Configuring of SIMATIC BATCH Report using a practical example

SIMATIC BATCH V8.1 SP1

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Preface

Aim of the Application Example

The aim of this application example is to provide a configurable sample report. Practical examples will show you how to adjust the BATCH Report to your requirements and how to use it as a template.

Key Content

The following main topics are covered in this application example:

- Identifying report customization options
- Integrating the report templates
- Testing report templates
- Presenting configurable parameters

Validity

- SIMATIC PCS 7 V8.1 SP1
- SIMATIC BATCH V8.1 SP1

NOTICE

The Application Example is not valid in conjunction with Process Historian (PH) / Information Server (IS).

The background to this is that an IS report must be able to change the pattern dynamically as a parameter to be able to show the data of the different data sources of the PH. Then queries which are adaptable and easy to understand cannot be generated by using graphic query editors as described in the application example.
# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty and liability</td>
<td>2</td>
</tr>
<tr>
<td>Preface</td>
<td>3</td>
</tr>
<tr>
<td><strong>1</strong> Task Description and Solution</td>
<td>5</td>
</tr>
<tr>
<td>1.1 Task</td>
<td>5</td>
</tr>
<tr>
<td>1.2 Solution</td>
<td>5</td>
</tr>
<tr>
<td>1.3 Hardware and software components</td>
<td>6</td>
</tr>
<tr>
<td><strong>2</strong> Integrating the report files</td>
<td>8</td>
</tr>
<tr>
<td>2.1 Uploading the report templates in the Reporting Services database</td>
<td>8</td>
</tr>
<tr>
<td>2.2 Checking the connection of the report templates</td>
<td>11</td>
</tr>
<tr>
<td>2.3 Testing the report</td>
<td>16</td>
</tr>
<tr>
<td><strong>3</strong> Assigning report parameters</td>
<td>17</td>
</tr>
<tr>
<td><strong>4</strong> Adjusting parameters</td>
<td>19</td>
</tr>
<tr>
<td>4.1 Page header</td>
<td>19</td>
</tr>
<tr>
<td>4.2 Table of contents</td>
<td>22</td>
</tr>
<tr>
<td>4.3 Hiding object types</td>
<td>23</td>
</tr>
<tr>
<td>4.4 Hiding report elements for levels</td>
<td>24</td>
</tr>
<tr>
<td>4.5 Object header representation</td>
<td>26</td>
</tr>
<tr>
<td>4.6 General information</td>
<td>28</td>
</tr>
<tr>
<td>4.7 Messages</td>
<td>30</td>
</tr>
<tr>
<td>4.8 Plant allocation</td>
<td>34</td>
</tr>
<tr>
<td>4.9 Transitions</td>
<td>35</td>
</tr>
<tr>
<td>4.10 Trends</td>
<td>35</td>
</tr>
<tr>
<td>4.11 Editing history</td>
<td>37</td>
</tr>
<tr>
<td>4.12 Showing parameters</td>
<td>37</td>
</tr>
<tr>
<td><strong>5</strong> References</td>
<td>39</td>
</tr>
<tr>
<td><strong>6</strong> History</td>
<td>39</td>
</tr>
</tbody>
</table>
1 Task Description and Solution

1.1 Task

SIMATIC BATCH provides a report for all types of batches. This represents all objects that can occur in a batch with a flat or hierarchical recipe structure. Often however, the information contained in the report can be very extensive and only partially needed in specific cases of application.

SIMATIC BATCH also allows you to create custom reports. However, it is necessary to have expert knowledge in the following topic areas:

- SIMATIC BATCH
- SQL structures
- Microsoft Reporting Services incl. Report Builder

1.2 Solution

Description

This Application Example provides an example of a configurable report template. The adjustment is carried out by means of parameters outside the report without modifying the RDL code (RDL = "Report Description Language").

The SIMATIC BATCH Reporting uses the Microsoft Reporting Services. This allows the creation of custom report templates with the Report Builder. The report template described in this application example can be adjusted using parameters. This allows, for example, various report objects (headings, details, lines) to be hidden on the basis of hierarchy levels, object types, object status, etc. The report template is based on the standard report. The main structure of the standard report remains unchanged. The report template also provides the ability to sort messages according to hierarchy at the end of the report rather than display it as message blocks at each recipe object. Another option is the representation of messages in chronological order and in WinCC colors.

Aim

This application example shows how the standard report can be customized for a productive system and which variants are possible.

NOTICE

This report template is given as an example. The report template has not been released for direct use in the productive environment. The example is based on SIMATIC BATCH V8.1 SP1.

The report template is not updated automatically with new SIMATIC BATCH versions. This means that the template could lead to functional limitations if used with later versions.
1 Task Description and Solution

1.3 Hardware and software components

Required knowledge
Fundamental knowledge of the following specialist fields is a prerequisite:
- SIMATIC BATCH

Core functionality
The following topics are described below:
- Integrating (uploading) the report template
- Checking the report template connection
- Customizing the report template using parameters

1.3 Hardware and software components

The application example has been created with the following components.

Hardware components

<table>
<thead>
<tr>
<th>Component</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIMATIC PCS 7 ES/OS IPC874D W7</td>
<td>For the PCS 7 V8.1 SP1/SIMATIC BATCH V8.1 SP1 example project with which the screenshots were created.</td>
</tr>
</tbody>
</table>

Note
In case of different hardware, please take heed of the suggested hardware configuration for installing the software components.
The suggested hardware configuration can be found in the Readme file of the PCS 7 (online).

Note
A fundamental example project is described in the application example "SIMATIC PCS 7 in the pharmaceutical industry "blood plasma fractionation" (demo project) and can be downloaded.

Software components

<table>
<thead>
<tr>
<th>Component</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIMATIC PCS 7 V8.1 SP1</td>
<td>Part of SIMATIC PCS 7 ES/OS IPC847D W7</td>
</tr>
<tr>
<td>SIMATIC BATCH V8.1 SP1</td>
<td>The license does not form part of SIMATIC PCS 7 ES/OS IPC847D</td>
</tr>
</tbody>
</table>
1 Task Description and Solution

1.3 Hardware and software components

Example files and projects

The following table contains all the files used in this application example.

<table>
<thead>
<tr>
<th>File</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>109481496_DOCU_Configurable_BATCH_Report_V811_en.pdf</td>
<td>This document</td>
</tr>
<tr>
<td>109481496_CODE_ReportFiles_BATCH_Report_V811.zip</td>
<td>Report templates</td>
</tr>
</tbody>
</table>
2 Integrating the report files

The necessary report template files are available for download from the article page. In order to use the report template, all supplied files must be uploaded to the Reporting Services database.

2.1 Uploading the report templates in the Reporting Services database

1. Open the Windows Start menu.
2. Start the program "Start > All programs > Microsoft SQL Server 2008 R2 > Configuration Tools > Reporting Services Configuration Manager".
3. Click the "Connect" button in the "Reporting Services Configuration Connection" window.
4. In the Menu, click on "Report Manager URL".
2 Integrating the report files

2.1 Uploading the report templates in the Reporting Services database

5. Then click on the "Report Manager Service" link. Internet Explorer opens.

Note

Save the link to the "Report Service Manager" as a favorite or set it as the home page. This way, you will always get quick access to the report templates.

6. Open the "SIMATIC BATCH 8.1 SP1 Reports" folder.
7. Click the "Upload file" button.
2 Integrating the report files

2.1 Uploading the report templates in the Reporting Services database

8. On the “Upload file” page, click the “Browse” button.
2 Integrating the report files

2.2 Checking the connection of the report templates

9. Upload the following supplied files:
   - "configurable_batch.rdl"
   - "configurable_subreport_sb_batch_tags_811.rdl"
   - "configurable_subreport_sb_batch_modifs_811.rdl"
   - "configurable_subreport_sb_batch_messages_811.rdl"
   - "configurable_subreport_sb_batch_messages_811_end_of_report.rdl"
   - "configurable_subreport_sb_batch_conditions_811.rdl"
   - "configurable_subreport_sb_batch_alloc_811.rdl"
   - "configurable_subreport_sb_batch_params_811.rdl"
   - "configurable_subreport_sb_batch_messages_811_Msg_End_Of_Report_with_StepNr.rdl"
   - subreport_sb_batch_tags_811.rdl
   - "Company_Logo.png"

Note

The Reporting Services are an application based on a database. The templates
are not files of the Windows file system but database objects that need to be
uploaded individually according to the project.

2.2 Checking the connection of the report templates

After you upload the report templates, you should verify whether they are displayed
correctly.

Procedure

1. Open the page titled “SIMATIC BATCH 8.1 SP1 Reports”.
2. Click on the “configurable_batch” report.
2 Integrating the report files

2.2 Checking the connection of the report templates

The report is opened.

3. Perform the test for all imported report templates.

If the following message appears, perform the additional steps described below:
2 Integrating the report files

2.2 Checking the connection of the report templates

4. Move the mouse cursor over the report template and click the arrow.

5. Click "Manage" in the shortcut menu.
2 Integrating the report files

2.2 Checking the connection of the report templates

6. Select menu command "Data Sources".

7. Click the “Browse” button.
2 Integrating the report files

2.2 Checking the connection of the report templates

8. Select "Home > SIMATIC BATCH 8.1 SP1 Data Sources" and click the "OK" button.

9. Click the "Apply" button.

10. Switch back to the page of the folder titled "SIMATIC BATCH 8.1 SP1 Reports" and check the remaining imported report templates.
2.3 Testing the report

Requirement

The test of the report template requires the execution of the steps described in chapters 2.1 and 2.2 of this document.

Procedure

1. Open the BATCH Control Center.
2. Create a print preview of any batch.
3. Select "Configurable" as the report template.

If the report templates are integrated properly, the report is generated correctly. If the report is not generated, repeat the steps described in chapters 2.1 and 2.2 of this document.
3 Assigning report parameters

To customize the report to certain requirements, you have to change the parameters of the report template "configurable_batch.rdl".

Procedure

1. Move the mouse cursor over the report template and click the arrow.
2. Click "Manage" in the shortcut menu.
3. Select the menu command "Parameters".

All parameters of the report template will be displayed. To change a parameter, click the arrow on the right in column 4. You can then change one or more values in the drop-down list.

If you do not want to make any changes, leave the value set to "Standard" or "Nothing".

When you are finished making changes, click the "Apply" button at the bottom of the page.

**Note** At least one parameter value must be selected, as it takes great effort to implement technical transformation without selecting at least one parameter. This also affects the traceability of the code or template.
Adjusting parameters

The following section gives a summary of the configurable parameters and their impact on the different areas of the report (report header, table of contents).

4.1 Page header

Overview of parameters

It is possible to adjust the page header from the following parameters:

- "Header_BackgroundColor"
- "Header_CompanyLogo"
- "Header_TextBig"
- "Header_TextSmall"

Representation of the page header color

The parameter "Header_BackgroundColor" enables you to change the background color of the page header. To change the color, enter the desired color in the text field behind the parameter "Header_BackgroundColor". You can choose any color from the standard color palette. The parameter "Header_BackgroundColor" is set to "NoColor" as standard.

Note

The desired constants for color values must be entered in English.
4 Adjusting parameters

4.1 Page header

Representation of the company logos

The "Header_CompanyLogo" parameter enables you to display a freely selectable company logo in the page header. The sample file already contains a possible company logo.

There are two ways of representing the "Header_CompanyLogo" parameter:

- Standard
  No company logo is displayed in the "Standard" setting. This corresponds to the standard BATCH report.

- Company logo
  When set to "Company Logo", the company logo is displayed in the page header.

In order for the company logo to be displayed, it must be uploaded under the name "Company_Logo.png". To achieve an optimum representation, it is recommended to have a ratio of 3:4 with the lowest possible resolution.

Note

If you want to change the background color and use a company logo, then you should choose a transparent background for your company logo.

Upload your company logo in the folder "SIMATIC BATCH 8.1 SP1 Reports", just like the report templates. The procedure is the same as the one for uploading the report templates.

Representation of individual texts

The parameters "Header_TextBig" and "Header_TextSmall" allow two blocks of text to be placed in the page header.

Note

The text blocks are displayed when the "Header_CompanyLogo" parameter is set to the "Company Logo" value.
4 Adjusting parameters

4.1 Page header

**NOTICE**

When using the "Header_TextSmall" parameter, make sure that the line breaks are created by adding spaces or the control character "\n". Do not exceed the maximum number of 4 lines. It is possible to insert approximately 29 characters per row, depending on the characters. A limited length of text is also possible for the "Header_TextBig" parameter. At least 18 characters can be used. If an excessively long text is used for the parameters "Header_TextBig" and "HeaderTextSmall", you have to expect unwanted line breaks and misplacement of other elements. These unwanted line breaks cause the page header to stretch, which in turn affects the entire length of the report.

**Line breaks using spaces**

The number of characters in one line depends on the width of the individual characters. The minimum amount is 29 characters.

<table>
<thead>
<tr>
<th>Header_TextSmall</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>A configuration with line breaks in a parameter is not possible, they must be realized by blanks and trying. Min29 chars per row, and max 4 rows available.</td>
<td>A configuration with line breaks in a parameter is not possible, they must be realized by blanks and trying. Min29 chars per row, and max 4 rows available.</td>
</tr>
</tbody>
</table>

**Line breaks using "\n"**

Another method is to produce the line breaks with the control characters "\n".

**Note**

This option is only possible for the parameter "Header_TextSmall", as the text must be first interpreted internally.

<table>
<thead>
<tr>
<th>Header_TextSmall</th>
<th>Result</th>
</tr>
</thead>
</table>
| Line 1\nLine 2\nLine 3 | Line 1  
Line 2  
Line 3 |
4 Adjusting parameters

4.2 Table of contents

Representation of longer texts

If excessively long texts are selected for the text parameter, it leads to unwanted line breaks. This changes the default position of other elements. Since the page header is displayed on every page, this line break can increase the length of the whole report by a few pages. The following table shows an example of the "Header_TextBig" parameter. The displayed behavior also applies to the "Header_TextSmall" parameter.

Table 4-3

<table>
<thead>
<tr>
<th>Correct text length</th>
<th>Text length too long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Header Text</td>
<td>Big Header Text to long+</td>
</tr>
<tr>
<td>Name / ID:</td>
<td>Blood 3 / 10</td>
</tr>
<tr>
<td>Produkt / Code:</td>
<td>Paste_1 / 0021</td>
</tr>
<tr>
<td>Druckdatum:</td>
<td>02.10.2015 12:51</td>
</tr>
<tr>
<td></td>
<td>++</td>
</tr>
<tr>
<td></td>
<td>Name / ID: Blood Report 3 / 17</td>
</tr>
<tr>
<td></td>
<td>Produkt / code: Paste_2 / 0031</td>
</tr>
</tbody>
</table>

4.2 Table of contents

Overview of parameters

The "TableOfContent" parameter allows you to change the representation of the table of contents.

Representation

There are three ways of representing the table of contents:

- standard
- with indent
- hide

When set to "Standard", the items will not be indented. This corresponds to the standard BATCH report.
4 Adjusting parameters

4.3 Hiding object types

When set to “with indent”, the items will be indented. This increases clarity. In addition to this, the activation counter is also displayed in color and the step ID is shown.

Table 4-4

<table>
<thead>
<tr>
<th>standard</th>
<th>with indent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhaltsverzeichnis</strong></td>
<td><strong>Inhaltsverzeichnis</strong></td>
</tr>
<tr>
<td>Sektion:</td>
<td>Sektion:</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Rezeptprozedurelemente:</td>
<td>Rezeptprozedurelemente:</td>
</tr>
<tr>
<td>Blood 3 _10 (1)</td>
<td>Blood 3 [10] (1)</td>
</tr>
<tr>
<td>RUP_THAWING_1 (1)</td>
<td>RUP_THAWING [1] (1)</td>
</tr>
<tr>
<td>Thawing_9 (1)</td>
<td>Thawing [9] (1)</td>
</tr>
<tr>
<td>EPH_V_STIR_2 (1)</td>
<td>EPH_V_STIR [2] (1)</td>
</tr>
</tbody>
</table>

When set to "hide", the table of contents is hidden completely.

4.3 Hiding object types

Overview of parameters

The "Hide Object Types" parameter enables you to hide the object types "WAIT", "NOP", "TRA", "ROP", "RUP" and "RPH".

Representation

The following options are available for the "HideObjectTypes" parameter.

- (Select All)
- Nothing
- ShowInTableOfContent
- WAIT
- NOP
- TRA
- ROP
- RPH
- RUP
- OPD

To hide individual object types in the whole report, you have to set the values of these properties correspondingly.
4 Adjusting parameters

4.4 Hiding report elements for levels

To display the hidden object types in the table of contents, you have to set the "ShowInTableOfContent" parameter. Hidden sections are then marked in gray.

<table>
<thead>
<tr>
<th>Sektion</th>
<th>Rezeptprozedurelemente</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blood 3_10 (1)</td>
</tr>
<tr>
<td>2</td>
<td>RUP_THAWING_1 (1)</td>
</tr>
<tr>
<td>3</td>
<td>Thawing_8 (1)</td>
</tr>
<tr>
<td>4</td>
<td>EPH_V_STIR_2 (1)</td>
</tr>
<tr>
<td>5</td>
<td>EPH_V_FILL_MAN_7 (1)</td>
</tr>
<tr>
<td>6</td>
<td>EPH_V_TEMP_1 (1)</td>
</tr>
<tr>
<td>7</td>
<td>Discharging_16 (1)</td>
</tr>
</tbody>
</table>

**NOTICE** The hidden objects are also counted in the numbering.

### 4.4 Hiding report elements for levels

#### Overview of parameters

Individual report elements of the BAT, RUP, ROP and RPH levels can be hidden with the following parameters:

- "BAT_Hide"
- "RUP_Hide"
- "ROP_Hide"
- "RPH_Hide"

#### Hiding no elements

If you do not want to hide any elements, set the value to "Nothing". This corresponds to the default setting.

#### Hiding the title block

To hide the step header of a level, set the "Step_Header" value. This option is available at all levels.
4 Adjusting parameters

4.4 Hiding report elements for levels

Hiding messages
To hide the messages of a level, set the "Messages" value. This option is available at all levels.

Note
If you chose the value "Msg_End_OF_Report" (or "Msg_End_OF_Report_STEPNR") for the "Msg" parameter, the messages are displayed regardless of the suppressions at the end of the report.

Hiding the description block
To hide the description block of a level, set the "DescriptionBlock" value. This option is available at all levels.

Hiding trends
To hide the trends of a level, set the "trends" value. This option is available at all levels.

Hiding transitions
To hide the transitions of a layer, set the "TRA_Con" value. The option is available at the RUP, ROP and RPH levels.

Hiding process parameters
To hide the process parameters of a level, set the "Parameter" value. This option is available at all levels.

Hiding the status history
To hide the status history, set the "StatusHistory" value. This option is only available at the "BAT" level.

Hiding the plant allocation
To hide the plant allocation, set the "PlantAllocation" value. This option is only available at the "BAT" level.

Hiding the editing history
To hide the editing history, set the "EditingHistory" value. This option is only available at the "BAT" level.
4.5 Object header representation

Overview of parameters

The representation of an object header in the report can be changed with the "Step_Header" parameter.

The following options are available for the "Step_Header" parameter:

- (Select All)
- Standard
- Custom
- Show Activation Counter
- Hide InPLC if not used
- Hide InPLC always

"Custom" representation

In addition to the standard view, there is also a "Custom" view. In this view, the control strategy is also displayed next to the name of the step.
"Activation Counter" representation

In order to display the "Activation Counter" in addition to the step number "StepNo", activate the check box "Show Activation Counter".

Representation of "hide InPLC if not used" and "hide InPLC always"

The option to run in AS is often not used. In this case, the field "In PLC" can be hidden by using the parameters "hide InPLC always" and "hide InPLC if not used". If the parameter "hide InPLC always" is set, the "In PLC" field is always hidden in the report. If the parameter "hide InPLC if not used" is set, the "In PLC" field is only hidden when the recipe phase is not executed in the CPU.

Note

To hide the "In PLC" field, you also have to set the "Custom" parameter.
4.6 General information

Overview of parameters

The representation of general information can be adjusted via the parameters "GenInfo_Format" and "GenInfo_Hide".

| GenInfo_Format | Integer | | | | GenInfo_Format |
|---------------|---------|---|---|-----------|
|               | Standard | | |          |

| GenInfo_Hide | Integer | | | | GenInfo_Hide |
|--------------|---------|---|---|-----------|
|               | Nothing | | |          |

The following options are available for the "GenInfo_Format" parameter:
- "standard"
- "two columns"
- "hide"

The following options are available for the "GenInfo_Hide" parameter:
- Nothing (corresponds to the standard report)
- Formula_always
- Formula_conditiona
- Description_always
- Description_conditiona

Representation of "GenInfo_Format"

The parameter "GenInfo_Format" enables you to display the general information between the standard view and the two column view.

- Standard View: For the standard view, set the parameter to "standard".

- Two column view: For representation with two columns, set the parameter to "two columns". Figure 4-3 "standard" above, "two columns" below

To hide the general information completely, set the parameter to "hide".
Representation of "GenInfo_Hide"

Individual parts of the general information are hidden by using the parameter "GenInfo_Hide". Parts that can be hidden include information on the recipe and the description. A distinction can be made between permanent and conditional hiding. In conditional hiding, no wildcards are displayed if no information is present.

To hide information permanently, set the values:

- Formula_always
- Description_always

To hide information conditionally, set the values:

- Formula_conditional
- Description_conditional
4 Adjusting parameters

4.7 Messages

4.7 Messages

Overview of parameters

You can adjust the representation of the messages from the "Msg" parameter.

<table>
<thead>
<tr>
<th>Msg</th>
<th>Integer</th>
<th>R</th>
<th>Standard</th>
<th>R</th>
<th>R</th>
<th>R</th>
</tr>
</thead>
</table>

The following options are available for the "Msg" parameter:

- Standard
- Custom
- User_WinCC_Color
- Msg_End_Of_Report
- Msg_End_Of_Report_with_STEPNO
- Group_by_Stepno
- Hide_Prio_0
- Hide_Prio_01
- Hide_Prio_02
- Hide_Prio_03
- Hide_Prio_04
- Hide_Prio_05
- Hide_Prio_06
- Hide_Prio_07
- Hide_Prio_08
- Hide_Prio_09
- Hide_Prio_10
- Hide_Prio_11
- Hide_Prio_12
- Hide_Prio_13
- Hide_Prio_14
- Hide_Prio_15
- Hide_Prio_16
- Hide_Alarm
- Hide_Warning
- Hide_Toleranzen
- Hide_AS Leittechnik
- Hide_OS Leittechnik
- Hide_Vorbeugende Wartung
- Hide_Prozessmeldung
- Hide_Betriebsmeldung
- Hide_Bedienanforderung
- Hide_Bedienmeldung
4 Adjusting parameters

4.7 Messages

- Hide_Status_Custom_KG
- Hide_Status-Meldung
- Hide_System, quittierpflichtig
- Hide_System, nicht quittierpflichtig

Representation

There are three ways of representing messages:

- Standard
- Custom
- End_Of_Report

When set to "Standard", the messages for each section of the recipe element are shown in four groups. They are allocated to the following four groups:

- Messages
- Faults
- Operator messages/operator prompts
- Limit violations

The following figure shows an example of a representation using the "Standard" setting.
4 Adjusting parameters

4.7 Messages

When set to "Custom", they are displayed in the respective section of the recipe element without allocation into groups and arranged chronologically. The status is represented by the following letters:

- C: CAME IN
- G: GONE
- Q: ACKNOWLEDGED
- V: DISPLAYED
- QS: SYSTEM ACKNOWLEDGED
- QE: NOT ACKNOWLEDGED

The following figure shows an example of representation with the setting "Custom".

By selecting "End_Of_Report", all messages are shown in chronological order at the end of the report.

**Note**

The "Custom" option must be set additionally.

If you select the "End_Of_Report_with_STEPNO" option, the step number is also displayed.
4 Adjusting parameters

4.7 Messages

The "Use_WINCC_Colors" option enables the messages to be represented in the familiar WinCC colors. The option is possible with "Custom" and "End_Of_Report" (End_Of_Report_STEPNO).

<table>
<thead>
<tr>
<th>Time</th>
<th>Date</th>
<th>Type</th>
<th>Priority</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:31:40</td>
<td>12-31-2023</td>
<td>0</td>
<td>V1</td>
<td>V11_Err_V_PHNPLG_CONTROL 253</td>
</tr>
<tr>
<td>12:31:39</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 159</td>
</tr>
<tr>
<td>12:31:38</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 100</td>
</tr>
<tr>
<td>12:31:37</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 50</td>
</tr>
<tr>
<td>12:31:36</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 0</td>
</tr>
<tr>
<td>12:31:35</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 0</td>
</tr>
<tr>
<td>12:31:34</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 0</td>
</tr>
<tr>
<td>12:31:33</td>
<td>12-31-2023</td>
<td>0</td>
<td>V11</td>
<td>V11_Err_V_PHNPLG_CONTROL 0</td>
</tr>
</tbody>
</table>

Hiding messages

If you don't want to show all messages in the report, you can hide messages with specific priorities or individual message classes. To hide messages with specific priorities, you can select the following options:

- Hide_Prio_0
- Hide_Prio_01
- Hide_Prio_02
- Hide_Prio_03
- Hide_Prio_04
- Hide_Prio_05
- Hide_Prio_06
- Hide_Prio_07
- Hide_Prio_08
- Hide_Prio_09
- Hide_Prio_10
- Hide_Prio_11
- Hide_Prio_12
- Hide_Prio_13
- Hide_Prio_14
- Hide_Prio_15
- Hide_Prio_16

To hide specific message classes, you can select the following options:

- Hide_Alarm
- Hide_Warning
- Hide_Toleranzen
- Hide_AS_Leittechnik
- Hide_OS_Leittechnik
- Hide_Vorbeugende_Wartung
- Hide_Prozessmeldung
4 Adjusting parameters

4.8 Plant allocation

- Hide_Betriebsmeldung
- Hide_Bedienanforderung
- Hide_Bedienmeldung
- Hide_Status_Custom_KG
- Hide_Status-Meldung
- Hide_System, quittierpflichtig
- Hide_System, nicht quittierpflichtig

The following figure shows an example of a representation with the settings "Custom", "Use_WINCC_Colors" and "Hide_Bedienmeldung".

4.8 Plant allocation

Overview of parameters

The parameter "PlantAllocation" enables you to change the representation of the plant allocation.

Representation

There are two ways of representing the plant allocation:

- Standard
- hide candidates

When set to "Standard", the plant allocation and the candidates are displayed.
4.9 Transitions

Overview of parameters

The "TRA" parameter enables you to change the representation of the transitions.

There are three ways of representing the transitions:
- Standard
- Custom Conditions
- Hide Aborted

When set to "Standard", the transitions are displayed with the column as follows:

<table>
<thead>
<tr>
<th>Logik</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_I</td>
<td>TRUE</td>
</tr>
</tbody>
</table>

When set to "Custom Conditions", the transitions are represented as follows:

<table>
<thead>
<tr>
<th>Logik</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_I</td>
<td>TRUE</td>
</tr>
</tbody>
</table>

If the "Hide Aborted" is also selected, the aborted transitions are hidden.

4.10 Trends

Overview of parameters

The "Trends" parameter enables you to change the representation of the trends.
4.10 Trends

Representation of trend curves

There are two ways of representing the trend curves:

- standard
- like_Standard

The "standard" setting corresponds to the representation of the standard BATCH reports. When set to "like_Standard", the axes of all curves of a section are scaled the same way. This enables better comparison of curves.

Representation of measured value summary and measured value information

There are two ways of representing the measured value summary and measured value information:

- standard
- Custom
- Hide Value Summary
- Hide Value Info

When set to "standard", the measured value summary and the measured value information is represented as in the standard BATCH report.

<table>
<thead>
<tr>
<th>Measured variable</th>
<th>Path</th>
<th>Min</th>
<th>Max</th>
<th>Unit of measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP_Temp</td>
<td>V111_EPU_U_TEMP</td>
<td>-0.195</td>
<td>0.1440</td>
<td>°C</td>
</tr>
<tr>
<td>SP_TempBar</td>
<td>V111_EPU_U_TEMP</td>
<td>-0.195</td>
<td>0.1440</td>
<td>°C</td>
</tr>
<tr>
<td>SP_Tolerance</td>
<td>V111_EPU_U_TEMP</td>
<td>1.0000</td>
<td>6.0000</td>
<td></td>
</tr>
</tbody>
</table>

When set to "Custom", the measured value count is also displayed in the measured value summary. The measured value information is represented in two columns to save space.

<table>
<thead>
<tr>
<th>Measured variable</th>
<th>Path</th>
<th>Count</th>
<th>Min</th>
<th>Max</th>
<th>Unit of measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP_Temp</td>
<td>V111_EPU_U_TEMP</td>
<td>93</td>
<td>-0.195</td>
<td>0.1440</td>
<td>°C</td>
</tr>
<tr>
<td>SP_TempBar</td>
<td>V111_EPU_U_TEMP</td>
<td>93</td>
<td>-0.195</td>
<td>0.1440</td>
<td>°C</td>
</tr>
<tr>
<td>SP_Tolerance</td>
<td>V111_EPU_U_TEMP</td>
<td>93</td>
<td>1.0000</td>
<td>6.0000</td>
<td></td>
</tr>
</tbody>
</table>

The "Hide Value Summary" and "Hide Value Info" settings enable you to hide the measured value summary and the measured value information.
4.11 Editing history

Overview of parameters

The "EditingHistory" parameter enables you to change the representation of the editing history.

There are two ways of representing the editing history:
- Standard
- Custom

The "Standard" setting enables the editing history to be displayed as in the standard BATCH report.

The "Custom" setting enables the editing history in the current state of the report templates to be represented similarly to the standard report templates.

4.12 Showing parameters

Overview of parameters

The "Listing_Parameter" parameter enables you to display the set report parameters in the report.
4 Adjusting parameters

4.12 Showing parameters

Representation

There are two ways of representing the overview of the set parameters:

- Hide
- Show

If the "Hide" value is set for the "Listing_Parameter" parameter, the set report parameters are not displayed in the report. This corresponds to the standard BATCH report.

If the "Show" value is set for the "Listing parameter" parameter, the set report parameters are summarized at the end of report.
5 References

Table 5-1

<table>
<thead>
<tr>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1\ Siemens Industry Online Support</td>
</tr>
<tr>
<td>2\ <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></td>
</tr>
<tr>
<td>3\ SIMATIC Process Control System PCS 7 SIMATIC BATCH V8.1 SP1 manual</td>
</tr>
<tr>
<td>4\ Programming Manual for SIMATIC BATCH Report Views following</td>
</tr>
<tr>
<td>installation of SIMATIC BATCH in the Start menu via SIMATIC &gt;</td>
</tr>
<tr>
<td>Documentation &gt; Language selection</td>
</tr>
</tbody>
</table>

6 History

Table 6-1

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1.0</td>
<td>01/2016</td>
<td>First edition</td>
</tr>
</tbody>
</table>