

CitectSCADA V7.0

What's New

CitectSCADA delivers the most reliable, flexible and high performance control and monitoring system, that enables you to increase ROA by reducing your operating costs and maximizing productivity.

V7.0 allows you to make significant cost savings and to improve operational efficiencies, by optimizing system utilization across your plant. Reflecting the latest technology, V7.0 introduces **advanced clustering** and **online changes**, operating on new client-server architecture.

ADVANCED CLUSTERING

CitectSCADA V7.0 delivers a flexible approach to clustering your systems, whether your objective is centralization of operations; site expansion or replication of projects.

Offering best-in-class reliability, V7.0's clustering enables organizations to reduce the number of control rooms and/or servers at each site. Alternatively, if you wish to expand your system or create specific subsystems, V7.0 allows you

to extend your system functionality without incurring the high costs of upgrading or replacing redundant servers.

Finally, clustering helps streamline project management through improved consistency, data integrity and standardization across projects. The centralization of clustering enables a change made in one place to be replicated across the system, eliminating the need for changes to be made to each individual system.

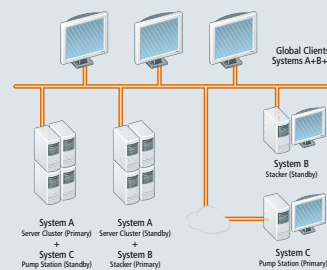
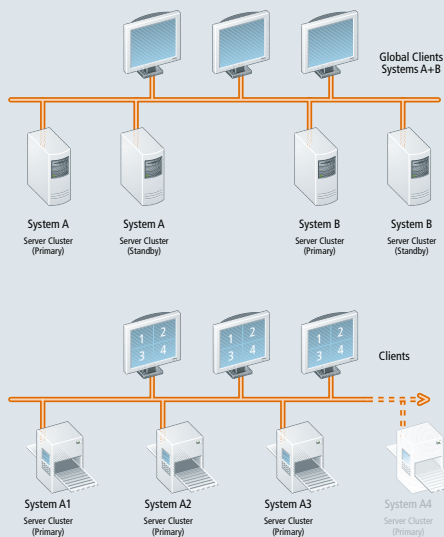
GLOBAL VIEW CLUSTERING

Global view clustering enables you to view pages, alarm, trends etc, from across specified clusters, or the entire system. This allows operators to take prioritized action on incidents or exceptions across the plant or enterprise. Clusters can be added or removed during project configuration, or dynamically at runtime. This enables plant operations to become more responsive to the different manning requirements. Global view clustering would typically be used at a large

LEFT: Combined system clusters for global view of centralized control and monitoring.

BOTTOM LEFT: Clustering for replicative production significantly reduces production time and cost for manufacturers and OEMs.

BOTTOM RIGHT: Split system clustering for control of sub-systems or when expanding your system.



WHAT'S NEW IN V7.0?

- Online Changes
- Advanced Clustering:
 - Global View clustering
 - Split System clustering
 - Replicative clustering
- Client-server architecture
- Redundant networks supporting TCPIP and NETBios
- New Cicode functions, eg 'execute Cicode whenever tag changes'

BENEFITS AT A GLANCE

- Make significant production cost savings
- Increase ROA by optimizing system and staff utilization
- Lower TCO by reducing the time it takes to deploy changes
- 'Change-validate-deploy' best practice offline changes
- Streamline project management

INVESTING FOR YOUR FUTURE

Invest in the future of your CitectSCADA system by accessing the latest releases and expertise.

Sign up for Citect Gold Support today and upgrade to V7.0!

TechnicalSheet



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CitectSCADA

Reliable, Flexible, Performance

“Clustering is ideally suited to our type of operation since the site is really four or five independent zones. If we did have a network issue through fibre or server loss, with the current configuration we would not be able to get trend or alarm reports. Clustering can remedy that. We will be going from a 10-server network down to around 5 servers. This halving of server cost is another significant benefit”.

Process Control Engineer of a large Australian mining operation that intends adopting CitectSCADA's clustering.

plant with a number of remote sites and a single, central control room. During day-time operations, the remote sites can be manned using local operator interfaces. After hours, the entire system can be monitored and controlled from the central location, thereby maximizing operational efficiencies.

SPLIT SYSTEM CLUSTERING

Clustering can also be used to split a system to create reliable sub-clusters, maintained through a centralized set of servers. This approach is useful when you need to expand your site, increase overall system capacity, or when you want to have reliable, localized control for specific sites.

Where CitectSCADA V7.0 excels is in providing the ability to pair 'n' number of clustered servers with one central server. By positioning servers close to the process (distributed), and pairing them with the central server, not only do you have increased reliability, but you can dramatically reduce hardware costs.

Split system clustering also enables you to manage load share. For example, you can add an additional sub-cluster to your alarming system to take advantage of remaining process capacity when your current limits (64,000) have been reached. Alternatively, you can add a second pair of trends servers to enable increased trending, without altering the interface of your plant operations.

REPLICATIVE CLUSTERING

Replicative clustering is the fast and simple way for organizations to use the same configuration for a project multiple times, and have that configuration automatically replicate for each cluster. Once one project has been tested, it can be replicated and rolled out over any number

of systems without having to test each system individually. Operators can now select and view multiple projects, driven by different clusters at different times on one, on-screen display page.

CLIENT-SIDE ONLINE CHANGES

Client-side online changes ensure that operators can continue monitoring the plant whilst changes to the system are being deployed. V7.0's new online changes have been designed to minimize interruption whilst maintaining reliability and decreasing risk. Graphics, tags, alarms, trends and reports now update automatically when changes are made without the need for clients to be restarted. Changes can be made to any of the clustered servers. Once the server process(es) required by the change is restarted, the changes are instantaneously available to all clients across the network.

MINIMAL DISRUPTION

When changes are made which are not able to be processed by the clients without a restart, (eg changing code in a file), operators are given the option to 'update now or later', enabling them to continue with their current tasks.

CHANGE-VALIDATE-DEPLOY OFFSITE CHANGES

You or your Integrator can now make changes offsite using your existing engineering tools by employing the 'Include Projects' in V7.0. Following engineering best practices, unlike with other SCADA systems, changes in CitectSCADA can be completed, validated and deployed at a single instance in time. This can then be deployed online at the site, without having to restart the client. This significantly reduces time and disruption, and removes the risk of operators trying to operate the plant using half-completed changes.

Learn more about how CitectSCADA can benefit your business at www.citect.com

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