Important User Information

Liability

Every care has been taken in the preparation of this document. Please inform HMS Industrial Networks AB of any inaccuracies or omissions. The data and illustrations found in this document are not binding. We, HMS Industrial Networks AB, reserve the right to modify our products in line with our policy of continuous product development. The information in this document is subject to change without notice and should not be considered as a commitment by HMS Industrial Networks AB. HMS Industrial Networks AB assumes no responsibility for any errors that may appear in this document.

There are many applications of this product. Those responsible for the use of this device must ensure that all the necessary steps have been taken to verify that the applications meet all performance and safety requirements including any applicable laws, regulations, codes, and standards.

HMS Industrial Networks AB will under no circumstances assume liability or responsibility for any problems that may arise as a result from the use of undocumented features, timing, or functional side effects found outside the documented scope of this product. The effects caused by any direct or indirect use of such aspects of the product are undefined, and may include e.g. compatibility issues and stability issues.

The examples and illustrations in this document are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular implementation, HMS Industrial Networks AB cannot assume responsibility for actual use based on these examples and illustrations.

Intellectual Property Rights

HMS Industrial Networks AB has intellectual property rights relating to technology embodied in the product described in this document. These intellectual property rights may include patents and pending patent applications in the USA and other countries.

Trademark Acknowledgements

Anybus® is a registered trademark of HMS Industrial Networks AB. All other trademarks are the property of their respective holders.
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1 Preface

1.1 About this Document

This document is intended to provide a good understanding of the concepts and requirements associated with network certification procedures, and how they relate to embedded Anybus products.

The reader of this document is expected to be familiar with Anybus networking technology, and industrial communication systems in general.

For additional related documentation and information, please visit the support website at www.anybus.com/support.

1.2 About this document

This document is intended to provide a good understanding of the functionality offered by the network certification information. The document describes the features that are specific to network certification information. For general information regarding Anybus CompactCom 40, consult the Anybus CompactCom 40 design guides.

The reader of this document is expected to be familiar with high level software design and communication systems in general. The information in this network guide should normally be sufficient to implement a design. However if advanced network specific functionality is to be used, in-depth knowledge of network networking internals and/or information from the official network specifications may be required. In such cases, the persons responsible for the implementation of this product should either obtain the network specification to gain sufficient knowledge or limit their implementation in such a way that this is not necessary.

For additional related documentation and file downloads, please visit the support website at www.anybus.com/support.

1.3 Related Documents

<table>
<thead>
<tr>
<th>Document</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anybus CompactCom 40 Software Design Guide</td>
<td>HMS</td>
</tr>
<tr>
<td>Anybus CompactCom M40 Hardware Design Guide</td>
<td>HMS</td>
</tr>
<tr>
<td>Anybus CompactCom Host Application Implementation Guide</td>
<td>HMS</td>
</tr>
<tr>
<td>CIP specification, Volumes 1 (CIP Common) and 2 (EtherNet/IP)</td>
<td>ODVA</td>
</tr>
</tbody>
</table>

1.4 Document History

Summary of changes in this version

<table>
<thead>
<tr>
<th>Change</th>
<th>Where (section no.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Separated and updated PROFINET and PROFIBUS</td>
<td>3.11, 3.12</td>
</tr>
<tr>
<td>Updated contact details for ODVA networks</td>
<td></td>
</tr>
<tr>
<td>Removed AS-Interface</td>
<td></td>
</tr>
</tbody>
</table>

Revision list

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=1.30</td>
<td>-</td>
<td>(see previous documents)</td>
</tr>
<tr>
<td>2.00</td>
<td>2008-01-30</td>
<td>Major rewrite</td>
</tr>
<tr>
<td>2.01</td>
<td>2008-04-17</td>
<td>Minor update</td>
</tr>
</tbody>
</table>
### 1.5 Conventions

Unordered (bulleted) lists are used for:

- Itemized information
- Instructions that can be carried out in any order

Ordered (numbered or alphabetized) lists are used for instructions that must be carried out in sequence:

1. First do this,
2. Then open this dialog, and
   a. set this option...
   b. …and then this one.

**Bold typeface** indicates interactive parts such as connectors and switches on the hardware, or menus and buttons in a graphical user interface.

**Monospaced text** is used to indicate program code and other kinds of data input/output such as configuration scripts.

This is a cross-reference within this document: *Conventions, p. 4*

This is an external link (URL): [www.hms-networks.com](http://www.hms-networks.com)

---

ℹ️ This is additional information which may facilitate installation and/or operation.

⚠️ This instruction must be followed to avoid a risk of reduced functionality and/or damage to the equipment, or to avoid a network security risk.

⚠️ **Caution**
This instruction must be followed to avoid a risk of personal injury.

⚠️ **WARNING**
This instruction must be followed to avoid a risk of death or serious injury.

---

### 1.6 Document Specific Conventions

- The terms “Anybus” or “module” refers to the Anybus CompactCom module.
- The terms “host” or “host application” refer to the device that hosts the Anybus.
- Hexadecimal values are written in the format NNNNh or 0xNNNN, where NNNN is the hexadecimal value.
- A byte always consists of 8 bits.
• The terms “basic” and “extended” are used to classify objects, instances and attributes.
• The expression ‘A»B’ means ‘a transition from A to B’.

## 1.7 Glossary

<table>
<thead>
<tr>
<th>Word</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anybus</td>
<td>Anybus networking technology.</td>
</tr>
<tr>
<td>End product</td>
<td>Product in which the Anybus network interface is used.</td>
</tr>
<tr>
<td>Host application, host system</td>
<td>Embedded Anybus network interface card from HMS.</td>
</tr>
<tr>
<td>Network interface</td>
<td></td>
</tr>
<tr>
<td>Module</td>
<td></td>
</tr>
<tr>
<td>Network certification Conformance tests</td>
<td>Process in which the network communication is verified to comply with network standard requirements.</td>
</tr>
</tbody>
</table>
2 General Information

2.1 HMS Industrial Networks AB Conformance Test Policy

2.1.1 General

Certification for network compliance is an important approval for industrial communication equipment, ensuring quality and interoperability. The HMS range of embedded Anybus communication products are used all over the world by leading manufacturers of industrial automation products. To ensure that customers always can rely on HMS technology, our policy is to precertify our embedded products for network compliance. This applies to most industrial networks, with some exceptions. Please consult the support pages at www.anybus.com/support for further information. Certification tests are normally carried out by the network organization, in-house through the aid of tools supplied by the network organization, or with help from certain reference customers.

Declarations of network compliance can be downloaded from www.anybus.com/support. In case a particular certificate is unavailable, this means that the certification is pending due to redesign or for other reasons that may affect certification. In such case, contact HMS for further information.

2.1.2 Scope of HMS Certification Tests

All tests are based on a typical usage scenario, and ensures network compliance under the condition that the interface is running using typical (default) operational settings.

It is important to recognize that the tests are made to verify proper operation of our network implementation and to ensure that end products utilizing it can be certified - not necessarily to enable customers to avoid certification altogether.

The inherent flexibility of the Anybus concept allows the behavior of the interface to be altered in ways which cannot possibly be catered for by the HMS certification tests. Operating the interface in ways which deviate from typical (default) operational settings invalidates HMS certification tests, and consequently a full re-certification of the end product is required. In some cases this is inevitable, e.g. when the network organisation requires that all vendors use unique network identity settings.

In case of questions, contact HMS and/or your nearest conformance test center.
2.2 Certified Product vs. Certified Network Interface

The Anybus concept may in certain cases allow the behavior of the network interface to be altered in ways which are not in line with network conformance requirements. For example, certain members of the Anybus CompactCom platform allow large parts of the network communication to be routed into the firmware of the host application, in which case the actual software implementation in the host application determines whether or not the network interface can be certified. In such case, certification of the end product must be made to ensure that the implementation hasn’t affected network compliance. Generally, implementations of this kind require in-depth knowledge in the operating fundamentals of the network in question. To find out whether or not a certain type of implementation can be certified, contact HMS and/or your nearest conformance test centre.

Some network organisations may allow the combination of an uncertified product with a certified network interface. Although this may in some cases make it possible to sell the end product without having to perform network certification tests, this approach is generally not endorsed by HMS.

In case of questions, contact HMS and/or your nearest conformance test centre.

2.3 Network Identity Settings

Deviations from typical operational settings require the use of custom network identity settings (i.e. “Vendor ID”) and, when applicable, a custom configuration file (i.e. “GSD”- or “EDS”-file). Furthermore, some network organizations require the use of custom identity settings even if using the standard operating settings. In either case, HMS recommends customization of network identity, since this significantly improves identification and troubleshooting procedures when setting up the network communication.

In case of questions, contact HMS and/or your nearest conformance test centre.

2.4 Membership and Network Logo

Generally, membership in the network organisation is a prerequisite in order to be able to certify the end product. This also applies to the network name and logo, for which the use in some cases even requires a complete certification of the end product.

As stated previously, most products, in the HMS range of embedded network interface products, are precertified for network compliance. This can, in some cases, be used as a reference for the end product, both as a statement of network conformance (when used with standard operational settings) and for the use of network logos. It must however be clearly stated in the product documentation that this applies to the network interface and not to the complete product.
3 Networks and Organizations

3.1 General Information

Certifying a device for network compliance involves contacting the network organisation to obtain information about a recommended test facility. The device must then be shipped to this facility, which then verifies that the device conforms to the network specification.

In some cases, the complexity and cost of such procedures are reduced due to the precertification of the Anybus network interface, but this differs depending on the network type and what policies and regulations that apply to that particular facility.

See also ...

- BACnet, p. 9
- CANopen, p. 10
- CC-Link, p. 11
- ControlNet, p. 12
- DeviceNet, p. 13
- EtherNet/IP, p. 14
- EtherCAT, p. 15
- LonWorks, p. 16
- POWERLINK, p. 17
- PROFIBUS, p. 18
- PROFINET, p. 19
- Sercos III, p. 20
3.2 BACnet

Manufacturers of BACnet products can prove that their devices conform to the BACnet standard ISO 16484-5/ANSI ASHRAE 135 through conformance testing at a recognized and accredited testing center.

To be able to state BACnet compliance for the end product, the final implementation will need to pass certification tests at a certified test facility.

Price indication (2012-03-28):

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Fee (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial and recertification fee (per certification process)</td>
<td>500</td>
</tr>
<tr>
<td>Certification fee for each product</td>
<td>50</td>
</tr>
<tr>
<td>Issuing of certificates</td>
<td>60</td>
</tr>
<tr>
<td>Annual certification fee per certificate</td>
<td>120</td>
</tr>
<tr>
<td>Annual fee per certified product</td>
<td>24</td>
</tr>
</tbody>
</table>

In addition to these fees, the organization charges 105 € per hour for testing and this is mandatory. An indication from the organization states that the testing procedure will take at least 7 days.

Contact information:

- [www.bacnet.org](http://www.bacnet.org)
- [www.big-eu.org](http://www.big-eu.org)
3.3 CANopen

Products which claim CANopen compliance must pass conformance tests at a certified test facility. HMS embedded products for CANopen are successfully tested for precompliance and found to comply with CANopen specifications. Test reports etc. are available and registered at CAN in Automation (CiA).

The use of certified CANopen networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state CANopen compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility. Due to the vast customization possibilities found in Anybus concept, the use of such technology alone does in itself not constitute a discount on the certification fee.

According to CANopen conformance policies, each CANopen node is required to have a unique CAN ID, which can be ordered from CAN in Automation (CiA) via their official website.

Price indication (2012-03-28):

<table>
<thead>
<tr>
<th>Service</th>
<th>Non- CiA Members</th>
<th>CiA -members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic rate per device test session (certificate included)</td>
<td>500 €</td>
<td>300 €</td>
</tr>
<tr>
<td>Basic rate per family test session (three device test sessions and certificate included)</td>
<td>1167 €</td>
<td>700 €</td>
</tr>
<tr>
<td>Rate per hour</td>
<td>80 €</td>
<td>80 €</td>
</tr>
</tbody>
</table>

For more information on how to become a member, please contact the CAN in Automation group.

Contact information:

- www.can-cia.org/
3.4 **CC-Link**

Products which claim CC-Link compliance must pass conformance tests at a certified test facility. HMS embedded products for CC-Link are successfully tested for precompliance and found to comply with CC-Link specifications.

The use of certified CC-Link networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state CC-Link compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility.

Price indication (2012-03-28):

- **CC-Link Conformance Test Fees**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Fee (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Station</td>
<td>2800</td>
</tr>
<tr>
<td>Local Station (using Q50BD-CCV2)</td>
<td>2500</td>
</tr>
<tr>
<td>Intelligent Device Station</td>
<td>2500</td>
</tr>
<tr>
<td>Remote Device Station (Version 2.0, using MFP3)</td>
<td>2000</td>
</tr>
<tr>
<td>Remote Device Station (Version 1.1, using MFP3)</td>
<td>1800</td>
</tr>
<tr>
<td>Remote I/O Station (using MFP2 or MFP2A)</td>
<td>1400</td>
</tr>
</tbody>
</table>

- **CC-Link IE Conformance Test Fees**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Fee (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLMP compatible devices</td>
<td>500</td>
</tr>
<tr>
<td>CC-Link IE recommended wiring parts</td>
<td>1000</td>
</tr>
</tbody>
</table>

Contact information:

- [www.cclinkamerica.org/](http://www.cclinkamerica.org/)
- [www.clpa-europe.com/](http://www.clpa-europe.com/)
3.5 ControlNet

Products which claim ControlNet compliance must pass conformance tests at a certified test facility. HMS embedded products for ControlNet are successfully tested for precompliance and found to comply with ControlNet specifications. Test reports etc. are available and registered at ControlNet International.

The use of certified ControlNet networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state ControlNet compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility. Due to the vast customization possibilities found in Anybus concept, the use of such technology alone does in itself not constitute a discount of the certification fee. However, using certified Anybus technology usually means that the test procedure is very easy and predictable.

According to ControlNet conformance policies, each ControlNet vendor is required to have a unique Vendor ID, which can be ordered from the ControlNet Organisation via their official website.

Price indication:

Select Submit order and Conformance testing on www.odva.org/ to get an indication of the price.

Contact Information:

- www.odva.org/
3.6 DeviceNet

Products which claim DeviceNet compliance must pass conformance tests at a certified test facility. HMS embedded products for DeviceNet are successfully tested for precompliance and found to comply with DeviceNet specifications. Test reports etc. are available and registered at the Open DeviceNet Vendor Association (ODVA).

The use of certified DeviceNet networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state DeviceNet compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility. Due to the vast customization possibilities found in Anybus concept, the use of such technology alone does in itself not constitute a discount of the certification fee. However, using certified Anybus technology usually means that the test procedure is very easy and predictable.

According to DeviceNet conformance policies, each DeviceNet vendor is required to have a unique Vendor ID, which can be ordered from ODVA via their official website.

Price indication:

Select Submit order and Conformance testing on www.odva.org/ to get an indication of the price.

Contact Information:

- www.odva.org/
3.7 EtherNet/IP

Products which claim EtherNet/IP compliance must pass conformance tests at a certified test facility. HMS embedded products for EtherNet/IP are successfully tested for precompliance and found to comply with EtherNet/IP specifications. Test reports etc. are available and registered at the Open DeviceNet Vendor Association (ODVA).

The use of certified EtherNet/IP networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state EtherNet/IP compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility. Due to the vast customization possibilities found in Anybus concept, the use of such technology alone does in itself not constitute a discount of the certification fee.

According to EtherNet/IP conformance policies, each EtherNet/IP vendor is required to have a unique Vendor ID, which can be ordered from ODVA via their official website.

Price indication:

Select Submit order and Conformance testing on www.odva.org/ to get an indication of the price.

Contact Information:

- www.odva.org/
3.8 EtherCAT

Products which claim EtherCAT compliance must pass conformance tests at a certified test facility. HMS embedded products for EtherCAT are successfully tested for precompliance and found to comply with EtherCAT specifications. Test reports etc. are available and registered at EtherCAT Technology Group.

The use of certified EtherCAT networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state EtherCAT compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility.

Each EtherCAT compliant device has to implement the worldwide unique Vendor ID assigned by ETG. The EtherCAT Vendor ID Usage is governed by the ETG Vendor ID Policy and the corresponding Vendor ID agreement, which asks for conformance with the EtherCAT specifications.

For prices please contact the EtherCAT Test Center in Nuremberg directly.

EtherCAT Test Center (ETC), Nuremberg
c/o Beckhoff Automation GmbH
Ostendstr 196
90482 Nuremberg, Germany

Phone: +49 911 - 54056 18
Fax: +49 911 - 54056 29
E-mail: etc@beckhoff
Web: www.beckhoff.com

EtherCAT Test Center (ETC), Kyoto
EtherCAT Test Center
ASTEM RI
134 ChudojiMinami-machi, Shimogyo,
Kyoto 600-8813, Japan

Phone: +81 (75) 366 0143
Fax: +81 (75) 315 2899
E-mail: etc@testlab.astem.or.jp
Web: www.testlab.astem.or.jp

Contact Information:

• www.ethercat.org
3.9 LonWorks

For technical reasons, HMS embedded products for LonWorks are not precertified for network compliance. To be able to pass certification tests, the product must implement one of the profiles defined in the LonWorks specification. Due to the nature of the Anybus concept, the actual profile is defined by the application, which means that the network interface can only be tested for network compliance in its final implementation. HMS has however made extensive analysis and verification of the Anybus LonWorks implementation to ensure compliance with the LonWorks specification.

Price indication (2012-03-28):

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Fee (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Tool License</td>
<td>200</td>
</tr>
<tr>
<td>New Certification</td>
<td>200</td>
</tr>
<tr>
<td>Upgrades (devices replacing older devices)</td>
<td>100</td>
</tr>
<tr>
<td>Administrative Changes</td>
<td>100</td>
</tr>
</tbody>
</table>

Contact information:

- [www.lonmark.org/](http://www.lonmark.org/)
3.10 POWERLINK

Products which claim POWERLINK compliance must pass conformance tests at a certified test facility.

The use of certified POWERLINK networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state POWERLINK compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility.

The Institute of Embedded Systems at Zurich University of Applied Science is the sole provider of POWERLINK certification services.

Institute of Embedded Systems
Technikumstr. 9
P.O.Box
CH-8401 Winterthur

Phone: +41 58 934 75 25
Fax: +41 58 935 75 25
E-mail: info.ines@zhaw.ch

Price indication (2012-03-28):

Fees of €2000 per product / product group are payable in advance. The EPSG will bear the cost of this fee for its members for the first product / product group. The fee includes a maximum of two days of testing through the certification site. Further additional expenditure (e.g. caused by faulty appliances or devices) will be charged at a fee of €800 per day.

Product groups are to be understood as devices in the same device family (for example Servo drives, I/O assembly groups, rotary encoders etc.) that use a common POWERLINK platform (hard- and software).

Contact information:

- www.ethernet-powerlink.org
- www.ines.zhaw.ch/en/
3.11 PROFIBUS

Products which claim PROFIBUS compliance must pass conformance tests at a certified test facility. HMS embedded products for PROFIBUS are successfully tested for precompliance and found to comply with PROFIBUS specifications. Test reports etc. are available and registered at the PROFIBUS Organisation (PNO).

The use of certified PROFIBUS networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state PROFIBUS compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility.


<table>
<thead>
<tr>
<th>Service</th>
<th>Price (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP-V0</td>
<td>2500</td>
</tr>
<tr>
<td>DP-V1 (MS1)</td>
<td>530</td>
</tr>
<tr>
<td>DP-V1 (MS2)</td>
<td>530</td>
</tr>
<tr>
<td>DP-V1 (Alarms)</td>
<td>820</td>
</tr>
<tr>
<td>DP-V1 (I&amp;M)</td>
<td>400</td>
</tr>
</tbody>
</table>

For more information, contact one of the test labs listed here:

- [http://www.profibus.com/pi-organization/institutions-support/test-labs/](http://www.profibus.com/pi-organization/institutions-support/test-labs/)
3.12 PROFINET

Products which claim PROFINET compliance must pass conformance tests at a certified test facility. HMS embedded products for PROFINET are successfully tested for precompliance and found to comply with PROFINET specifications. Test reports etc. are available and registered at the PROFIBUS Organization (PNO).

The use of certified PROFINET networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state PROFINET compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility.

It is not possible to test Anybus-S, Anybus IC or Anybus CompactCom 30 devices for PROFINET compliance.

Price indication (2016-09–29):

<table>
<thead>
<tr>
<th>Service</th>
<th>Prices (EUR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conformance Class B</td>
<td>3750</td>
</tr>
<tr>
<td>Conformance Class C</td>
<td>5500</td>
</tr>
<tr>
<td>PROFIsafe</td>
<td>1450</td>
</tr>
<tr>
<td>PROFIenergy</td>
<td>990</td>
</tr>
</tbody>
</table>

For more information, contact one of the test labs listed here:

- [http://www.profibus.com/pi-organization/institutions-support/test-labs/](http://www.profibus.com/pi-organization/institutions-support/test-labs/)
3.13 **Sercos III**

Products which claim Sercos III compliance must pass conformance tests at a certified test facility. HMS embedded products for Sercos III are successfully tested for precompliance and found to comply with Sercos III specifications.

The use of certified Sercos III networking technology (e.g. Anybus) does not automatically make the end product certified. To be able to state Sercos III compliance for the end product, the final implementation will need to pass further certification tests at a certified test facility.

Price indication (2012-03-28):

<table>
<thead>
<tr>
<th>Fees (Slave Devices)</th>
<th>Non-Member Price</th>
<th>Member Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Charge</td>
<td>3000 €</td>
<td>2500 €</td>
</tr>
<tr>
<td>Handling Fee for Missing IDNs</td>
<td>1000 €</td>
<td>1000 €</td>
</tr>
<tr>
<td>Additional Test/Support</td>
<td>1000 €/day</td>
<td>700 €/day</td>
</tr>
</tbody>
</table>

For more information on how to become a member, please contact Sercos International, Sercos North America, Sercos Japan or Sercos China.

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