SCADAvantage™
Version 5.6.1
Product update
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SCADAvantage 5.6.1

SCADAvantage 5.6.1 is now released for sale. SCADAvantage is the Oil and Gas Business Unit Upstream and Midstream SCADA software package to enable safe control and optimized operations for Onshore and Offshore Upstream assets, Gathering networks, Transmission Pipelines, Product Distribution Pipelines and Local Gas Distribution networks.

Products Concerned

SCADAvantage™ HMI 5.6.1
SCADAvantage™ Host 5.6.1
SCADAvantage™ Enterprise 5.6.1

Release Description

SCADAvantage™ 5.6.1 contains the following new features, updates and supported technology.

With this version, we are proud to release SCADAvantage Cloud in the United States and Canada as a Software as a Service. SCADAvantage Cloud provides a cloud based SCADAvantage system within the Microsoft Azure Cloud, the system can be rapidly deployed and modified to meet the needs of upstream producers. The Software as a Service model maintains both the Microsoft Windows operating system and SCADAvantage software at the latest supported security updates and patches to ensure a secure and available SCADA solution.

The core features include; Oil and Gas Protocols, Monitoring, Control, Alarming, Trending, Export to Excel, Standard Reports, Standard HMI and Mobile GUI, and optional applications including; Metering, Well Test, Dynocard, Customized Reports, Call out/in and Customized HMI.

New Functionality

The following is the new functionality added in this release:

1. HMI Packaging and Deployment
   The new Package HMI feature has been added to Visual Studio, SCADAvantage menu. It allows packaging your HMI for deployment using standard Windows installer components. This makes it easier to install, upgrade and repair a client installation as well as it’s a replacement for CAM.

2. HMI Deployment using Windows 10 AppX
   For companies where your SCADAvantage system is managed by IT and your operator desktops have several other vendor’s applications installed, using AppX has advantages. The major advantage is application isolation. When deployed through AppX, the SCADAvantage HMI is running in a sandbox. Windows ensures that any file it installs or registry change it makes has zero impact on any other application installed. It’s like apps for your phone, but for desktops. For service companies, AppX allows your HMI to be deployed into the Windows 10 app store for easy discovery by potential new customers and updating for existing customers.
3. Integrated Metering
   The Host Calculated Meter feature no longer requires SQL-Server and is integrated into the real-time database. Host Calculated Metering no longer supports using SQL-Server. The existing PDH Migration tools have been updated to migrate existing configuration and history.

4. Integrated Dynocards
   The Dynocard feature no longer requires a separate SQL-Server and is integrated into the real-time database. Tools for migrating existing configuration and data are provided.

5. Well Testing
   The Gas and Oil Well Test methods no longer require a separate SQL-Server and are integrated into the real-time database. Tools for migrating existing configuration and data are provided.

Updated Features

The following are the update features in this release:
1. Lines and Shapes
   In previous versions, the Pipe Segment HMI component was more convenient to use for drawing lines than Microsoft's Shape Container based line shape. As a result, the pipe segment is automatically replaced by new a Line Segment control during HMI upgrade. The new line segment optionally supports drawing arrows at one or both ends of the line.

2. HMI Connections
   HMI's clients no longer require ODBC entries to be configured. Server connections are defined during HMI development in the app.config file. This file is included when the application is deployed to a client. Support for ODBC in HMI clients will be removed in the next, major version.

Supported Technology

- Microsoft Windows 10 Enterprise LT SB (Version 1607 and 1703) - 64-bit only
- Microsoft Windows Server 2016 and 2012 R2
- Microsoft Visual Studio 2017 and 2015 with Update 3
- Microsoft SQL Server 2016 and 2014 SP2 Standard Edition - 64-bit only
- Microsoft Office 2016 - 32-bit and 64-bit
- Microsoft Internet Explorer 11
- Microsoft .NET Framework 4.6.2
- ABB Licensing 6.0.0
Version Notes

1. Visual Basic HMIs are not supported in version 5.6. Visual Basic was replaced with Visual Studio .Net. HMI migration must be done before upgrading to version 5.6.

2. Multiple HMI’s sharing login credentials is not supported in version 5.6 due to Cybersecurity hardening.

3. Multiple HMI’s using variables to share information is not support in version 5.6 due to Cybersecurity hardening.

4. The I/O List Export feature has been removed from this version. The I/O List Export add-in is a customer specific solution. It requires a specific set of BOT variables, components and templates which are not shipped with the product. The source code is provided under %svhome%\Media \SampleCode\SVIOLList for those customers who wish to continue using this functionality and/or improve/customize the original implementation.

Reference Documents

- SCADA Vantage 5.6.1 Release Notes – 3CCA003327
- SCADA Vantage 2017 Pricing Catalog
- SCADA Vantage 2017 Pricing Guide

How to Order

Contact Product Management and TechSalesSupport at SCADA Vantage.info@abb.com or your local ABB representative for ordering and technical sales support