SOFTWARE HOUSE

A Tyco International Company

C•CURE 9000 Enterprise

Taking C•CURE 9000 further with advanced distributed architecture

Features That Make a Difference:

- Advanced distributed architecture for enterprise scalability

- Maintain independent control at each remote location

- Optimize local performance by limiting WAN traffic and latency

- Synchronize full database across all servers

- Manage entire enterprise across multiple geographical areas from one central location

- Monitor alarms from multiple sites on one workstation

- Global reporting for efficient, consolidated data tracking

- Global journal and audit reporting

- Global configuration reporting

- Full operation at local satellite

C•CURE 9000 Enterprise provides advanced distributed architecture for enterprise scalability. Whether your organization consists of a few facilities that are locally dispersed or many that span the globe, this solution grows as your company grows.

C•CURE 9000 Enterprise gives corporate security personnel and IT managers central control over the entire system, while each local facility maintains independent control of its individual operation. It also allows system administrators at the main facility to configure and monitor all locations from that central site.

Each local server may be positioned near its relevant field hardware which limits traffic to the main server and optimizes performance. Each facility maintains a local SQL database which increases system reliability as there is no dependence on the master database or WAN connection for normal operations.

Data from each local server is synchronized with the main server via the WAN to ensure data consistency throughout your entire organization. All database information, including cardholder and access control information, is sent to the central server. In addition, when updates are made to the main server those updates are distributed to the local servers to ensure local data is current.

C•CURE 9000 Enterprise allows system operators to simultaneously monitor alarms from multiple facilities from one workstation. You can manage your entire enterprise from a single client providing one source of critical information. Additionally, you can compile global journal and audit reports at the main facility for efficient, consolidated tracking of personnel or event information. These reports can be used for internal investigations or to comply with company mandates.

Features

Advanced Distributed Architecture for Enterprise Scalability

The C•CURE 9000 Enterprise architecture supports a master application server (MAS), and up to 20 satellite application servers (SAS) without limiting system functionality. All communication is performed across a WAN, which allows real time two-way communication between the MAS and each SAS.

Independent Control at Remote Locations

Each SAS communicates directly with the MAS but is not dependent on the MAS for access control in the area in which the local hardware resides. Each satellite system administrator has total control over all access control field hardware and system information related to his/her respective location. This gives regional system administrators autonomous control over their individual regions independent of the MAS and corporate WAN. Each location retains its own database and has full local reliability. This prevents unnecessary system downtime should the SAS lose communication with the MAS.

Optimize Local Performance

By connecting a SAS to a Local Area Network (LAN) along with relevant access control hardware, local performance may be optimized in the event of latency from the WAN. The SAS may communicate directly with the hardware that is part of that particular LAN. There is no reliance on the MAS or any other SAS for functionality. Placement of the SAS within a LAN can decrease the time it takes to transmit data to the relevant hardware since there is no dependence on the WAN for operation. Much less bandwidth may be required, thereby increasing efficiency. Local performance is further optimized since the MAS performs substantial reporting for all SASs. This allows each SAS to allocate additional resources to perform important access control functions.

Synchronize Full Database Across All Servers

All access control information, not just cardholder data, from each SAS is synchronized with the MAS. The MAS then distributes any changes received from each SAS, so that all servers are equipped and operating with up-to-date information. This is all done in real time. Consistent synchronization of each local database to the master database ensures data consistency. This provides information that is necessary to make certain the organization is secure and its employees are well protected. Synchronization of a full database also gives security personnel the ability to compile global personnel and configuration reports quickly and efficiently.

Manage Entire Enterprise from One Central Location

Since all cardholder and access control field data collected from each SAS is synchronized and communicated to the MAS, you can manage and perform central monitoring operations. Viewing all data across all SASs gives you a full view of your entire operation.

Monitor Alarms from Multiple Sites on One Workstation

The power of C•CURE 9000 Enterprise allows you to simultaneously monitor alarms in multiple locations from one convenient workstation. Central monitoring of alarms from multiple sites means more flexibility. Operators might share the responsibility of monitoring various sites during different time periods.


Global Reporting for Efficient Consolidated Data Tracking

With C•CURE 9000 Enterprise's global reporting functionality, you can retrieve personnel, configuration, hardware, journal, and audit data from all facilities within the organization. This data can be used for a variety of reasons such as investigating unauthorized entries, analyzing hardware positioning across the organization, and complying with specific company mandates. You can save valuable time searching for data and compiling critical reports since all global information is replicated on the MAS where you can quickly run reports on pertinent information.

Features

C•CURE 9000 Enterprise Architecture Diagram
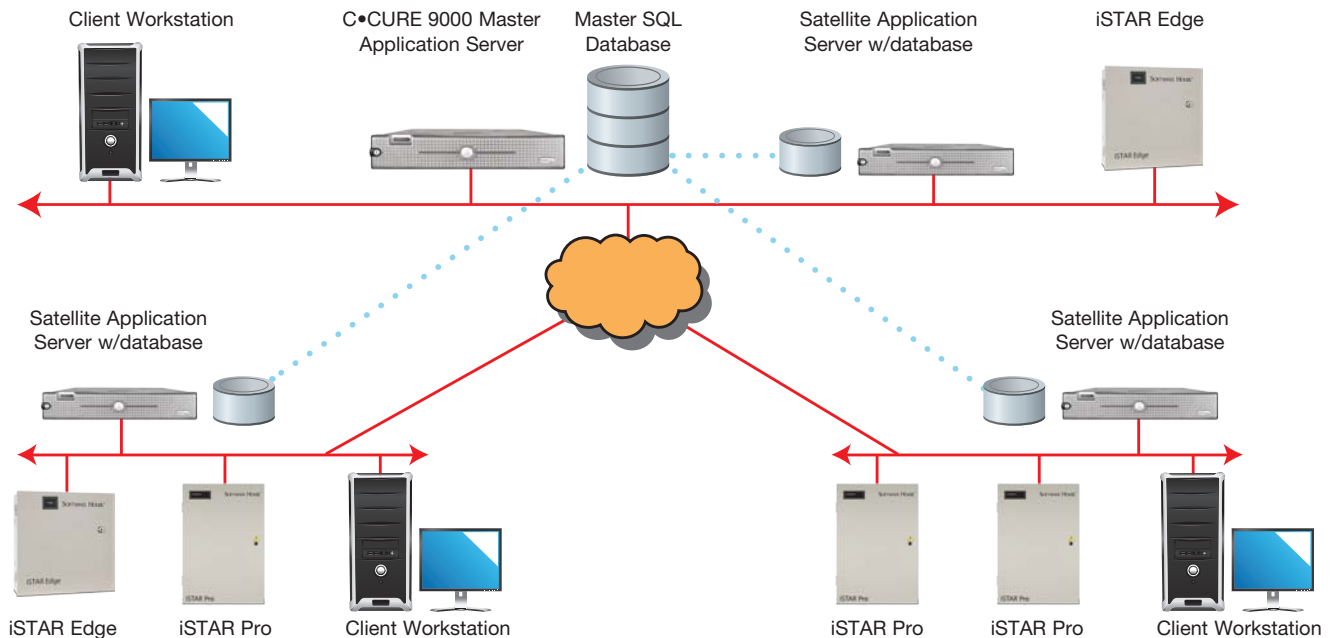
C•CURE 9000 Enterprise System Capacities

Master Application Server Values (Default/Maximum)[1]					
	M1	M2	M3	M4	M5
# of Global Personnel Records[2]	1,000	10,000	25,000	100,000	250,000
# of Simultaneous Clients[3]	5/100	5/100	5/100	10/100	10/100
# of Badging Clients	1/100	1/100	1/100	2/100	2/100

C•CURE 9000 Satellite Application Server System Series Values (Default/Maximum)[4]								
	SERIES L[5]	SERIES M[5]	SERIES N[5]	SERIES P	SERIES Q	SERIES R	SERIES R PLUS	SERIES S
# of Online Readers	16	32	64	128	256	512	1,000	2,500
# of Online Inputs	1,000	1,000	1,000	5,000/10,000	5,000/10,000	5,000/10,000	7,500/10,000	10,000
# of Online Outputs	1,000	1,000	1,000	5,000/10,000	5,000/10,000	5,000/10,000	7,500/10,000	10,000
# of Local Personnel Records	7,000	12,000	40,000	45,000	250,000	250,000	250,000	500,000
# of Simultaneous Clients[3]	10/30	10/30	10/30	20/256	30/256	40/256	80/256	100/256
# of Badging Clients	1/30	1/30	1/30	2/256	2/256	3/256	5/256	10/256

(1) Additional clients and badging clients may be added to a system license. Simultaneous client connections are tabulated by C•CURE 9000 Administration, Alarm Monitoring, and Web Client connections. C•CURE 9000 is designed for unlimited expansion. The 100 is a design capability while the tested limit is 10. System performance will vary depending upon specific hardware configuration including number of communication lines/ports, download/upload frequency, etc.
(2) Global personnel records are the maximum supported as an aggregate across the total number of SAS servers.
(3) Client License – Single monitoring station application, administration application or web client application.
(4) Additional clients and badging clients may be added to a system license. Simultaneous client connections are tabulated by C•CURE 9000 Administration, Alarm Monitoring, and Web Client connections. C•CURE 9000 is designed for unlimited expansion. The 256 is a design capability while the tested limit is 100. System performance will vary depending upon specific hardware configuration including number of communication lines/ports, download/upload frequency, etc.
(5) The baseline capabilities of the system are within the envelope of operation for utilization of SQL Express.
Additional inputs/outputs and client licenses may be purchased (see C•CURE 9000 Systems Options)

Note: (SQL and SQL Express): A SQL Express license is shipped with every system. Series P through S requires a full SQL Server 2008 Standard Edition license which may be purchased separately.

C•CURE 9000 Master Application Server
Recommended Hardware and Software

Processor	Intel® Quad-Core Xeon (2.8 GHz or greater); Xeon 5660 Series or greater
Hard Disk Drives	Dual drives: primary drive = 300 GB (9000 Runtime); secondary drive = 300 GB (data backups)
Drive Speed.	15K RPM or greater
Memory.	8 GB
Network Adapter Card	Intel Gigabit ET Quad Port Adaptor, Gigabit Ethernet NIC, PCle x4
DVD Drive	Required
Operating System	Windows® Server 2008 R2 Standard and Enterprise (64-bit only)
Web Server	IIS v6.0 or higher for C•CURE 9000 Web Client, if required
Database (English Only).	SQL Server 2008 R2 Standard and Enterprise (64-bit only)
Video Card	Matrox G200eW w/ 8MB memory

C•CURE 9000 Satellite Application Server
Recommended Hardware and Software

Processor

Series L-N.	Intel Xeon E3-1240 processor or greater (3.30 GHz or greater)
Series P-S	Intel® Quad-Core Xeon (2.8 GHz or greater); Xeon 5660 Series or greater

Hard Disk Drives

Series L-N.	Dual drives: primary drive =300 GB (9000 Runtime); secondary drive = 300 GB (data backups)
Series P-S	Dual drives: primary drive = 300 GB (9000 Runtime); secondary drive = 300 GB (data backups)
Drive Speed	15K RPM or greater

Memory

Series L-N.	8 GB
Series P-S	8 GB
Network Adapter Card	Intel Gigabit ET Quad Port Adaptor, Gigabit Ethernet NIC, PCle x4
DVD Drive	Required
Video Card	Matrox G200eW w/ 8MB memory
Operating System	Windows 7 Professional (32- and 64-bit) Windows Server 2008 R2 Standard and Enterprise (64-bit) Windows Server 2008 Standard and Enterprise (32-bit) Windows Server 2003 Standard and Enterprise SP2 (32-bit) Windows XP Professional SP3 (32-bit)
Web Server	IIS v6.0 or higher
Database (English Only) . . .	SQL Server 2008 R2 Express, Standard, and Enterprise (32- and 64-bit); SQL Server 2005 SP3 Express, Standard, and Enterprise (32-bit)

C•CURE 9000 Client Workstation
Recommended Hardware and Software

Processor	Intel 2nd Generation Core i5-2400 or greater (3.1 GHz or greater)
Hard Disk Drive	Dual drives: primary drive = 250 GB; secondary drive = 250 GB
Drive Speed.	7,200 RPM or greater
Memory.	4 GB
Network Adapter Card	Integrated Intel Ethernet LAN 10/100/1000
DVD Drive	Required
Video Card	Integrated Intel HD Graphics 2000
Operating System	Windows 7 Professional and Enterprise (32- and 64-bit) Windows Vista Business and Enterprise (32-bit) Windows 2003 Standard (32-bit) Windows 2003 Enterprise SP2 (32-bit) Windows XP Professional SP3 (32-bit)
Maximum Concurrent Satellite Application Servers per Master Application Server	20
Authentication	Windows Authentication on Domain and Trusted Domain

Supported Languages[6]

English, Arabic, Brazilian Portuguese, Dutch, French, German, Italian, Polish, Simplified Chinese, Spanish, Greek, Japanese

(6) Languages supported with English OS with language pack, not native OS.

Related Products

C•CURE 9000

iSTAR Controllers

C•CURE 9000 SiteServer

C•CURE 9000 Web Client

Approvals