



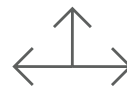
# C•CURE IQ Microservices

## Container-based Architecture



### Architecture Refresh

Re-designing to modern microservices container-based architecture



### Deployment Flexibility

Complete system deployment flexibility: on-prem, cloud or hybrid



### Scale and Expand

Double the number of protected doors on a single server



### Enhanced Toolsets

Extensive open toolsets and libraries with dashboard visibility



### Increased Resiliency

More resilient to failures, errors, and software upgrades



### Improved Cybersecurity

Improve cybersecurity by isolating processes into their own containers

## C-CURE IQ Microservices Overview

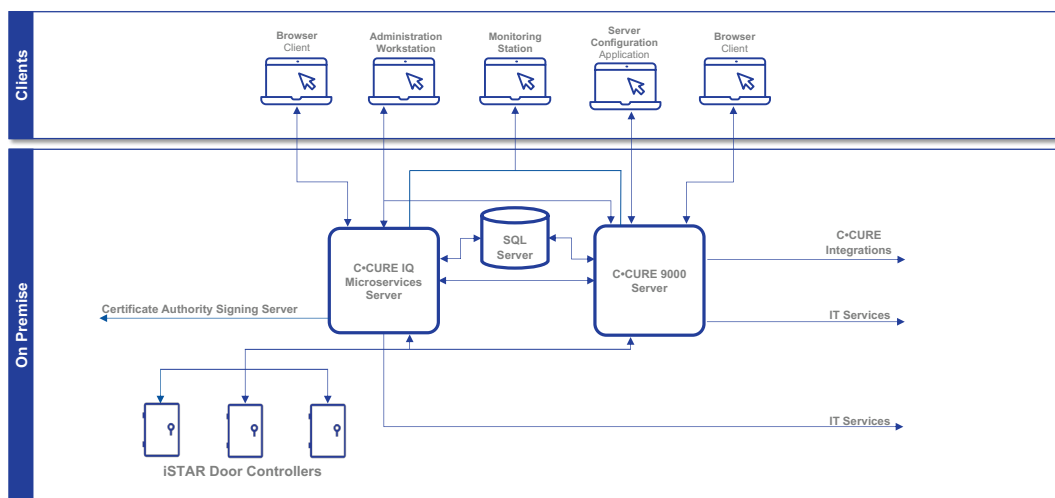
A modern approach to developing and deploying software, C-CURE IQ Microservices is designed to allow smaller components of software (ex: software drivers) to interact with each other over a standard network protocol such as HTTP. Historically, C-CURE 9000 runs as a single-process server, which is functionally like a monolithic software application. Monolithic applications are single-tiered, which means multiple components are combined into one large software application. The monolithic design tends to be large and complex to deploy and coincides with slower start-up times. With C-CURE IQ Microservices, the business logic is split into individually deployable services that are isolated from other services by network-based interfaces. This re-design allows for increased system scale, resiliency, and improved cybersecurity, by isolating the individual processes into their own containers.

C-CURE IQ Microservices are built for the Kubernetes® platform. Kubernetes (also known as K8s®) is an open-source system for automating deployment, scaling, and management of containerized applications. Kubernetes runs on a cluster of computers that are known as nodes. Each microservice is delivered as a container and deployed onto the Kubernetes cluster. Kubernetes orchestrates which nodes the individual microservices run on to keep the system running with native availability.

## C-CURE IQ Microservices Architecture

The diagram below provides a basic overview of how C-CURE IQ microservices are deployed and how they interact with other Software House components such as iSTAR Door controllers and C-CURE 9000 Administration and Monitoring workstations.

### C-CURE IQ Microservices



## C-CURE IQ Microservices Single Node

Scale and expand your existing server with C-CURE IQ Microservices Single Node. Have you reached your 5,000-reader limit on your existing C-CURE 9000 Series T server? With C-CURE IQ Microservices Single Node you can expand up an additional 5,000 readers from the tested limit! Instead of reaching a maximum of 5,000 readers on your server, you can now expand to 10,000 readers without needing to split across an additional Satellite Application Server (SAS).

# Technical Specifications

Recommended Hardware and Software	
Processor	One or more Intel Core i5 (or greater) Current Generation (3.2 GHz or greater) processors w/ minimum of 12 total threads
Hard Disk Drive	500GB or greater SSD required
Memory	32GB or greater
Network	10 Gigabit Ethernet (10 GbE) recommended
Operating System Support	Red Hat Enterprise Linux 7.9 with latest updates
Victor Application Server	Compatible with 4.00.2 of victor Application Server / v3.00.2 of C-CURE 9000
Database Support	SQL Server 2019 Standard/Enterprise (64-bit) Azure SQL Server Managed Instance (November 2022 feature wave)
iSTAR Compatibility	
iSTAR Ultra	Firmware v6.9.0 or higher
iSTAR Ultra SE	Firmware v6.9.0 or higher
iSTAR Ultra G2	Firmware v6.8.9 or higher
iSTAR Ultra G2 SE	Firmware v6.8.9 or higher
iSTAR Edge G2	Firmware v6.8.9 or higher
<i>*All older iSTAR panels cannot be connected to the microservices.</i>	
Limits	
Simultaneous Desktop Clients	100
Connected iSTAR Panels	1,750
Readers	10,000
Active Personnel	1,000,000
Active Credentials	1,000,000

## Ordering Information

### Go Reader Licensing

Model Number	Description
CCIQ-MS-SN	C-CURE IQ Microservices Single Node License Option
CC9-ST-ADD1KR	C-CURE IQ Microservices Add 1,000 Readers to a Series T
CC9-ST-ADD5KR	C-CURE IQ Microservices Add 5,000 Readers to a Series T*
<i>*Add 5,000 additional readers to a Series T with a maximum of 750 iSTAR Controllers on a single server.</i>	

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Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative.

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