Citect™ SCADA 2016

Engineering. Reimagined.

As our reliable, flexible and high performance Supervisory Control and Data Acquisition (SCADA) software solution for industrial process customers, *Citect SCADA 2016* is focused on putting engineers and operators back in the driver's seat by helping to unlock the power and value of their SCADA systems.

Intuitive configuration tools and powerful features help customers to develop and deploy solutions for a variety of applications, with robust visualisation and operational capabilities delivering a new era of simplicity and efficiency.

Citect
SCADA

Life Is On | **Schneider** Electric
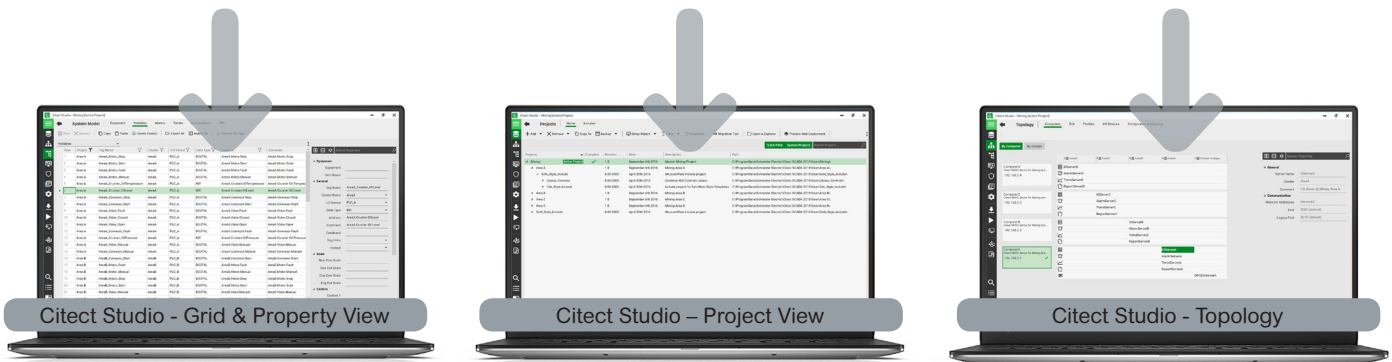
Engineering. Reimagined.

Shaped on addressing key social and technological trends including evolving workforce demography, globalisation and the convergence of information and operational technologies; *Citect SCADA 2016* delivers a host of intuitive functionality enhancements and innovations that streamline and reimagine the engineering experience.

Some highlights of *Citect SCADA 2016* **include:**

New Integrated Development Environment - *Citect Studio*: our new unified configuration environment replacing Citect Explorer & Project Editor; with powerful & easy-to-use grid functionality offering a faster more intuitive activity-based user experience; driving engineering efficiency and simplicity.

Enhanced Deployment Management - our new centralised deployment view facilitating the management of project configuration for all *Citect SCADA* nodes from one central location (with central store, version management, local and remote roll-back and delta-only transfer); saving valuable time and effort.

Simplified Topology Management - streamlined and consolidated server configuration, with a central view of your *Citect SCADA* servers, by machine & by cluster; giving greater clarity into your SCADA assets with a single view of your topology.

Citect Studio - Grid & Property View

Citect Studio – Project View

Citect Studio - Topology

Additional Functionality:

> Calculated Variables - configuration of tags using Cicode functions as expressions
> Alarm Properties for Equipment - creation of genies & super-genies with Equipment.Item support for Alarm properties
> Speciality Drivers – BACnet & KNX* enhancements, new S7TCP driver supporting the latest Siemens® S7 - 1500 PLCs

*For download availability please check DriverWeb at https://www.citect.schneider-electric.com.

SCHNEIDER ELECTRIC SOFTWARE CITECT SCADA CUSTOMER STATISTIC

Citect Studio's intuitive navigation receives resounding applause

98% of surveyed customers found Citect Studio easy to navigate. They quickly got familiar with the new integrated development environment.

98%

Source: TechValidate survey of 62 users of Schneider Electric Software Citect SCADA

✓ Validated   Published: Aug. 8, 2016 TVID: DD6-ED2-47C

SCHNEIDER ELECTRIC SOFTWARE CITECT SCADA CUSTOMER STATISTIC

Over 50% faster deployment

63% of surveyed customers could roll out project changes to all the machines in their systems **50% to 90% faster**, using the new deployment feature.

Source: TechValidate survey of 41 users of Schneider Electric Software Citect SCADA

✓ Validated   Published: Aug. 5, 2016 TVID: 7A4-0EA-0E1

Some feedback from our *Citect SCADA 2016* Beta Program
Source: TechValidate Customer Survey 2016

Anywhere. Anytime. Any device.

Citect Anywhere is a mobile extension of *Citect SCADA 2016* that provides unprecedented real-time access to Citect applications via HTML5-compliant web browsers.

Citect Anywhere enables visualisation, collaboration and execution at various levels of the organisation with zero client installation and maintenance, enabling users to securely troubleshoot plant equipment from any location, on any device, at any time.

Citect Anywhere

"With 41% market share, Schneider Electric is the leading supplier in the worldwide HMI software and services market, which reached just over $1.451 billion in 2014".

Source: ARC "Human Machine Interface Software and Services Global Market Research Study – Market Analysis and Forecast through 2019"

Connectivity. Interoperability.

Citect SCADA 2016 boasts tight device and application integration with both Schneider Electric and third-party hardware and software offerings, helping to extend the value of our customers' SCADA systems.

Wonderware **SmartGlance**

Wonderware **Alarm Adviser**

Wonderware **System Platform**

Wonderware **Historian**

Citect **SCADA**

With a suite of offers and combined capabilities that are unmatched in the industry, our seamless connectivity to the *Wonderware®* Software portfolio including *Wonderware Historian*, *Wonderware SmartGlance, Wonderware Alarm Adviser* and W*onderware System Platform*, drive further operational value for customers with a more holistic view of data.

Installation. Recommendations.

Citect SCADA 2016 is supported on the following platforms:

> Windows® 7 SP1
> Windows 10
> Windows Server 2008 R2 SP1

> Windows 8.1
> Windows Server 2012 R2
> Windows Server 2016

Notes: Internet Explorer® Version 10 or later is the minimum requirement when using the Process Analyst, the *Citect SCADA* Web Client or the *Citect SCADA* Web Server. However in line with Microsoft® advice, we recommend you use the latest version of Internet Explorer with these products. Please note extended memory mode in the alarm server can only be run on a 64-bit operating system.

Citect SCADA 2016 Hardware Recommendations:

Selecting hardware is dependent upon a number of factors such as:

> The role of the hardware in your SCADA system
> The degree of customisation
> The complexity of your user interface
> The number of Clients (for Servers)
> The amount of I/O, Alarms, Trends and the frequency of change

Minimum Hardware Recommendations:

The minimum hardware recommendations below have been tested using a simulated SCADA system with 10 clients* connected, maintaining a server CPU load of less than 25%. These recommendations should be used as a guideline only and please note that your SCADA system may require less or more powerful hardware.

Role	CPU (PassMark®)	Cores	RAM	HDD	GFX	Screen Resolution	Network
Client	2000	1	2 GB	10 GB	DirectX 9 or later with WDDM 1.0 Driver, 64 Mb of dedicated VRAM	800 x 600	100 Mb
Server	2000	2	4 GB	10 GB	DirectX 9 or later with WDDM 1.0 Driver, 64 Mb of dedicated VRAM	800 x 600	100 Mb
Engineering Workstation	2000	2	8 GB	10 GB	DirectX 9 or later with WDDM 1.0 Driver, 128 Mb of dedicated VRAM	1920 x 1080	100 Mb
HMI	1400	2	8 GB	10 GB	DirectX 9 or later with WDDM 1.0 Driver, 64 Mb of dedicated VRAM	800 x 600	N/A

*Notes:
1. The exception to the 10 client simulation is the HMI role, with a Server/Client combination operating without networking.
2. Please refer to the detailed Hardware Recommendations in the Installation Guide to better gauge hardware recommendations, specific to your size SCADA system.

PC Performance

General PC performance will be affected by the major elements of CPU, RAM, Bus and HDD speed. As the clock speed no longer indicates how powerful a CPU is, the required processor is defined according to an average CPU mark given by PassMark® Software. To check a CPU's performance for example for a Core i3 CPU, type "PassMark Core i3" in the search engine of your internet browser to compare its calculated performance vs other well-known processors. You can then compare the result against the recommendations above. In general it is recommended that all computers in your SCADA network utilise no more than 25% CPU in normal state, thereby allowing the system to be responsive and better equipped to deal with abnormal situations.
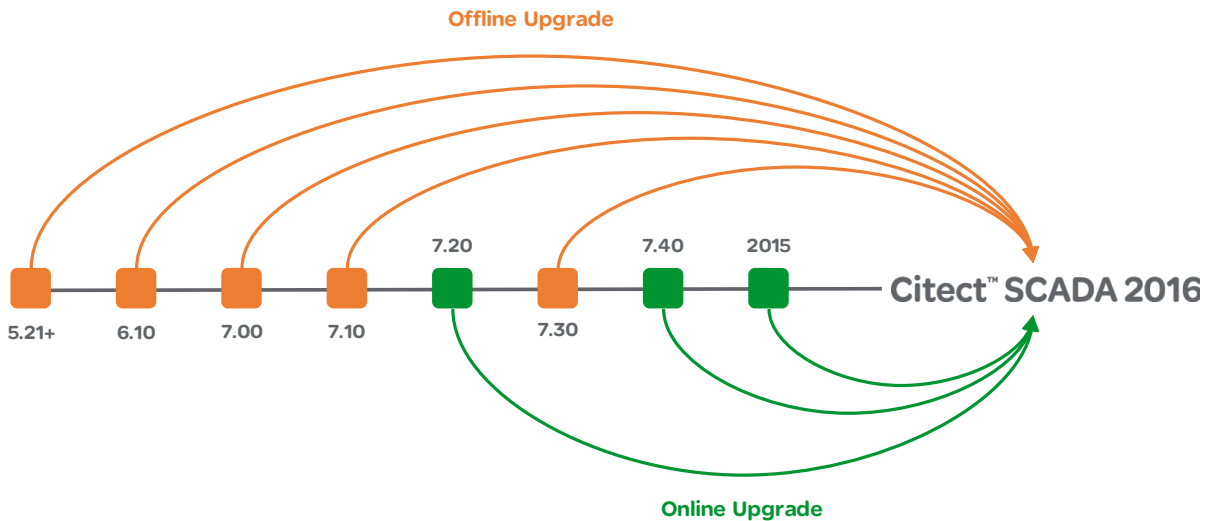
Visit **https://www.citect.schneider-electric.com** for more information on Installation, Configuration and PC Performance plus the latest patches and updates available for this software.

Upgrade. Path.

Citect SCADA 2016 delivers on the promise of an intuitive and efficient SCADA upgrade with seamless and streamlined design, maintenance and deployment; in addition to unique connectivity and integration capabilities.

The latest release of *Citect SCADA 2016* provides specific support for:
> Direct offline upgrade* from version 5.21 onwards
> Online upgrade from version 7.20 onwards

Offline Upgrade

5.21+ 6.10 7.00 7.10 7.20 7.30 7.40 2015 Citect™ SCADA 2016

Online Upgrade

Additionally *Citect SCADA 2016* is compatible with Windows Server 2016 and Windows 10^, as well as Windows Server 2012 R2 and Windows 10 for many popular I/O drivers.

* Excludes alarm history from v6.10 and below
^ Includes Windows 10 Anniversary Update

Maximise. Investment.

Maximise your SCADA investment with Customer FIRST Support our new fee-based software maintenance and technical support portfolio of services, designed to help you maximise your success and investment in Schneider Electric software products. Customers can choose their most appropriate Support level, based on business requirements, project and commissioning milestones, complexity and criticality of operations and the domain expertise of staff. Ensure peace of mind with Customer FIRST Support, your *Citect SCADA* insurance policy. Find out more at **https://www.citect.schneider-electric.com**

For more information on how Citect SCADA 2016 can reimagine the engineering experience, please visit: **www.citect.schneider-electric.com/unlock-the-value**, **www.software.schneider-electric.com** or contact your local Schneider Electric representative.

Due to possible changes in standards and equipment, the features described in this document in the form of text and images are subject to confirmation by Schneider Electric.