

# PAC Security Center

## Simplified and Robust OPC UA Security

In today's connected world security is a necessity for your IIoT strategy, but the path to creating security can be ambiguous. Emerson's PAC Security Center removes the complexity associated with system security by offering an easy yet reliable method of implementing and maintaining OPC UA technology. Comprised of the PAC Security Server and PAC Security Console, PAC Security Center leverages OPC UA to facilitate the authentication of applications and their communication based on public key infrastructure (PKI). This enables machine to machine communications while protecting from potential external or internal threats. Compliant with OPC UA Part 12, PAC Security Center offers peace of mind for embedded and Windows applications alike.

### PAC Security Server

PAC Security Server is a configurable tool to establish a database for managing OPC UA applications and their certificates. When an application is registered, its information is stored in the form of an application record which can then be discovered by clients via trusted discovery services. In turn, clients use this information to connect to servers to determine their endpoints. While acting as a global discovery server, PAC Security Server also works in the background to provide certificate management. It does this by providing the ability to sign and provision certificates to applications within an administrative domain. This forms a root of trust for the domain and makes PAC Security Server the central certificate authority.

### PAC Security Console

PAC Security Console is an interface used by Administrators to seamlessly configure secure communications for all OPC UA applications and is designed for simplified certificate provisioning with minimal engagement. By enabling one-to-many relationships, a system can have multiple security



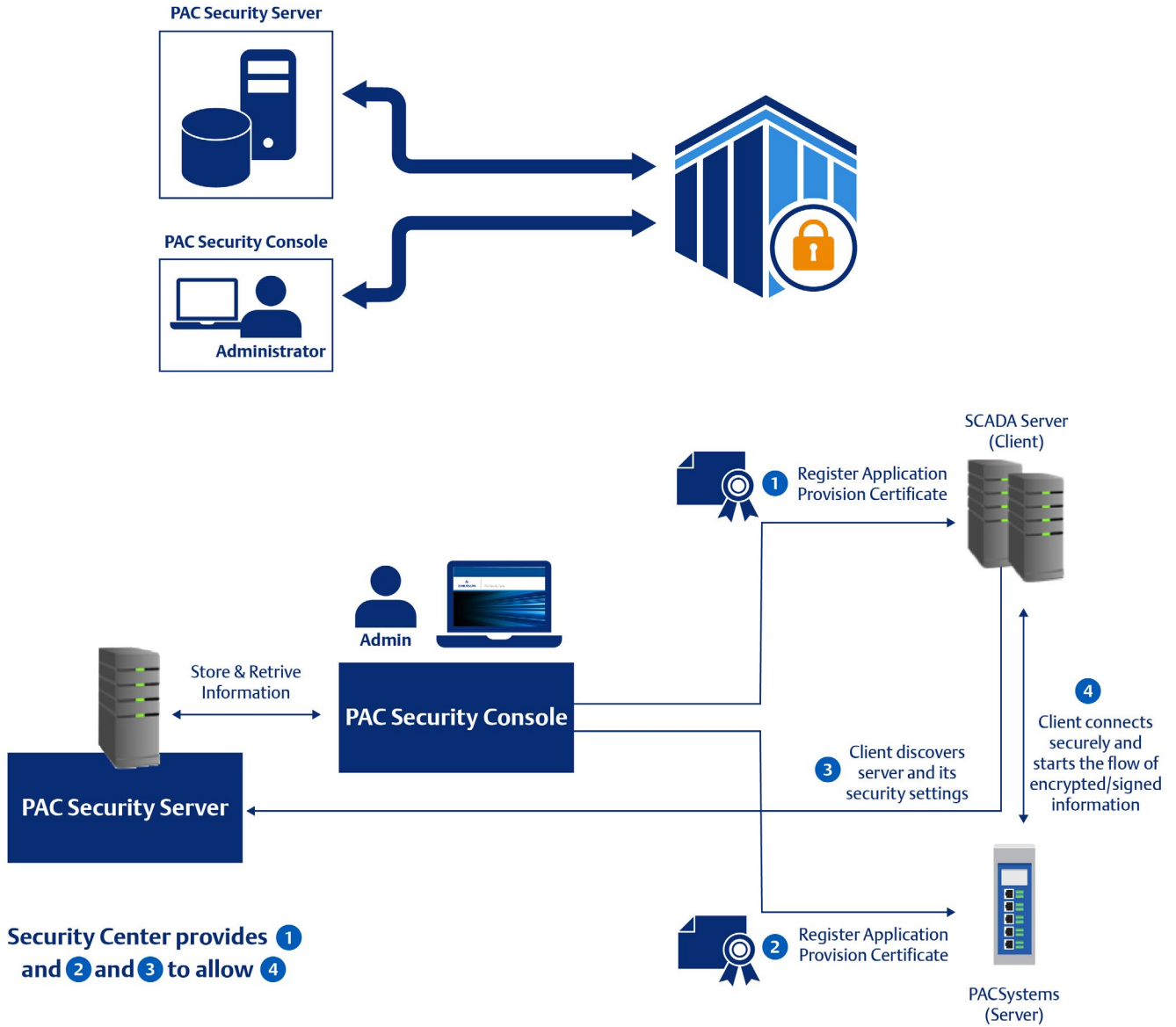
consoles simultaneously connected to a single PAC Security Server. The PAC Security Console has additional capabilities to configure products commonly used in OPC UA applications such as Emerson's PAC Controllers, CIMPLICITY, and UA Expert.

### Key Features & Benefits

- Painless setup – Makes the setup for OPC UA applications painless through easy registration and deployment of certificates saving both time and money.
- Global discovery – Provides discovery services to allow clients to discover servers and connect to them securely.
- Consolidated security – Provides central trust management for a group of OPC UA applications eliminating self-signed certificates which puts the trust decision on inexperienced personnel.
- Lifecycle management – Facilitates simple security management by renewing certificates and updating trust lists and revocation lists through their entire lifecycle.
- Client and server – Capable of managing both client and server applications.
- Diagnostics - Provides log files for debugging and troubleshooting.
- Certificate provisioning – Simplifies process of certificate provisioning on embedded headless devices, namely PACSystems PLCs.

## PAC Security Overview

Two major components integrated into one software package



**Specifications**

<b>Admin Domains</b>	Active Directory, Windows Groups
<b>Supported Applications</b>	CIMPLICITY 10.0 or higher UAaExpert v1.5.1 or higher
<b>Supported PAC Controllers</b>	IC695CPE302, IC695CPE305, IC695CPE310, IC695CPE330, IC695CPE400, IC695CPE410
<b>PAC Controller Firmware Required (if using Emerson PAC Controllers)</b>	9.85 or higher
<b>PAC Machine Edition Software Versions Supported</b>	PME 9.5 SIM 16 or higher
<b>PAC Security Console Minimum Installation Requirements (if installed independent of the server)</b>	Processor: 1 GHz or faster RAM: 2 Gb Hard Disk Space: PAC Security Console (12MB), PAC Security Server (19MB) Display: 1024 x 768 Operation System: Windows 10 (earlier versions may be compatible, but are unsupported)
<b>PAC Security Server Minimum Installation Requirements</b>	Any of the following operating systems, with specified service packs or revisions, fulfill the operating system minimum requirements for the Global Discovery Server.  Note: Only 64-bit operating systems are supported. Microsoft Windows Server 2019 Microsoft Windows Server 2016 Microsoft Windows Server 2012 R2 Microsoft Windows 10 Microsoft Windows 8.1

**Ordering Information**

Part Number	Description
SEDCM010	PAC Security Center Software License with capabilities of managing up to 10 applications
SEDCM025	PAC Security Center Software License with capabilities of managing up to 25 applications
SEDCM050	PAC Security Center Software License with capabilities of managing up to 50 applications
SEDCM100	PAC Security Center Software License with capabilities of managing up to 100 applications
SEDCM999	PAC Security Center Software License with capabilities of managing up to 999 applications

**Software available for download at time of order fulfillment.  
PAC Security Center Media option available for software delivered on a DVD.**

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