC/IndustrialDataBridge System Manual under the entry ID 73968374.

Table 3-11

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 1.  | In the “WinCC OLE DB transfer options” window  
• Select “Process value archive” as archive type from which the archive data are to be transferred in the “Archive settings” area under “Archive” (1).  
• Click on the “Process value” button to select the desired archive variables (2). |
| 2.  | In the “Variable filter” window  
• Under “Archive”, select the archive containing the desired archive variable, e.g. “Production_1_Line_1” (1).  
• All archive variables stored in the “Production_1_Line_1” archive are listed in the left display area (2).  
• Select the desired archive variables individually or entirely and click on the “>” or “>>” button to transfer them to the IDB (3). |
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image" alt="Variable filter window" /></td>
</tr>
</tbody>
</table>

3. Then click “OK”.

**Note**

In case there are no “Archives” or “Archive variables” in the “Variable filter” window, take note of the following:

- The language in SIMATIC WinCC has not been set to English before exporting the XML file.
- WinCC Runtime is not active. In this case, proceed as follows:
  - Activate the WinCC Runtime.
  - If required, restart the IDB (CS).
Transmission behavior

In the “Time settings” area, proceed as follows:

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>For a continuous transfer, select the “Cyclic &amp; continuously” option.</td>
</tr>
<tr>
<td>2.</td>
<td>Click on the “Trigger” button to open the “Trigger provider” window.</td>
</tr>
</tbody>
</table>
| 3.  | In the “OPC Settings” area  
   • Select the name of the OPC server by clicking on the [...] button (1) and selecting the “OPCServer.WinCC” server (2).  
   • Confirm the selection by clicking on the (√) button (3). |
| 4.  | Then click on the "OK" button. |
| 5.  | Click on the “Start-up behavior” button. |
| 6.  | In the “Start-up behavior” window  
   Under “Behavior for first transmission”, click the option box “Transfer current archive values”, then confirm with "OK". |

Note

Cross reference to:
- Connecting variables (MS Excel file)
- Connecting variables (MS Access file)
Connecting variables (CSV/TXT file)

In the “Settings” window, click on the “Connection mapping” tab and proceed as follows:

**Note**

The “Connection mapping” tab contains the following areas:

- WinCC OLEDB provider
- CSV/TXT consumer
- Connection mapping settings
- Default name options
- Connections

This application example considers the following column names from the “WinCC OLEDB provider” area for preparing and creating a CSV/TXT file:

- ValueName: contains the variable name.
- RealValue: contains the variable value.
- TimeStamp: contains the date.

Preparing and creating a CSV/TXT file:

To transfer variables from the “WinCC OLEDB provider” to a “CSV/TXT file”, the desired column names from the “WinCC OLEDB provider” area must be mapped to the “CSV/TXT consumer” area as follows:

<table>
<thead>
<tr>
<th>Column name (WinCC OLEDB provider)</th>
<th>Column name (CSV/TXT consumer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValueName</td>
<td>Parts</td>
</tr>
<tr>
<td>RealValue</td>
<td>Value</td>
</tr>
<tr>
<td>TimeStamp</td>
<td>Time</td>
</tr>
</tbody>
</table>

The figure shows how the completed CSV/TXT file looks after preparation:
The procedure is as follows:

Table 3-14

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Click the “New CSV file” button in the “CSV/TXT consumer” area.</td>
</tr>
</tbody>
</table>

1. In the “CSV creator” window
   - In the “Column name” text field, enter the column names “Time”, “Parts”, “Value” individually (1) and after each entry, click the “Add” button (2).
   - Enter “OLEDB_CSV.csv” in the “File name” text field (3). Then click on “Create” (4). |
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Note

The upper case keyword “ID” must not be used in the name when creating the first column of the CSV file.

If you enter “ID” as the first column name, a double-click on the CSV file will issue a warning message. CSV files do not support this behavior.

Mapping column names:

After preparing and creating the CSV/TXT file, the selected column names must be mapped to the areas “WinCC OLEDB provider” and “CSV consumer” as follows:

Note

The CSV/TXT file only supports the “OLE/Binary Automations String (VT_BSTR)” data type. Please observe this for the mapping in the table below.
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Table 3-15

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 1.  | In the “WinCC OLEDB provider” area  
• Select the name “RealValue” from the “Column name” column (1).  
• Once selected, this column is displayed in the “Column for data value” field (2).  
• The data type “4-Byte signed int (VT_I4)” is determined automatically using the selected column name. Change the data type to “OLE/Binary Automation String (VT_BSTR)” by selecting “OLE/Binary Automation String (VT_BSTR)” in the “Data type” field (3). |
| 2.  | In the “Connection mapping settings” area  
The column name “RealValue” selected in the “WinCC OLEDB provider” area is displayed in the field “Connection name”. |
| 3.  | In the “CSV/TXT consumer” area  
Select the “Value” tab name to be mapped. |
3 Application example: WinCC OLE DB provider module
3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>In the “Default name options” area&lt;br&gt;  If the column names in the provider and consumer areas differ, the option “Name equal to provider and consumer” is recommended.</td>
</tr>
</tbody>
</table>

![Default name options](image)

| 5.  | Now the connection name in the “Connection mapping settings” area has changed to “RealValue->Value” (1).<br>  Click on the “Enter” icon to create the connection between the two selected column names of both areas (provider and consumer) (2). |

![Connection mapping settings](image)

| 6.  | Repeat steps 1 and 5 for both remaining columns.<br>  - ValueName -> Parts<br>  - TimeStamp -> Time |

| 7.  | In the “Connections” area<br>  This area shows all existing connections. |

![Connections](image)
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

3.3.5 Configuring MS Excel files as consumers

**Note**

The steps shown in the table below must be performed within "WinCC OLEDB > MS Excel".

**Storage location structure**

It is advisable to create a structured storage location for better overview. For multiple links, this has the benefit of being able to divide the logs to be created depending on consumer type.

To configure the MS Excel interface, proceed as follows:

Table 3-16

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Double-click the “Consumer(Excel)” consumer node in the project tree.</td>
</tr>
<tr>
<td>2.</td>
<td>In the project area in the “Excel save configuration” tab in the “Excel configuration” area, click on [...] and select the folder for the Excel logs to be created.</td>
</tr>
</tbody>
</table>
### Procedure

1. Enter the name of the “OLEDB Excel” sheet to be created in the “Save as” browser window in the “File name” text field (1). Then click “Save” (2).

2. The “File name” text field in the “Excel configuration” area is filled in automatically.

3. In the “Advance options” tab

   - In the “Sheet names” tab, select the “Set sheet name as” option (1) and enter “WinCC OLEDB” as a name in the “Sheet 1” input field (2).
   - Select option “1” for each workbook in the “Sheets per workbook” area. (3)
   - In the “Automatic save options”, enable the “Save after a specific time” checkbox and enter the desired save period, e.g. “1 minute”.
   - In the “Suffix of the file name” area, enable the “Date/time” option.
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Configuring the link settings

Double-click the “Settings” node in the project tree within the “WinCC OLEDB > MS Excel” link and open the “Settings” window in the work area. The “Settings” window contains three tabs:

- “Transfer options”
- “Connection mapping” and
- “Connections”.

![Figure 3-6: WinCC OLE DB configuration system](image)

WinCC OLE DB transfer options

To do this, carry out the steps described in chapter 3.3.4 “CSV/TXT files as consumers” under “WinCC OLE DB transfer options”.

Connecting variables (MS Excel file)

In the “Settings” window, click on the “Connection mapping” tab and proceed as follows:

Note

The “Connection mapping” tab contains the following areas:

- WinCC OLEDB provider
- Excel consumer
- Connection mapping settings
- Default name options
- Connections

This application example considers the following column names from the “WinCC OLEDB provider” area for preparing and creating an Excel file:

- ValueName: contains the variable name.
- RealValue: contains the variable value.
Preparing the Excel file:

To transfer variables from the “WinCC OLEDB provider” to an “Excel file”, the desired column names from the “WinCC OLEDB provider” area must be mapped to the “Excel consumer” area as follows:

Table 3-17

<table>
<thead>
<tr>
<th>Column name (WinCC OLEDB provider)</th>
<th>Column name (CSV/TXT consumer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValueName</td>
<td>Parts</td>
</tr>
<tr>
<td>RealValue</td>
<td>Value</td>
</tr>
</tbody>
</table>

The figure shows how the completed Excel file looks after preparation:
The procedure is as follows:

Mapping column names:

Table 3-18

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 1.  | In the “WinCC OLEDB provider” area  
   • Select the name “RealValue” from the “Column name” column (1).  
   • Once selected, this column is displayed in the “Column for data value” field (2).  
   • The data type “8-Byte real int (VT_R8)” is determined automatically using the selected column name (3). |

2.  | In the “Connection mapping settings” area  
   The column name “RealValue” selected in the “WinCC OLEDB provider” area is displayed in the field “Connection name” (1).  
   **Note:**  
   If the selected column name cannot be displayed in the “Connection name” field, deactivate and then re-activate the “Enable default name” option (2). |
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td><strong>In the “Excel consumer” area</strong>&lt;br&gt;Enter the column name “Value” to be mapped in the “Column name” text field (1). The select the respective “8-byte real (VT_R8)” data type in the “Data type” drop-down menu.</td>
</tr>
<tr>
<td></td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>4.</td>
<td><strong>In the “Default name options” area</strong>&lt;br&gt;If the column names in the provider and consumer areas differ, the option “Name equal to provider and consumer” is recommended.</td>
</tr>
<tr>
<td></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>5.</td>
<td><strong>Now the connection name in the “Connection mapping settings” area has changed to “RealValue-&gt;Value” (1).</strong>&lt;br&gt;Click on the “□” icon to create the connection between the two selected column names of both areas (provider and consumer) (2).</td>
</tr>
<tr>
<td></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>6.</td>
<td><strong>Repeat steps 1 and 5 for the remaining column.</strong>&lt;br&gt;• ValueName -&gt; Parts</td>
</tr>
</tbody>
</table>
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 7.  | In the “Connections” area  
This area shows all existing connections. |

### 3.3.6 Configuring MS Access as Consumer (Data Base)

**Note**
The steps shown in the table below must be performed within “WinCC OLEDB > MS Access”.

#### Storage location structure
It is advisable to create a structured storage location for better overview. For multiple links, this has the benefit of being able to divide the logs to be created depending on consumer type.

#### MS Access file
In contrast to MS Excel, the MS Access file must be created before configuring the MS Access interface “Consumer(Database)”. This application example considers the following column names from the “WinCC OLEDB provider” area for preparing and creating an MS Access file:

- **ValueName**: contains the variable name.
- **RealValue**: contains the variable value.
- **TimeStamp**: contains the date.

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Open MS Access 2013 to create an Access file.</td>
</tr>
<tr>
<td>2.</td>
<td>To do this, click on “Empty database”.</td>
</tr>
</tbody>
</table>
### 3 Application example: WinCC OLE DB provider module

#### 3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Save the Access file as “OLEDB-Access.accdb”. Then click the “Create” button.</td>
</tr>
</tbody>
</table>

![Blank desktop database](image1.png)

4. **In the “Table1” work area**

Add a new column with the name “Parts” beside the “ID” column by clicking “Click to Add” and selecting “Text” as data type (1).

Change the column name to “Parts” and press “Enter”.

![Add new column](image2.png)
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 5.  | Repeat step “4” for the remaining two columns:  
     • “RealValue” with data type “Number”.  
     • “Time” with the data type “Date and time”. |
|     | ![Image of database configuration process] |

| 6.  | Click “Save”.  
     In the “Save as” browser window, enter the name “OLEDB Access” in the “Table name” text field (1) and click “OK” (2). |
|     | ![Image of saving database configuration] |
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>Now the MS Access file has been prepared and created. Close the MS Access file.</td>
</tr>
</tbody>
</table>

To configure the MS Access interface, proceed as follows:
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Table 3-20

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.</td>
<td>Double-click the “Consumer(Database)” consumer node in the project tree within the “OLEDB – MS Access” link.</td>
</tr>
<tr>
<td>9.</td>
<td>In the “OLE DB consumer” area, select the “Microsoft Access” option.</td>
</tr>
</tbody>
</table>
### Application example: WinCC OLE DB provider module

#### 3.3 IDB configuration system (CS)

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 10. | **In the “Microsoft Access” area**  
Select the existing Access file by clicking the [...] button in the “Database” field and selecting the Access file “OLEDB-Access.accdb” from the relevant folder. Then click “Open”. (1)  
Click on the “Test...” button (2).  
Then click “OK” (3). |

#### Procedure Image

![Image of Microsoft Access database configuration](image-url)

<table>
<thead>
<tr>
<th>11.</th>
<th>The “Connection string” text field is filled in automatically.</th>
</tr>
</thead>
</table>
| 12. | **IN the “Consumer type configuration” area:**  
Select the consumer type “One data record per call – Record Set” in the “Consumer type” field.  
Further information on the various consumer types is available in the “WinCC/IndustrialDataBridge documentation” system manual in sub-chapter “Consumer type” |

#### Configuring the link settings

Double-click the “Settings” node in the project tree and open the “Settings” window in the work area. The “Settings” window contains three tabs:

- “Transfer options”
- “Connection mapping” and
- “Connections”

---

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WinCC OLE DB transfer options

To do this, carry out the steps described in chapter 3.3.4 “CSV/TXT files as consumers” under "WinCC OLE DB transfer options".

Connecting variables (MS Access file)

In the “Settings” window, click on the “Connection mapping” tab and proceed as follows:

**Note**

The “Connection mapping” tab contains the following areas:

- WinCC OLEDB provider
- Database consumer
- Connection mapping settings
- Default name options
- Connections

This application example considers the following column names from the “WinCC OLEDB provider” area:

- ValueName: contains the variable name.
- RealValue: contains the variable value.
- TimeStamp: contains the date.

To transfer variables from the “WinCC OLEDB provider” to an “MS Access file”, the desired column names from the “WinCC OLEDB provider” area must be mapped to the “Database consumer” area as follows:
3 Application example: WinCC OLE DB provider module

3.3 IDB configuration system (CS)

Table 3-21

<table>
<thead>
<tr>
<th>Column name (WinCC OLEDB provider)</th>
<th>Column name (CSV/TXT consumer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValueName</td>
<td>Parts</td>
</tr>
<tr>
<td>RealValue</td>
<td>Value</td>
</tr>
<tr>
<td>TimeStamp</td>
<td>Time</td>
</tr>
</tbody>
</table>

The figure shows how the completed MS Access file looks after preparation:

To do this, proceed as follows:
Table 3-22

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>In the &quot;Database consumer&quot; area, click on the &quot;Table&quot; button and select the existing MS Access file &quot;OLEDB-Access&quot;.</td>
</tr>
</tbody>
</table>

2. **In the “Columns” area**
   After selecting the MS Access file "OLEDB-Access", the columns created in the file are displayed in the column “Column name” or “Data type”.

**Mapping column names:**
After preparing and creating the MS Access file, the selected column names must be mapped to the areas “WinCC OLEDB provider” and “Database consumer” as follows:
Table 3-23

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| 1.  | In the “WinCC OLEDB provider” area  
• Select the name “ValueName” from the “Column name” column (1).  
• Once selected, this column is displayed in the “Column for data value” field (2).  
• The data type “OLE/Binary Automation string (VT_BSTR)” is determined automatically using the selected column name (3). |

![WinCC OLEDB provider diagram]

2. In the “Connection mapping settings” area  
The column name “ValueName” selected in the “WinCC OLEDB provider” area is displayed in the field “Connection name”.

![Connection mapping settings diagram]

3. In the “Database consumer” area  
Select the “Parts” tab name to be mapped.

![Database consumer diagram]
4. In the “Default name options” area
If the column names in the provider and consumer areas differ, the option “Name equal to provider and consumer” is recommended.

5. Now the connection name in the “Connection mapping settings” area has changed to “ValueName->Parts” (1).
Click on the “!” icon to create the connection between the two selected column names of both areas (provider and consumer) (2).

6. Repeat steps 1 and 5 for both remaining columns.
   - RealValue -> RealValue
   - TimeStamp -> Time

7. In the “Connections” area
This area shows all existing connections.
3.4 Generating IDB Runtime configuration

To generate the Runtime configuration file, proceed as follows:

Table 3-24

<table>
<thead>
<tr>
<th>No.</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Click “Save” in the IDB menu bar (1).</td>
</tr>
<tr>
<td>2.</td>
<td>Then click “Generate runtime configuration” (2).</td>
</tr>
<tr>
<td>3.</td>
<td>Save the IDB configuration file “WinCC OLEDB_project.xml” in the appropriate folder.</td>
</tr>
<tr>
<td>4.</td>
<td>Click the “Runtime configuration” button in the IDB menu bar (3).</td>
</tr>
</tbody>
</table>
| 5.  | In the “Runtime configuration” area:  
  - Enable the “Connect automatically and enable connection(s)” checkbox.  
  - In the “Start-up option” area:  
    - In the “Open existing configuration file” text field, click on the [...] button.  
    - Activate the “Enable automatic track” checkbox.  
    - Select 5 seconds in the “Waiting time before connecting (seconds)” field as wait time. This is how the connections are activated/deactivated.  
  - Then click “OK”. |

Generating the IDB runtime configuration is now complete.

Result

Restart WinCC Runtime to automatically upload the existing IDB configuration file “WinCC OLEDB_project.xml” to the IndustrialDataBridge(RT).

Let the IndustrialDataBridge(RT) run for 1-2 minutes. Then click on “Stop” and then “Disconnect” in the IndustrialDataBridge(RT) toolbar.

The transferred values can be found in the target folder in the respective consumer file.

The following mappings are examples for results of the data transfer to the CSV/TXT, MS Excel and MS Access file:
3 Application example: WinCC OLE DB provider module

3.4 Generating IDB Runtime configuration

CSV/TXT file

Figure 3-8

MS Excel file

Figure 3-9
3 Application example: WinCC OLE DB provider module

3.4 Generating IDB Runtime configuration

MS Access file

Figure 3-10
3 Application example: WinCC OLE DB provider module

3.4 Generating IDB Runtime configuration
This chapter lists frequently occurring errors:

Table 4-1

<table>
<thead>
<tr>
<th>No.</th>
<th>Behavior</th>
<th>Possible cause(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Error message upon activation of the SIMATIC WinCC Runtime.</td>
<td>Possibly, your computer is not configured as server computer.</td>
</tr>
<tr>
<td>2.</td>
<td>WinCC OLE DB provider is not available.</td>
<td>For the WinCC OLEDB provider of the IndustrialDataBridge to be able to access WinCC, the WinCC language setting must be changed to English before exporting the XML file. Otherwise, the database interface will not be available. Further information can be found in chapter 3.2.4 “Exporting the WinCC archive configuration”.</td>
</tr>
<tr>
<td>3.</td>
<td>You cannot get data, although the Connectivity Pack is installed.</td>
<td>The “Microsoft Message Queue (MSQM) Server Core” service might not be activated. How to activate your service is described in the WinCC/Connectivity Pack system manual under “How to install Microsoft Message Queuing”.</td>
</tr>
<tr>
<td>4.</td>
<td>You cannot select process values or message data in the “Provider settings” window.</td>
<td>You have not changed the language setting to English before exporting the XML file of the WinCC archive configuration. You have not activated the WinCC Runtime before exporting the XML file of the WinCC archive configuration. Set the WinCC Runtime to “RUN” and repeat the export as described in chapter 3.2.4 “Exporting the WinCC archive configuration”. If required, change the IDB configuration by selecting the modified XML file in the WinCC OLE DB provider configuration and uploading it again (see chapter 3.3.3).</td>
</tr>
<tr>
<td>5.</td>
<td>The interface for searching the OPC server (OPC variable browser) is not available.</td>
<td>see chapter 3.2.5 “Preparing the environment for the WinCC/IndustrialDataBridge”</td>
</tr>
</tbody>
</table>
4 Error detection

<table>
<thead>
<tr>
<th>No.</th>
<th>Behavior</th>
<th>Possible cause(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>IDB runtime signals an error during start-up.</td>
<td>Possibly, you do not have administrator rights. Proceed as follows to rectify the error:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Right-click on the start menu entry “Programs &gt; Siemens Automation &gt; IndustrialDataBridge &gt; execute as administrator” and select the context menu item “IndustrialDataBridge(RT)”.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Possibly, the IDB runtime service has not been started yet. Proceed as follows to rectify the error:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Right-click on the start menu item “Computer”. Then click “Manage”. Double-click on “Services and applications &gt; Services” in the “Computer Management” window. Right-click on “IndustrialDataBridge runtime &gt; Properties”. Select the option “Automatic” from the drop-down list in the “Startup type” area, then click on the “Start” button.</td>
</tr>
<tr>
<td>7.</td>
<td>When I open the CSV file, the following error message is displayed:</td>
<td>This error occurs, when the name of the first column is “ID” (upper case). To avoid this error, rename the column and use lower case letters or add a prefix or suffix to the “ID”.</td>
</tr>
<tr>
<td></td>
<td>“Editor has recognized the file as an SYLK file, but cannot load the file. The file is damaged or the SYLK file format is invalid. Click OK to open the file in another format.”</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>CSV file as consumer type is empty after export or there are values missing.</td>
<td>The CSV file can only read and save data in string format. This means the formats of the delivered values must be set to string format in the provider settings. Further information can be found in chapter 3.3.4 “Configuring CSV/TXT file as consumer”.</td>
</tr>
<tr>
<td>9.</td>
<td>MS Access as consumer type delivers the following errors:</td>
<td>You have not prepared the MS Access file. Further information can be found in chapter 3.3.6 “Configuring MS Access as consumer”.</td>
</tr>
<tr>
<td></td>
<td>“Could not create Handle Array”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>“Consumer not connected”</td>
<td></td>
</tr>
</tbody>
</table>
### Error detection

<table>
<thead>
<tr>
<th>No.</th>
<th>Behavior</th>
<th>Possible cause(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.</td>
<td>MS Excel delivers less values compared with the CSV/TXT file</td>
<td>The CSV/TXT file as consumer type has a significantly higher access speed than the “Excel” data type.</td>
</tr>
</tbody>
</table>
## 5 Links & Literature

### Table 5-1

<table>
<thead>
<tr>
<th>Topic</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Siemens Industry Online Support</td>
</tr>
</tbody>
</table>

## 6 History

### Table 6-1

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Modifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1.0</td>
<td>04/2016</td>
<td>First version</td>
</tr>
</tbody>
</table>