tyco | CEM Systems

Data Sheet

AC2000 Application Programming Interface (API)

Key Features

- Allows 3rd Party developers to create seamless interfaces to the AC2000 & AC2000 Airport (Rest of World)
- Real-time event processing and remote command and control
- Leverage the power of AC2000 within a custom interface
- Create, Delete, and Edit Personnel Vehicle and Visitor data from external systems
- Issue door commands from a remote 3rd party system
- Pull alarm events from AC2000 and return related monitoring actions
- Customers have the ability to seamlessly interface with third party systems of their choice
- Send AC2000 Device information and Alarm configuration to 3rd party system
- Periodically retrieve Card Swipes transactions and outcomes
- Call for cardholder photographs

The AC2000 API provides a unique set of code and instructions, which allow developers to utilise subcomponents of the AC2000 system.

Functions implemented in the API allow customers to maintain Personnel, Vehicles and Visitor records from the third party system, with the ability to issue remote access control door commands and alarm based actions.

With these essential components, third party developers can design and maintain integrated applications that link seamlessly with the AC2000 system.

With AC2000 API features, customers have the ability to create powerful and fully integrated business and security applications of their choice.

Usage

The API interface is implemented as stored procedures written in only PostgreSQL. Application programmers should use either ODBC or JDBC to connect to the AC2000 CDC Server database and run the stored procedures after the API has been installed.

AC2000 v10.1 Software and up supports a full RESTful API which connects via a secure https socket.

Interface Functionality

AC2000 API allows a range of access control functions to be performed from a third party system.* Using the API developers can create a seamless and powerful integrated solution.

Devices

API stored procedures allow 3rd party system to retrieve initial snapshot of all devices configured in AC2000 system, including Device name, type and address.

Personnel

Personnel cardholder records can be added, updated or deleted, with the ability to remove access control card privileges and to add data to static user fields and extended user fields.

API also adds the ability to query personnel records using their serial number or hotstamp, and use returned results as information combined with other system events, such as reader alarms or invalid swipes.

Visitors

Using the API interface visitor records can be added/deleted or updated with the ability to also add/remove associated visitor access control cards.

Cardholder Images

Using the API cardholder photographs can be imported into the AC2000 system. This feature is only available in AC2000 v6.6 and upwards. Also a card holder's photograph can be called from AC2000 version 7.1. Thus for example, card transaction details along with the card holder's photograph can be stored on a third party system.

Vehicles

Using the API interface vehicle records can be added/deleted or updated. This feature is only available in AC2000 v6.7 and upwards.

Remote Door Commands

The API interface allows the AC2000 OneShot (instant door open) command and the 'Broadcast' (door open/ close) commands to be externally triggered.

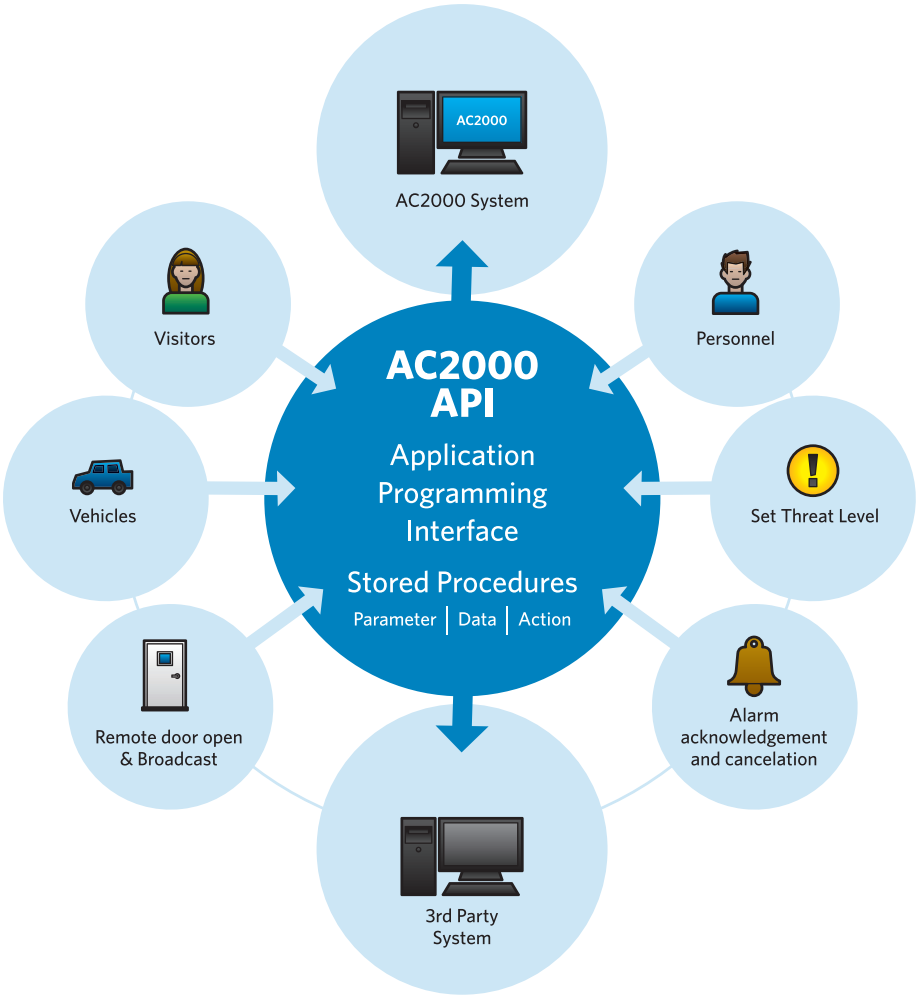
Alarms

3rd party systems also have the ability to retrieve an initial snapshot of all system alarms and reader input alarms configured in AC2000 system, as well as periodically poll AC2000 for any new alarms.

Requirements

- AC2000 v6.3 software and upwards*
- AC2000 Airport v6.6 software and upwards*
- RESTful API Supported via systems running AC2000 v10.1 and upwards

* For a complete list of API functions available with each version of AC2000 contact CEM



Related Products

- AC2000
- AC2000 Airport

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/141 Rev G

The power behind **your mission**