



# Keyscan Hosted Services

A Centrally Managed Access Control Solution



# A convenient, new way

Since the launch of Keyscan's Centrally Managed Access Control (CMAC), access control as a service has forever changed. A simple concept that combined existing Keyscan access control hardware with a 'cloud-based' version of our industry-leading access control management software.

Together, they formed Keyscan CMAC which has revolutionized the business by introducing a new recurring revenue stream with access control. And, we made it easier for dealers and integrators to get started building intrinsic value in their business.

## Keyscan Hosted Services

Keyscan Hosted Services (KHS) takes CMAC to a whole new cost-saving level. With KHS, dealers and integrators can choose the option to have access control data and software hosted by Keyscan at our facility using our secure server infrastructure.

Keyscan Hosted Services simplifies the entire process and allows you the opportunity to create a CMAC business model offering remote and RMR-based managed access control services to your customers while avoiding the upfront expense attributed to implementing your own central host service.

### **KHS advantages with zero risk**

With Keyscan Hosted Services, dealers and integrators can take advantage of a CMAC model, build a base of customers, reap a new RMR revenue stream, and refine their business model in ways that will build lasting and intrinsic value to their organization.

Then, at a later time, if they ever choose to implement their own host service, Keyscan Hosted Services will make the future transfer of hosting responsibilities seamless and without complications.

Keyscan Hosted Services is the new and convenient way for dealers and integrators to enter the recurring monthly revenue (RMR) model with Access Control, while allowing you to leverage existing core competencies.

# to manage clients' access control

## Rethinking Access Control

Keyscan Hosted Services solution allows you to bring the benefits of Centrally Managed Access Control to a whole new group of customers that would not have previously considered it an option. The CMAC solution provides the convenience of web based access control without ever compromising security.

For the first time, Dealers and Integrators can save time and valuable resources by partnering with Keyscan to establish a CMAC RMR-generating service. This allows your customers to focus on their core business, while having peace of mind that access control security experts are managing their facility security.



## KHS high data security, ease of use, with no compromise

With any such internet-based hosting activity, security is always a top priority. Keyscan Hosted Services takes data security very seriously. That's why Keyscan uses AES Rijndael (Advanced Encryption Standard) technology to tightly secure all data transmissions.

AES Rijndael is a symmetric-key standard that offers 256 bit encryption. This encryption level is so effective, it is approved and used for US government "top secret" level data transmissions. Keyscan also mandates SSL data certificates for all internet based log-in access.

While security is a top priority, performance and ease of system installation is never compromised. KHS removes the up-front expense, maintenance and management commitment so you can focus on building your customer base and adding intrinsic value to your business.

Not only is your data encrypted and secure it is always safe and protected when you need it with KHS back-up provisions.

The result is high security coupled with day to day ease of use that is ultimately designed to maximize system deployments that drive a new found RMR stream.

What's more, you'll appreciate that KHS makes the future transfer of hosting responsibility seamless and without complication.



# Web Based Access Control Solutions

With Keyscan Hosted Services, your customers still get the same maximum flexibility leveraging Keyscan's highly secured servers and IT infrastructure.

Using Keyscan's industry-leading access control management software and the fully password protected K-WEB module; system management can be done from any PC or mobile device with an internet connection.

The power and flexibility of Keyscan Hosted Services and K-WEB module provides organizations the ability to manage their facility's access control systems.



K-WEB Home Page

## K-WEB capabilities

- Add and edit cardholders**
- Assign and update cardholder access privileges**
- Generate system reports**
- Lock, unlock and pulse controlled doors**
- Schedule visitors**
- Review system status**
- Change time zone schedules**
- Door maintenance and status**
- Live online transactions**



Cardholder Management

With Keyscan Hosted Services, all your customer needs is a web connection and K-Web. It is the ideal solution you can offer your customers who need, or want, some level of autonomous control over their systems.

Dealers and integrators may choose to create a 'turnkey' offering and provide a one-stop management of their customers access control systems contributing to increased RMR.



Door status control

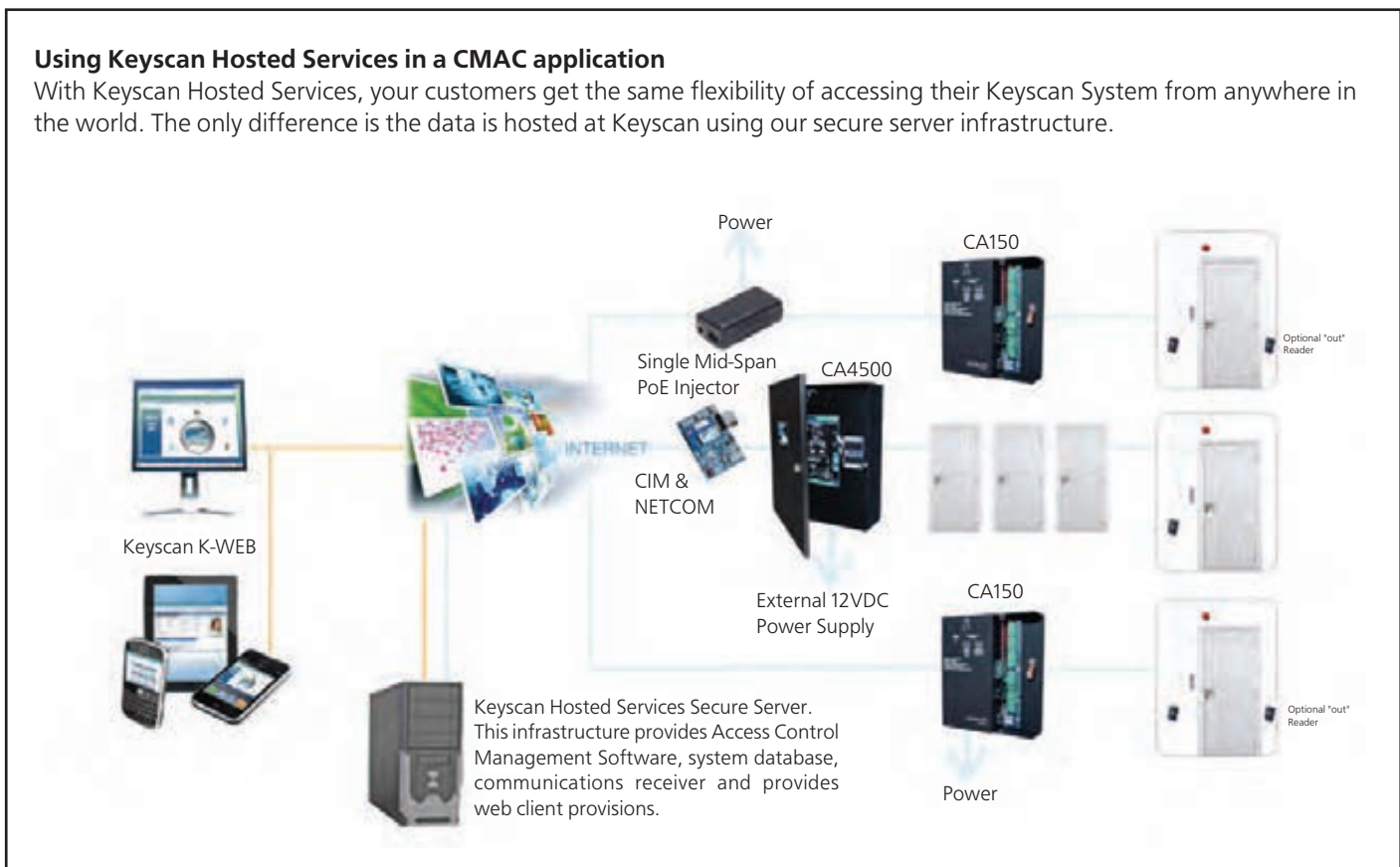
# Innovation driven by Reverse IP technology

Keyscan Hosted Services uses a "Reverse IP" network technology for host connectivity and communications. This is accomplished using Keyscan's NETCOM6 network communication board and a normal high speed internet connection. The Reverse IP technology establishes a Keyscan access control panel as a network appliance and reduces the level of IT knowledge required for system installation. And, with any such internet activity, your data security is ensured with Keyscan's adoption of AES Rijndael 256 bit encryption which is approved for US government 'top secret' level transmissions.

Keyscan's Reverse IP technology uses Dynamic Host Communication Protocol (DHCP), allowing the panel to auto negotiate a network IP address and eliminating the need for static IP addresses for the panel, which can be difficult to acquire. Navigating network ports and firewalls is also reduced with Keyscan's Reverse IP network technology. It ensures any technician can install the access control system with minimized network permissions or advanced IT training.

Once the installation is complete, connectivity with the Keyscan host is kept indefinitely. If the connection to the Keyscan host is ever lost, the panel remains fully operational and will automatically re-connect to the Keyscan host - while continuing to log all activities. Once the connection is made, all logged activity will be uploaded to the host.

Keyscan Hosted Services also runs the same Keyscan software you have come to depend on. No new training is required as all server and IT infrastructure is maintained by Keyscan.



# CA150 Single Door PoE Equipped ACU

## Making access control more accessible

Keyscan has always offered access control solutions that optimize system designs and maximize installation flexibility. At the heart of our organization is a vibrant team of engineers and product specialists that continually evaluate new and emerging technologies. Their aim is to select proven technologies that will enhance our product offering without compromising reliability and security.

The CA150 is a culmination of these efforts. The innovative CA150 represents the latest addition to Keyscan's flexible line up of 2, 4 and 8 reader access control units and elevator floor access control units. When it comes to performance, capacities and overall capability, the CA150 is comparable with our full range of access control units. From its total number of supported credentials to total number of supported time zones, not a single detail was overlooked.

Exclusive to the CA150 is the fact that it's equipped to support power-over-ethernet (PoE). That single door at the far end of a building or those customers that have only one critical door to be secured have never been so easily accommodated.

## How the CA150 works with Keyscan Hosted Services and CMAC solutions

The CA150 is the perfect solution for Keyscan Hosted Services and Centrally Managed Access Control solutions. With all of the on-site features (network connectivity, power requirements, and door access) all contained in a single part, setting up customer sites couldn't be easier.

Reverse networking functionality is built into the on-board Ethernet connection and, with the AES encryption, provides a secure connection from customer sites to the Keyscan host server. Whether opening a new site with one door, or adding an additional door to an existing site, the CA150 makes everything easier.

Keyscan's entire line up of ACU's are designed to support CMAC, providing maximum system design flexibility. Best of all, there is no limit to the total number of doors that may be centrally managed.



# CA150 Single Door PoE Equipped ACU

## Design overview

### A) Status LEDs

System status, communication and bit counter LEDs allow for instant system troubleshooting.

### B) Dual Processors

Dual processors ensure uninterrupted panel operation even during system downloads.

### C) Tamper Switch

If the CA150 cover is removed, for any reason, the tamper switch will activate triggering a Panel Tamper Alarm.

### D) Network Connectivity

Equipped with a PoE enabled Ethernet port (IEEE 802.3af); DHCP Supported; Encrypted/non-Encrypted modes.

### E) Four Supervised Inputs

Inputs allow for request to exit (RTE), door contact input and two auxiliary inputs.

### F) Two Reader Ports

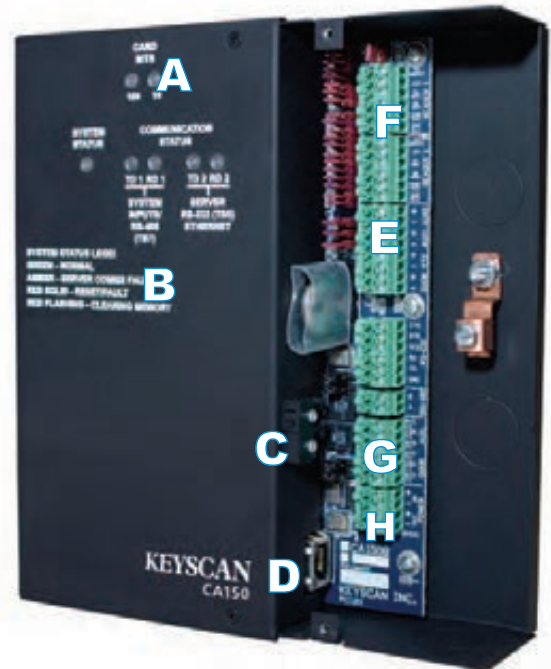
Provides IN and OUT reader capabilities; Readers powered in PoE or DC supply mode up to 12VDC @500mA per port.

### G) Two Heavy Duty Relays

One Strike Relay and one Auxiliary Relay are provided; Selectable powered or non-powered modes. Powered mode provides up to 12VDC @ 500mA per relay. Non-powered provides dry contact rated for 4 amp, 30VDC; 6 amp, 24VDC.

### H) DC Input/Output

When PoE is not available a 12VDC input option is provided. Also available is a 12VDC output to supply any local auxiliary device such as a PIR, or glass-break sensor rated for 12VDC up to 250mA.



Mix and match with Keyscan's full line up of access control and elevator floor control units: CA250; CA4500; CA8500; EC1500 and EC2500.

## Keyscan makes hosted services simple

Be sure to inquire about Keyscan KHS kits. We've simplified the KHS sales and ordering process by introducing CMAC kits. These kits are pre-configured to connect to Keyscan Hosted Servers and come complete with readers, cards and all necessary communications hardware.

# KEYSCAN'S FULL LINE UP OF ACCESS CONTROL UNITS

		PoE Single Door Control System	Multiple Reader Access Control Systems				Elevator Floor Control Systems	
								
		CA150-KHS	CA250	CA4500	CA8500	EC1500	EC2500	
Access Control Unit	Doors/Elevator Floors Supported	1 door	2 doors	4 doors	8 doors	1 cab (up to 40 floors)	2 cabs (up to 16 floors)	
	Reader Ports	2 (In/Out)	2	4	8	1	2	
	Multi-ACU Compatibility	Yes (Ethernet)	Yes	Yes	Yes	Yes	Yes	
	System Status LEDs	Yes	Yes	Yes	Yes	Yes	Yes	
	Dual Processors	Yes	Yes	Yes	Yes	Yes	Yes	
	Flash Memory	Yes	Yes	Yes	Yes	Yes	Yes	
	Power Fail Output	NA	Yes	Yes	Yes	Yes	Yes	
Floor Monitor Inputs (Supervised)	NA	NA	NA	NA	NA	Yes	Yes	
Inputs	Request to Exit (RTE) Inputs (Supervised)	1	2	4	8	NA	NA	
	Door Contact Inputs	1	2	4	8	NA	NA	
	Auxiliary Inputs (Supervised)	2	8	16	16	NA	NA	
	I/O Input Expansion	NA	NA	64 (banks of 16)	64 (banks of 16)	NA	NA	
Outputs	Auxiliary Output Relays	1	2	4	8	NA	NA	
	Expansion Auxiliary Output Relays	NA	NA	8	8	NA	NA	
	I/O Outputs	NA	NA	64 (banks of 16)	64 (banks of 16)	NA	NA	
	Door Output Relays	1	2	4	8	NA	NA	
Capacity	No. of Cardholders	32,000	32,000	32,000	32,000	32,000	32,000	
	Transaction File Buffer	6000	6000	6000	6000	6000	6000	
	Time Zones	256	256	256	256	256	256	
	Time Schedules	512	512	512	512	512	512	
	Group Levels	511	511	511	511	511	511	
	Holiday Dates	64	64	64	64	64	64	
Connectivity	PoE-Power over Ethernet (IEEE 802.3af)	Equipped	NA	NA	NA	NA	NA	
	KHS Reverse IP	Equipped	Optional	Optional	Optional	Optional	Optional	
	Serial Communication	Yes (single panel)	Yes	Yes	Yes	Yes	Yes	

To learn more contact your Keyscan Regional Sales Manager or call: 1 888 KEYSKAN (539.7226)



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Keyscan Inc. LR110441-1 complies to:  
UL STD 294 Fifth Ed. Access Control System Units  
CA8500; CA4500; CA250; EC1500; EC2500  
16V ac, 40VA, Class 2 input; relay output  
contacts, 24V ac, 10A; 30V dc; 5A  
205-M1983 Signal Equipment

