

AC2000 (RTC) Ethernet Controller

OVERVIEW

The AC2000 RTC (Real Time Computer) is a software controller required for use with Ethernet based CEM readers and devices as part of the AC2000 SE (Standard Edition) and AC2000 AE (Airport Edition) access control systems.

At the heart of the AC2000 system is the Central Database Computer (CDC Server), which is based on a client-server system architecture design. The CDC server serves each of the connected client workstations and processes and stores all the alarms and transactions that occur on the system.

The RTC software provides Ethernet reader controller software which is used by CEM readers and devices to communicate with the CDC. It has its own subset of the CDC server database which it uses to communicate to the readers. The RTC is used with CEM Ethernet devices such as the S610e reader, S610f reader, Etherprox reader, S3020 portable reader range, eDCM 300 (Door Control Module), eDCM 300 Input/Output Module and the EIOC (Ethernet Input/Output Controller).

The RTC software can be installed on the CDC server, however when used in systems with over 256 master readers/devices, the RTC software is installed on separate PC hardware to handle system capacity.

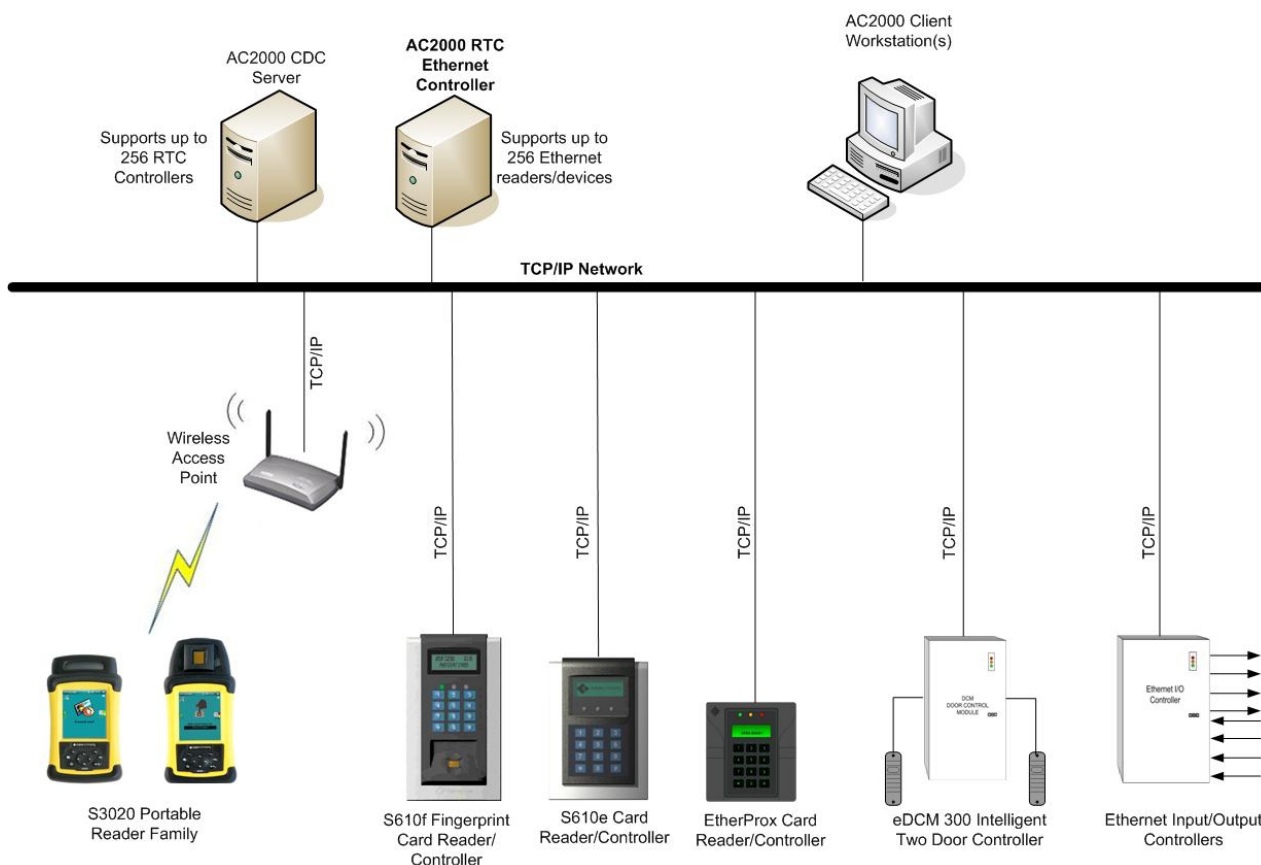
CEM Ethernet readers and devices have their own IP address and communicate to the RTC via standard TCP/IP protocol over 10/100 Base-T.

FEATURES

- RTC software is required to support CEM IP based products including the S610e, S610f, Etherprox, S3020 portable reader range, eDCM 300 two-door Controller, eDCM 300 Input/Output Module and the EIOC (Ethernet Input/Output Controller)
- A single RTC controls up to 256 master card readers/devices
- A single CDC server can use 256 RTC's to support up to 65,536 master card readers/doors
- RTC has a complete offline database offering an extra layer of redundancy to the AC2000 system
- RTC distributes database changes to connected Ethernet readers and devices
- Ethernet (TCP/IP) connectivity to the AC2000 CDC server

PRODUCT HIGHLIGHTS

AC2000 Ethernet System Topology



SYSTEM RESILIENCE

The RTC Ethernet software offers an added layer of system resilience as it is capable of operating independently from the central CDC server should communications between the two be temporarily lost.

All transaction information will be held on file in the RTC for onward transmission up to the CDC server once communications are re-established. Any system updates that

have taken place at the CDC server during offline operation will also be transmitted to the RTC.

A large AC2000 system will utilise multiple RTC's, each connecting back to a single CDC Server. This provides a robust and reliable system, with balanced loading of access control processing and data communications.

Recommended RTC PC Specification

Processor Type	Intel® Xeon® 3040 Dual Core Processor
Processor Speed	1.86GHz
Internal cache	2MB L2 cache
Standard Memory	1 GB (2 x 512 MB)
Internal Hard Drive	1 x 80GB, 7200rpm, 3.5inch, SATA Hard Drive
Optical Drive Type	48 x DVD ROM
Other Drives	None
Chassis Type	Tower
PSU	Single

RTC Options

Product Code	Description
SWENET128	RTC – Ethernet Reader Controller Software Only (1 - 128 doors)
SWENET256	RTC – Ethernet Reader Controller Software Only (128 - 256 doors)
SWENETUPG 128-256	RTC – Ethernet Reader Upgrade License Controller Upgrade License (128-256 doors)
SYS/002/005	RTC - Ethernet Reader Controller Workstation (PC with SWENET256 software installed)

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