Subset of the
Technical Specification
PLCopen - Technical Committee 2 – Task Force
Function blocks for motion control
(Formerly Part 1 and Part 2)
Version 2.0
Appendix B
Compliance Procedure and Compliance List

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March 17, 2011.
Appendix B. Compliance Procedure and Compliance List

Listed in this Appendix are the requirements for the compliance statement from the supplier of the Motion Control Function Blocks. The compliance statement consists of two main groups: supported data types and supported Function Blocks, in combination with the applicable inputs and outputs. The supplier is required to fill out the tables for the used data types and Function Blocks, according to their product, committing their support to the specification.

By submitting these tables to PLCopen, and after approval by PLCopen, the list will be published on the PLCopen website, www.plcopen.org, as well as a shortform overview, as specified in Appendix B 2 Supported Data types and Appendix B 3 Overview of the Function Blocks as below.

In addition to this approval, the supplier is granted access and usage rights of the PLCopen Motion Control logo, as described in Appendix B 4:

The PLCopen Motion Control Logo and Its Usage...

Data types
The data type REAL listed in the Function Blocks and parameters (e.g. for velocity, acceleration, distance, etc.) may be exchanged to SINT, INT, DINT or LREAL without to be seen as incompliant to this standard, as long as they are consistent for the whole set of Function Blocks and parameters.
Implementation allows the extension of data types as long as the basic data type is kept. For example: WORD may be changed to DWORD, but not to REAL.

Function Blocks and Inputs and Outputs
An implementation which claims compliance with this PLCopen specification shall offer a set of Function Blocks for motion control, meaning one or more Function Blocks, with at least the basic input and output variables, marked as “B” in the tables. These inputs and outputs have to be supported to be compliant.
For higher-level systems and future extensions any subset of the extended input and output variables, marked as “E” in the tables can be implemented.
Vendor specific additions are marked with “V”, and can be listed as such in the supplier documentation.

- Basic input/output variables are mandatory
- Extended input/output variables are optional
- Vendor Specific additions

Marked in the tables with the letter “B”
Marked in the tables with the letter “E”
Marked in the vendor’s compliance documentation with “V”

All the vendor specific items will not be listed in the comparison table on the PLCopen website, but in the detailed vendor specific list, which also is published.
All vendor specific in- and outputs of all FBs must be listed in the certification list of the supplier. With this, the certification listing from a supplier describes all the I/Os of the relevant FBs, including vendor-specific extensions, and thus showing the complete FBs as used by the supplier.
Appendix B.1. Statement of Supplier

<table>
<thead>
<tr>
<th>Supplier name</th>
<th>B&amp;R Industrial Automation GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier address</td>
<td>B&amp;R Strasse 1</td>
</tr>
<tr>
<td>City</td>
<td>5142 Eggelsberg</td>
</tr>
<tr>
<td>Country</td>
<td>Austria</td>
</tr>
<tr>
<td>Telephone</td>
<td>+43 7748 6586 - 0</td>
</tr>
<tr>
<td>Fax</td>
<td>+43 7748 6586 - 26</td>
</tr>
<tr>
<td>Email address</td>
<td><a href="mailto:office@br-automation.com">office@br-automation.com</a></td>
</tr>
<tr>
<td>Product Name</td>
<td>mapp Motion</td>
</tr>
<tr>
<td>Product version</td>
<td>V5.00.0</td>
</tr>
<tr>
<td>Release date</td>
<td>01.12.2017</td>
</tr>
</tbody>
</table>

I hereby state that the following tables as filled out and submitted do match our product as well as the accompanying user manual, as stated above.

Name of representation (person): Dipl.-Ing. Dr. Gernot Bachler, Technical Manager Business Unit Motion

Date of signature (dd/mm/yyyy): 23/11/2017

Signature: [Signature]
Appendix B 2. Supported Data types

<table>
<thead>
<tr>
<th>Defined datatypes with MC library</th>
<th>Supported</th>
<th>If not supported, which datatype used</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOL</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>INT</td>
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<tr>
<td>WORD</td>
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<td>REAL</td>
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<td>ENUM</td>
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</tr>
<tr>
<td>UINT</td>
<td>YES</td>
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</table>

Table 1: Supported datatypes

Within the specification the following derived datatypes are defined. Define which of these structures are used in this system:

<table>
<thead>
<tr>
<th>Derived datatypes:</th>
<th>Where used</th>
<th>Supported</th>
<th>Which structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXIS_REF (extended)</td>
<td>MC_MoveAbsolute</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MC_MoveVelocity</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>YES</td>
<td>As pointer to vendor specific structure called McAxisTypeName is McDirectionEnum</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Name is McDirectionEnum</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MC_DIRECTION</td>
<td>MC_PositionProfile</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO</td>
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<td>MC_TV_REF</td>
<td>MC_VelocityProfile</td>
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<td>MC_TA_REF</td>
<td>MC_AccelerationProfile</td>
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<td>NO</td>
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<tr>
<td>MC_CAM_REF (extended)</td>
<td>MC_CamTableSelect</td>
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<td>MC_START_MODE (extended)</td>
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<td>Buffered FBs</td>
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<td>MC_EXECUTION_MODE</td>
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<td>MC_SOURCE</td>
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<td>Name is McValueSrcEnum</td>
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Table 2: Supported derived datatypes
## Appendix B 3. Overview of the Function Blocks

<table>
<thead>
<tr>
<th>Single Axis Function Blocks</th>
<th>Supported as V1.0/ V1.1/ V2.0 or Not</th>
<th>Comments (&lt;= 48 char.)</th>
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<tbody>
<tr>
<td>MC_Power</td>
<td>V2.0</td>
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<tr>
<td>MC_Home</td>
<td>V2.0</td>
<td></td>
</tr>
<tr>
<td>MC_Stop</td>
<td>V2.0</td>
<td></td>
</tr>
<tr>
<td>MC_Halt</td>
<td>V2.0</td>
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</tr>
<tr>
<td>MC_MoveAbsolute</td>
<td>V2.0</td>
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</tr>
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<td>MC_MoveRelative</td>
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<tr>
<td>MC_MoveAdditive</td>
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<td>MC_MoveSuperimposed</td>
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<td></td>
</tr>
<tr>
<td>MC_HaltSuperimposed</td>
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<td></td>
</tr>
<tr>
<td>MC_MoveVelocity</td>
<td>V2.0</td>
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</tr>
<tr>
<td>MC_MoveContinuousAbsolute</td>
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<td>MC_MoveContinuousRelative</td>
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<td>MC_TorqueControl</td>
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<td>MC_PositionProfile</td>
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<tr>
<td>MC_VelocityProfile</td>
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<td>MC_AccelerationProfile</td>
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<td>MC_SetPosition</td>
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<td>MC_SetOverride</td>
<td>V2.0</td>
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<tr>
<td>MC_ReadParameter &amp; MC_ReadBoolParameter</td>
<td>V2.0</td>
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<tr>
<td>MC_WriteParameter &amp; MC_WriteBoolParameter</td>
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<tr>
<td>MC_ReadDigitalInput</td>
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<td>MC_ReadDigitalOutput</td>
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<td>MC_WriteDigitalOutput</td>
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<tr>
<td>MC_ReadActualPosition</td>
<td>V2.0</td>
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<td>MC_ReadActualVelocity</td>
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<td>MC_ReadActualTorque</td>
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<td>MC_ReadAxisInfo</td>
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<td>MC_ReadAxisError</td>
<td>V2.0</td>
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<td>MC_Reset</td>
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<tr>
<td>MC_DigitalCamSwitch</td>
<td>NO</td>
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<tr>
<td>MC_TouchProbe</td>
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<td></td>
</tr>
<tr>
<td>MC_AbortTrigger</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td><strong>GC Function Blocks</strong></td>
<td>Supported as V1.0/ V1.1/ V2.0 or Not</td>
<td>Comments (&lt;= 48 char.)</td>
</tr>
<tr>
<td>MC_CamTableSelect</td>
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<tr>
<td>MC_CamIn</td>
<td>NO</td>
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</tr>
<tr>
<td>MC_CamOut</td>
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<td></td>
</tr>
<tr>
<td>MC_GearIn</td>
<td>V2.0</td>
<td></td>
</tr>
<tr>
<td>MC_GearOut</td>
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<tr>
<td>MC_GearInPos</td>
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<tr>
<td>MC_PhasingAbsolute</td>
<td>NO</td>
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<tr>
<td>MC_PhasingRelative</td>
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<tr>
<td><strong>MC_Console</strong></td>
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Table 3: Short overview of the Function Blocks
### Appendix B 3.1 MC_Power

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<tr>
<th>VAR_IN/OUT</th>
<th>MC_Power</th>
<th>Sup. Y/N</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Axis</td>
<td>YES</td>
<td>VAR_INPUT instead of VAR_IN_OUT</td>
</tr>
<tr>
<td>B</td>
<td>Enable</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>EnablePositive</td>
<td>NO</td>
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<tr>
<td>E</td>
<td>EnableNegative</td>
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<tr>
<td>B</td>
<td>Status</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Valid</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>Busy</td>
<td>YES</td>
<td>FB is active and needs to be called</td>
</tr>
<tr>
<td>B</td>
<td>Error</td>
<td>YES</td>
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</tr>
<tr>
<td>E</td>
<td>ErrorID</td>
<td>YES</td>
<td>Data type DINT instead of WORD</td>
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### Appendix B 3.2 MC_Home

<table>
<thead>
<tr>
<th>VAR_IN/OUT</th>
<th>MC_Home</th>
<th>Sup. Y/N</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Axis</td>
<td>YES</td>
<td>VAR_INPUT instead of VAR_IN_OUT</td>
</tr>
<tr>
<td>B</td>
<td>Execute</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Position</td>
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<td></td>
</tr>
<tr>
<td>V</td>
<td>HomingMode</td>
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<td>McHomingModeEnum</td>
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<tr>
<td>E</td>
<td>BufferMode</td>
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<td></td>
</tr>
<tr>
<td>B</td>
<td>Done</td>
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</tr>
<tr>
<td>E</td>
<td>Busy</td>
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<td>Active</td>
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<td>CommandAborted</td>
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<td>B</td>
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<td>E</td>
<td>ErrorID</td>
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<td>Data type DINT instead of WORD</td>
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### Appendix B 3.3 MC_Stop

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<th>Sup. Y/N</th>
<th>Comments</th>
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<td>VAR_INPUT instead of VAR_IN_OUT</td>
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TC2 Task Force Motion Control March 17, 2011 © 1999 - 2011 copyright by PLCopen Function Blocks for Motion Control Version 2.0, Appendix B Compliance Procedure and Compliance List page 14/26
### Appendix B 3.20 MC_WriteParameter & MC_WriteBoolParameter

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TC2 Task Force Motion Control   March 17, 2011   © 1999 - 2011 copyright by PLCopen
Function Blocks for Motion Control     Version 2.0, Appendix B        page 22/26
Compliance Procedure and Compliance List
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Appendix B 4. The PL-Copen Motion Control Logo and Its Usage

For quick identification of compliant products, PL-Copen has developed a logo for the Motion Control Function Blocks:

![PLCopen Motion Control Logo](image)

**Figure 1: The PL-Copen Motion Control Logo**

This motion control logo is owned and trademarked by PL-Copen.

In order to use this logo free-of-charge, the relevant company has to fulfill all the following requirements:

1. the company has to be a voting member of PL-Copen;
2. the company has to comply with the existing specification, as specified by the PL-Copen Task Force Motion Control, and as published by PL-Copen, and of which this statement is a part;
3. this compliance application is provided in written form by the company to PL-Copen, clearly stating the applicable software package and the supporting elements of all the specified tables, as specified in the document itself;
4. in case of non-fulfillment, which has to be decided by PL-Copen, the company will receive a written statement concerning this from PL-Copen. The company will have a one month period to either adopt their software package in such a way that it complies, represented by the issuing of a new compliance statement, or remove all reference to the specification, including the use of the logo, from all their specification, be it technical or promotional material;
5. the logo has to be used as is - meaning the full logo. It may be altered in size providing the original scale and color setting is kept.
6. the logo has to be used in the context of Motion Control.