tyco | CEM Systems

AC2000 Server Software & Hardware

Key Features

- A single AC2000 server can support up to 65,536 master card readers or doors
- Resilient and reliable 64-bit Linux-based operating system
- Multiple layers of redundancy
- Automated system backups
- Configurable data management and archiving
- Web based graphical user interface that ensures no previous Linux knowledge is required
- Supports full suite of Windows based client applications
- Fully audited system, all database changes and updates recorded and searchable
- UTF-8 database supporting multiple languages and character sets
- Hot standby failover server optional
- Supports World Time zone configuration
- Data Partitioning and Standard System
- Link supported

The central component of the AC2000 client-server system architecture is the Central Database Computer (CDC) server.The CDC serves each connected Windows-based client workstation, RTC (Real Time Computer) and AC2000 WEB. The CDC server processes and stores all alarms and transactions which occur on the AC2000 system.

The CDC server runs on CEM's own customised Linux-based operating system (OS) which is tailored for reliable Security Management application. The CDC server provides a highly sophisticated level of power and system resilience. Linux is widely known for its reliability, robustness, resilience and system uptime.

The CDC server has built-in web server (AC2000 WEB) allowing system administrators to perform server management, configuration, diagnostics and system backup operations without needing any prior Linux knowledge or extra resources.

An automated system backup process runs each day ensuring system data can be restored in the event of critical hardware failure. Multiple backup media choices are available including removable drives and network drives. USB backups are available and are fully configurable within the AC2000 system.

Scalability

The capacity of an AC2000 system can be increased by adding additional RTC's to the AC2000 CDC Server. Each CDC supports up to 256 RTC's and each RTC supports up to 256 doors. At full capacity an AC2000 system can support up to 65,536 doors using only a single CDC server. This provides a scalable architecture for the system to be extended as required.

System Resilience

The CDC has an optional Failover server solution which can be used to create a duplicate CDC hot standby server, which can take control of the system in the event of primary server failure.

World Timezones

The CDC server can support numerous RTC's across multiple world timezones. Each RTC maintains its own localised clock, according to their geographical location. All associated devices synchronise their internal clocks to the local RTC.

The centralised CDC will store all alarms and transactions, which can be accessed via the networked AC2000 workstations. All alarms and transactions will be displayed as per the local AC2000 workstations geographical timezone.

This allows global companies operating in Coordinated Universal Time (UTC) to have full real time visibility of alarms as they occur.

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AC2000 System Topology
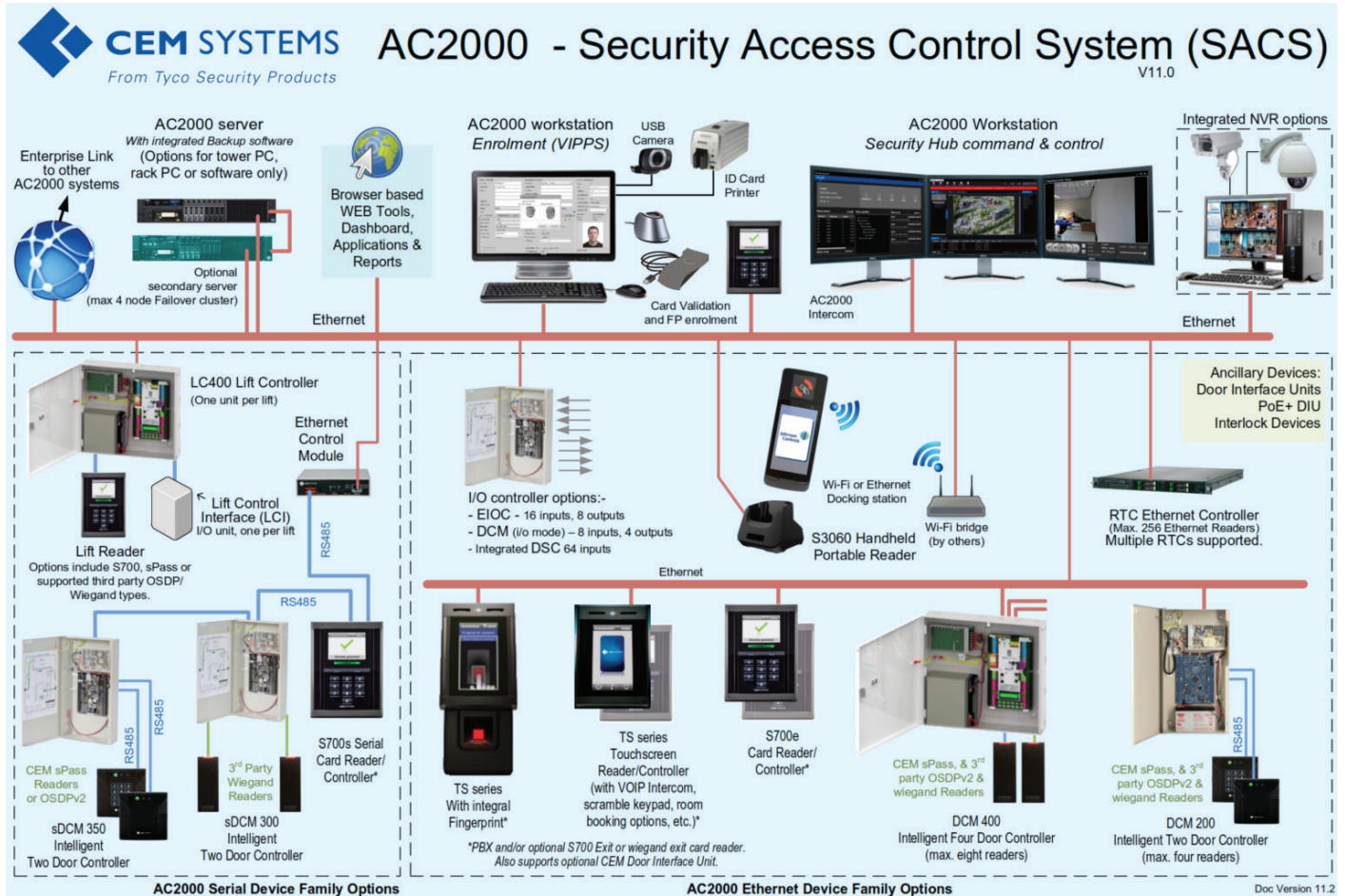
AC2000 Software Starter Bundles

Model	Description
SWAC2KBUN32	AC2000 Server Software-only Licence for 32 doors, Includes 1 Client Workstation Licence (SWA2WS-P) with ID Badge Design (VIPPS) functionality
SWAC2KBUN64	AC2000 Server Software-only Licence for 64 doors, Includes 1 Client Workstation Licence (SWA2WS-P) with ID Badge Design (VIPPS) functionality
SYS/610/032	AC2000 Server Hardware Bundle for 32 doors. Includes AC2000 software licences for 32 doors SWAC2000SE-32L and SWENET32 preinstalled on a DELL Tower server. Includes 1 Client Workstation Licence (SWA2WS-P) with ID Badge Design (VIPPS) functionality
SYS/610/064	AC2000 Server Hardware Bundle for 64 doors. Includes AC2000 software licences for 64 doors SWAC2000SE-64L and SWENET64 preinstalled on a DELL Tower server. Includes 1 Client Workstation Licence (SWA2WS-P) with ID Badge Design (VIPPS) functionality

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AC2000 Server Software

Model	Description
SWAC2KBUN128	AC2000 Server Software-only Licence for 128 doors, Includes 1 Client Workstation Licence (SWA2WS-P) with ID Badge Design (VIPPS) functionality
SWAC2KBUN256	AC2000 Server Software-only Licence for 256 doors, Includes 1 Client Workstation Licence (SWA2WS-P) with ID Badge Design (VIPPS) functionality
SWAC2KBUN32-64	AC2000 Server Software-only Licence Upgrade 32 to 64 doors
SWAC2KBUN64-128	AC2000 Server Software-only Licence Upgrade 64 to 128 doors
SWAC2KBUN128-256	AC2000 Server Software Upgrade Licence from 128 to 256 doors

AC2000 Server PC Hardware

Model	Description
SYS/700/250	DELL PowerEdge R250 1U Rack-Mount Server RAID-1
SYS/700/450	DELL PowerEdge R450 1U Rack-Mount Server RAID-5
SYS/705/450	DELL PowerEdge R450 1U Rack-Mount Server RAID-5 with Self-Encrypting Drives (SED)

Related Products

· AC2000
· AC2000 Airport
· AC2000 Lite

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.cemsys.com or follow CEM Systems on LinkedIn and Twitter.

CEM/B/354 Rev E

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