

OPC UA Pub/Sub App

OPC UA Pub/Sub for ctrlX CORE
UAP-V-0120

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DC-AE/EPI5 (TaDo/PiaSt)

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1 About this documentation

Editions of this documentation

Edition	Release date	Notes
01	2022-11	OPC UA Pub/Sub App Version UAP-V-0116.2
02	2022-12	OPC UA Pub/Sub App Version UAP-V-0118.1
03	2023-03	OPC UA Pub/Sub App Version UAP-V-0120.1
04	2023-12	OPC UA Pub/Sub App Version UAP-V-0120.2

Further information

- See ➔ [OPC UA Pub/Sub App, Application Manual](#)

2 Important information

2.1 Product information

For the latest information on our products, go to ➔ <https://www.boschrex-roth.com>.

For current security advisories, please refer to ➔ <https://psirt.bosch.com/security-advisories/>

3 UAP-V-0120.2

3.1 Resolved defects and modifications

3.1.1 Bug 737190: OPC UA Pub/Sub: Out of memory

Description

When publishing/subscribing strings, the error message "Out of memory" was displayed.

Bugfix

The memory leak has been fixed.

4 UAP-V-0120.1

4.1 New functions

4.1.1 Feature 551233: New functionalities in the OPC UA Pub/Sub app

Description

The OPC UA Pub/Sub app contains the following new functionalities:

- OPC UA Stack upgrade
- Memory diagnostics in the Data Layer

4.1.2 Feature 557148: OPC UA Pub/Sub: Prioritized communication based on IEEE 802.1Q

Description

The ctrlX OPC UA Pub/Sub app now provides a prioritized communication via VLAN tagging according to the IEEE 802.1Q standard. Prioritized communication can be configured for each publisher and subscriber to which a VLAN ID and a VAN priority can be assigned.. For this purpose, the ctrlX OPC UA Pub/Sub app provides the option to configure VLAN interfaces directly via a dedicated configuration file stored in the active app data.

4.2 Resolved defects and modifications

4.2.1 Bug 425010: OPC UA apps: Status tile was not displayed in the Device Dashboard

Description

In the OPC UA apps, the status tile was not displayed under "Home" in the Device Dashboard of the ctrlX web interface.

4.2.2 Bug 544527: OPC UA apps: Inconsistent display for OPC UA app status

Description

In the OPC UA overview site of the ctrlX web interface, the display of the individual OPC UA apps was inconsistent if different version releases of the individual apps were installed, for example version 1.18 of one OPC UA app and version 1.20 of another OPC UA app.

4.2.3 Bug 583405: OPC UA Pub/Sub: Second reader does not work

Description

If a subscriber is configured with two readers that both refer to the same data, only the first reader gets the data. The second reader is ignored.

Bugfix

This behavior is intended accordingly, but UaExpert indicates this in such a configuration.

4.2.4 Bug 588206: Publisher does not send messages, as data is named similarly

Description

The error occurred with the following exemplary data:

- gvl_maschine
- gvl_maschine_sender

Bugfix

This error does not occur anymore.

4.3 Notes on the use and known restrictions

4.3.1 Bug 638466: OPC UA Pub/Sub App 1.20.1 does not work with UaExpert 1.6.3

Description

The configuration of a Publisher or Subscriber does not work with OPC UA Pub/Sub with version 1.20.1 via UaExpert 1.6.3. Existing apps on the control continues to work, even after updating the app to 1.20.1.

Workaround

The Publisher or Subscriber via UaExpert 1.7.0 can be configured successfully.

5 UAP-V-0118.1

5.1 New functions

5.1.1 Feature 504537: Status display for OPC UA Pub/Sub available in ctrlX CORE web interface

Description

A status display for OPC UA Pub/Sub is now available in the ctrlX CORE web interface.

5.1.2 Feature 508891: New functionalities in the OPC UA Pub/Sub app

Description

The OPC UA Pub/Sub app contains the following new functionalities:

- Extended diagnostic information when starting the app
- OPC UA Stack upgrade
- Exception log in the Data Layer

5.1.3 Feature 513442: Extended diagnostic information available

Description

The following extended diagnostic information is available.

The following extensions are available:

- Displaying changes in configurations
- Cyclic messages are impeded
- Detailed diagnostic information when starting the app

5.2 Resolved defects and modifications

5.2.1 Bug 514942: Translation files for apps were missing

Description

The translation files for American English and German did not exist in the OPC UA apps.

5.2.2 Bug 515475: An identical message was continuously issued when the license was missing

Description

If a license is missing for an OPC UA app, a trace message was continuously issued in the ctrlX logbook.

Bugfix

If a license is missing for an OPC UA app, a trace message is continuously issued in the ctrlX logbook only if the respective trace is enabled.

5.2.3 Bug 539623: Multicast transfer via wrong network interface

Description

In an OPC UA Pub/Sub multicast transfer, the network interface - specified in the OPC UA Pub/Sub configuration - was ignored. Data was sent via an arbitrary network interface. Setting a gateway affects this behavior.

Bugfix

In an OPC UA Pub/Sub multicast transfer, the desired network interface can be specified in the OPC UA Pub/Sub configuration. The field "Network Interface Address" is used for the configuration.

5.2.4 Bug 543397: Publisher/Subscriber did not start automatically after a restart of the ctrlX CORE control**Description**

After restarting the ctrlX CORE control, the Publisher/Subscriber did not start. The respective Data Layer node was missing, as the PLC application has not yet been completely started for example.

5.2.5 Bug 543915: Not all diagnostics were issued upon the OPC UA Server app start**Description**

In the initial phase, no errors or messages were issued to the diagnostic system upon the OPC UA Server app start. Error messages or messages might have been lost.

5.2.6 Bug 549570: Fixing the error diagnostic messages in the Init phase**Description**

If provider data is missing in the Init phase, error diagnostic messages were issued. The LED thus flashes red. When the data was available, the LED continued to flash in red.

5.2.7 Bug 572500: "Manage app data" -> Reset created an OPC UA Pub/Sub error**Description**

When executing the "Reset" function in "Manage app data", an error was generated in the OPC UA Pub/Sub application.

6 UAP-V-0116.2

6.1 Resolved defects and modifications

6.1.1 Bug 512797: Error message: DL_INVALID_ADDRESS after the initial installation

Description

After the initial installation of the OPC UA Pub/Sub App, an error message occurred: DL_INVALID_ADDRESS

6.1.2 Bug 543397: Publisher/Subscriber does not start automatically after a restart of ctrlX CORE

Description

After restarting the control, the publisher/subscriber did not start. The reason for this was the absence of the corresponding Data Layer node, for example in the case that the PLC application had not yet completed starting.

7 Service and support

Our worldwide service network provides an optimized and efficient support. Our experts provide you with advice and assistance. You can contact us **24/7**.

Service Germany

Our technology-oriented Competence Center in Lohr, Germany, is responsible for all your service-related queries for electric drive and controls.

Contact the **Service Hotline** and **Service Helpdesk** under:

Phone: **+49 9352 40 5060**

Fax: **+49 9352 18 4941**

Email: [↗ service.svc@boschrexroth.de](mailto:service.svc@boschrexroth.de)

Internet: [↗ http://www.boschrexroth.com](http://www.boschrexroth.com)

Additional information on service, repair (e.g. delivery addresses) and training can be found on our internet sites.

Service worldwide

Outside Germany, please contact your local service office first. For hotline numbers, refer to the sales office addresses on the internet.

Preparing information

To be able to help you more quickly and efficiently, please have the following information ready:

- Detailed description of malfunction and circumstances
- Type plate specifications of the affected products, in particular type codes and serial numbers
- Your contact data (phone and fax number as well as your e-mail address)

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Bosch Rexroth AG
Bgm.-Dr.-Nebel-Str. 2
97816 Lohr a.Main
Germany
Tel. +49 9352 18 0
Fax +49 9352 18 8400
www.boschrexroth.com/electrics