

PR042019

Software, OPC UA

1 April 2019

Page 1 of 3

Complete analysis of heterogeneous data from TwinCAT controllers and third-party components

TwinCAT Scope meets OPC UA

In the context of Industrie 4.0 and big data applications, machine data acquisition and analytics are becoming increasingly important. The information must be presented in a clear and efficient manner, and the machine control system also has to cover a wide range of other smart components. TwinCAT Scope software provides optimum support for such integrated data acquisition across heterogeneous system environments. A standardised OPC UA communication channel enables this charting tool to analyse data from diverse sources such as TwinCAT controllers and third-party components.

TwinCAT 3 Scope consists of Scope View for the graphical display of signal curves and Scope Server for the actual data logging. The Scope Server can be installed on a target device for autonomous logging (without the View component if desired) or on the corresponding engineering system together with Scope View for remote logging. The latter solution offers the advantage that no additional software has to be installed on the target device. As a result, no updates to TwinCAT controllers are required, and devices without TwinCAT do not have to be modified in order to display their data graphically in Scope View.

Vendor-independent, secure data collection via OPC UA

For logging measured signals, the Scope Server now not only features a TwinCAT-specific ADS channel, but it also offers support for another standardised communication channel, which is realised as an OPC UA

Beckhoff Automation GmbH & Co. KG

Huelshorstweg 20
33415 Verl, Germany
Phone: +49 5246 963-0
Fax: +49 5246 963-198
E-Mail: info@beckhoff.com
www.beckhoff.com

Press contact

Martina Fallmann
Jana Hägerich
Phone: +49 5246 963-140
Fax: +49 5246 963-199
E-Mail: press@beckhoff.com
www.beckhoff.com/press

PR042019

1 April 2019

Software, OPC UA

Page 2 of 3

client. The widespread use of OPC UA in automation technology enables TwinCAT Scope to acquire and display measured data in a vendor-independent way. With OPC UA, this can be achieved reliably and securely, especially if certificates are used.

The TwinCAT Target Browser, which is used for managing the connected data sources in TwinCAT Engineering, has also been expanded with OPC UA support. It enables browsing in the namespaces of connected OPC UA servers. This feature can be used to select the desired variables for logging by the Scope Server with configuration options for certificate-protected access.

A TwinCAT 3 Engineering installation always includes a Scope View and a local Scope Server. Both software components are included free of charge in the basic version, which enables testing of the OPC UA communication. With a rich set of features including multi-core support, triggers, chart synchronisation and numerous zoom functions, the tried and tested charting tool is now perfectly suited for an even larger group of users and even more diverse application scenarios with these latest communication enhancements.

➔ www.beckhoff.com/twincat-3-scope

Beckhoff Automation GmbH & Co. KG

Huelshorstweg 20
33415 Verl, Germany
Phone: +49 5246 963-0
Fax: +49 5246 963-198
E-Mail: info@beckhoff.com
www.beckhoff.com

Press contact

Martina Fallmann
Jana Hägerich
Phone: +49 5246 963-140
Fax: +49 5246 963-199
E-Mail: press@beckhoff.com
www.beckhoff.com/press

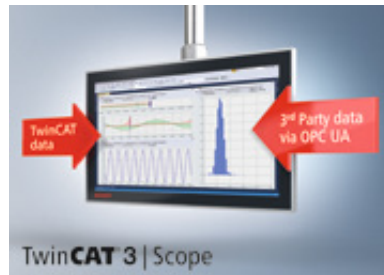
PR042019

Software, OPC UA

1 April 2019

Page 3 of 3

Press picture:



Picture caption:

With an OPC UA communication channel, the high-performance TwinCAT Scope multi-core oscilloscope can be used as a charting tool for diverse data sources such as Beckhoff control technology and third-party components in heterogeneous control systems.

Text and picture:

www.beckhoff.com/press/pr042019

Beckhoff Automation GmbH & Co. KG

Huelshorstweg 20
33415 Verl, Germany
Phone: +49 5246 963-0
Fax: +49 5246 963-198
E-Mail: info@beckhoff.com
www.beckhoff.com

Press contact

Martina Fallmann
Jana Hägerich
Phone: +49 5246 963-140
Fax: +49 5246 963-199
E-Mail: press@beckhoff.com
www.beckhoff.com/press