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CHAPTER 1

Description

This document is automatically generated. Because of this, the chapter 30 Visualization is not shown in this document. If you are interested in getting to know more about visualization, we refer to the library manager of e!Cockpit.

Subject to Changes

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Personnel Qualification

All tasks that are carried out with libraries made for the e!COCKPIT software must only be performed by qualified electrical specialists instructed in PLC programming according to IEC 61131-3.

All tasks that have an effect on the properties or the behavior of automation hardware or software products must only be performed by qualified employees with a thorough knowledge of handling the products concerned.

Intended Use of e!COCKPIT Libraries

Libraries created for the e!COCKPIT software are used to simplify the development of application projects in the IEC 61131-3 programming languages.

For automation tasks, WAGO offers programmable logic controllers in a wide variety of performance classes. In combination with a wide range of I/O modules, the controllers can process standard types of field signals. Controllers can be implemented centrally or in decentralized configurations. The controllers offer interfaces for the most commonly used fieldbuses for use in decentralized configurations. Fieldbus independent I/O modules are then linked via fieldbus couplers. WAGO controllers offer a runtime environment for user programs called e!RUNTIME. Software projects for implementation in e!RUNTIME environments can be created in e!COCKPIT. The programming environment in e!COCKPIT is based on the established CODESYS 3 industrial standard. Users with a previous knowledge of CODESYS 3 will thus find this environment largely familiar. The following programming languages of the IEC 61131-3 standard are available:

- Structured Text (ST)
- Ladder Diagram (LD)
- Function Block Diagram (FBD)
- Instruction List (IL)
- Sequential Function Chart (SFC)
- Continuous Function Chart (CFC)

The individual programming languages can also be combined as required during the development of the software. A portfolio of prepared libraries can be accessed for many frequently used functions in order to make software development more efficient. This document provides an overview of the WagoAppProcessorLoad that WAGO offers for e!COCKPIT.
Determines the current process load caused by the plc. ¹

Further library information are summarized here:

- **Company**  WAGO
- **Title**  WagoAppProcessorLoad
- **Version**  2.0.1.0
- **Categories**  Application
- **Namespace**  WagoAppProcessorLoad
- **Author**  WAGO / JSo
- **Placeholder**  WagoAppProcessorLoad

¹ Based on WagoAppProcessorLoad.library, last modified 13.08.2019, 21:01:28.
The content of this file was automatically generated with None on 13.08.2019, 21:01:30.
2.1 FbProcessorLoad (FB)

Provides access to the current processor load.

2.1.1 FbProcessorLoad.IsThreshold1Reached (PROP)
Is load above Threshold1?

2.1.2 FbProcessorLoad.IsThreshold2Reached (PROP)
Is load above Threshold2?

2.1.3 FbProcessorLoad.LogLevel (PROP)

2.1.4 FbProcessorLoad.OverloadAction (PROP)
OverloadAction

2.1.5 FbProcessorLoad.ProcessorLoad (PROP)
Current processor load in percent
NOTE: value can be well above 100, depending on the usilecShare.

2.1.6 FbProcessorLoad.Reinitialize (METH)

Interface variables
<table>
<thead>
<tr>
<th>Scope</th>
<th>Name</th>
<th>Type</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return</td>
<td>Reinitialize</td>
<td>eResultCode</td>
<td></td>
</tr>
<tr>
<td></td>
<td>usiThreshold1</td>
<td>USINT (0..100)</td>
<td>lower threshold for the processor load rel. to usiIecShare [0-usiThreshold2]</td>
</tr>
<tr>
<td>Input</td>
<td>usiThreshold2</td>
<td>USINT (0..100)</td>
<td>upper threshold for the processor load rel. to usiIecShare [usiThreshold1-100]</td>
</tr>
<tr>
<td></td>
<td>usiIecShare</td>
<td>USINT (1..100)</td>
<td>percentage of the processor share for iec-tasks. [1-100]</td>
</tr>
<tr>
<td></td>
<td>eOverloadAction</td>
<td>WagoTypesProcessorLoad.eOverloadAction</td>
<td>Reaction in case of overload (i.e. ProcessorLoad &gt;= usiIecShare).</td>
</tr>
<tr>
<td></td>
<td>eLogLevel</td>
<td>WagoTypesProcessorLoad.eLogLevel</td>
<td></td>
</tr>
</tbody>
</table>

Re-initializes the fb.

<table>
<thead>
<tr>
<th>result codes</th>
<th>meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>Success</td>
</tr>
<tr>
<td>EINVAL</td>
<td>Parameter out of range</td>
</tr>
</tbody>
</table>

### 2.1.7 FbProcessorLoad.Threshold1 (PROP)

Threshold1: Lower limit for the processor load

### 2.1.8 FbProcessorLoad.Threshold2 (PROP)

Threshold2: Upper limit for the processor load
### VersionHistory (GVL)

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Author</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.01.2019</td>
<td>2.0.1.0</td>
<td>u015842</td>
<td>Properties: free placeholder added</td>
</tr>
<tr>
<td>12/08/2016</td>
<td>2.0.0.0</td>
<td>LS</td>
<td>Fix for multiple instances from Fb_Init, fixes Reset Button Problem</td>
</tr>
<tr>
<td>04/21/2016</td>
<td>1.0.0.2</td>
<td>JSO</td>
<td>Fix misspelled placeholder and remove unused library references.</td>
</tr>
<tr>
<td>06/10/2015</td>
<td>1.0.0.1</td>
<td>JMü</td>
<td>ADD Placeholder AND resolve libraries with placeholders</td>
</tr>
<tr>
<td>08/25/2015</td>
<td>1.0.0.1</td>
<td>JSO</td>
<td>Fix IsThresholdXReached being TRUE for lower loads. Fix</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IsThresholdXReached being TRUE when not initialized. Publish all</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IEC Symbols from WagoTypesProcessorLoad.</td>
</tr>
<tr>
<td>07/09/2015</td>
<td>1.0.0.0</td>
<td>JSO</td>
<td>Created</td>
</tr>
</tbody>
</table>
Library Reference

This is a dictionary of all referenced libraries and their name spaces.

**IoStandard**
*Library Identification:*
Placeholder: IoStandard
Default Resolution: IoStandard, * (System)
Namespace: IoStandard

*Library Properties:*
- LinkAllContent: False
- QualifiedOnly: False
- SystemLibrary: False
- Optional: False

**SysTypes Interfaces**
*Library Identification:*
Name: SysTypes Interfaces
Version: newest
Company: System
Namespace: SysTypes

*Library Properties:*
- LinkAllContent: False
- QualifiedOnly: False
- SystemLibrary: False
- Optional: False

**WagoSysProcessorLoad**
*Library Identification:*
Placeholder: WagoSysProcessorLoad
Default Resolution: WagoSysProcessorLoad, * (WAGO)
Namespace: WagoSysProcessorLoad
Library Properties:

- LinkAllContent: False
- QualifiedOnly: False
- SystemLibrary: False
- Optional: False

WagoSysVersion

Library Identification:
Name: WagoSysVersion
Version: 1.0.0.0
Company: WAGO
Namespace: WagoSysVersion

Library Properties:

- LinkAllContent: False
- QualifiedOnly: False
- SystemLibrary: False
- Optional: False

WagoTypesCommon

Library Identification:
Placeholder: WagoTypesCommon
Default Resolution: WagoTypesCommon, * (WAGO)
Namespace: WagoTypes

Library Properties:

- LinkAllContent: False
- QualifiedOnly: False
- SystemLibrary: False
- Optional: False

WagoTypesProcessorLoad

Library Identification:
Placeholder: WagoTypesProcessorLoad
Default Resolution: WagoTypesProcessorLoad, * (WAGO)
Namespace: WagoTypesProcessorLoad

Library Properties:

- LinkAllContent: False
- Optional: False
- QualifiedOnly: True
- SystemLibrary: False
- PublishSymbolsInContainer: True