Data Sheet

EntraPass Global Edition
Enterprise Level Security Management Software

Features That Make a Difference

- Support for ioSmart Smart Card Readers & Cards
- RS-485 Input/Output Module compatibility
- Integration with HID Mobile Access for mobile credentials
- Gain access to doors with a one time unlock command using the EntraPass go Pass mobile app
- Supports up to 128 workstations and controls hundreds of thousands of doors
- Supports up to 200 concurrent logins of EntraPass web and/or EntraPass go
- Integrates with Exacq video management systems, DSC PowerSeries intrusion alarm panel models and the Kantech INTEVO integrated security platform

Enterprise Level

EntraPass Global Edition is a powerful, network-ready enterprise level security management software that accommodates widely-dispersed applications with an unlimited number of users, controls thousands of doors and allows you to simultaneously access the system from up to 128 workstations connected to the network.

Remote, Mobile Access

EntraPass Global Edition supports the intuitive EntraPass web and EntraPass go mobile applications which offer customers a feature-rich security experience. System administrators can securely connect via the web or a dedicated app on their smart phone/tablet and manage common access control, video and intrusion functions wherever they are.

EntraPass also supports the EntraPass go Pass mobile app which allows users with appropriate credentials to quickly and conveniently access secured areas with a few taps of a mobile device. EntraPass go Pass turns an iOS mobile device into an access control credential. Once the app connects to the Kantech EntraPass server, it presents you with a list of doors that you are authorized to enter.

Managing Controllers for Enterprise Solutions

The KT-NCC manages communication from the EntraPass Global Edition to the door controllers. It also controls features/functions such as areas, alarm systems, global I/O, guard tours, and secondary access levels. It makes the access control system easier to manage, easier to expand, and much more reliable. The KT-NCC is in control instead of relying on a PC for controller-server communication.

*All features listed on this data sheet are available with the latest build of EntraPass v8.10 and higher.

Site Architecture

A site within EntraPass represents a customer's building, campus, etc. and is composed of many different connections, which have multiple door controllers attached. The system can manage up to 2,048 local IP connections (consisting of KT-1, KT-100, KT-200, KT-300 or KT-400 door controllers) per Multi-Site Gateway. Each KT-NCC supports 3 local connections (32 controllers each) and 4 remote connections (8 controllers each). The KT-NCC provides advanced cross controller communication giving customers higher flexibility and functionality.

EntraPass supports the use of third party card readers as well as Kantech's ioSmart and ioProx readers. ioSmart readers provide end-to-end AES 128-bit encryption between the ioSmart card and ioSmart reader, ioSmart reader and Kantech KT-1 and KT-400 controllers over RS-485 and the aforementioned controllers to EntraPass software over IP. ioProx readers feature the 39-bit XSF, Kantech Extended Security Format, and can be connected using existing CAT5e cabling for installation cost savings.

Network Ready

EntraPass software is compatible with Kantech IP devices such as KT-400/ KT-1 controllers and Kantech IP Link (KT-IP) which all utilize 128-bit AES encryption to protect ensure communication against compromise. KT-IP is an RS-232 to TCP/ IP interface that connects KT-100 or KT-300 door controllers to a network and the K T-400 controller is a high proven IP controller that supports up to 8 ioProx readers (4 doors IN/OUT control using ioProx XSF readers). For the utmost flexibility and as a truly plug & play IP device, the KT-1 controller features a direct Ethernet port, PoE/PoE+ capabilities and can be easily surface mounted above the door, thus reducing cabling and installation time. With its innovative one-touch set-up and enrollment process, KT-1 provides integrators with the ultimate IP access control installation in minutes.

Kantech's IP devices offer real-time access to security information and integrate seamlessly into an existing TCP/IP network; meaning no changes to existing equipment, network, or related systems. They also act as a polling device to ensure the controllers communicate with EntraPass only as required, reducing network traffic.

Door Controller Compatibility

EntraPass software is compatible with Kantech's complete line of door controllers to create a highly scalable solution that can be deployed within one building or across multiple locations. You can mix and match KT-400 and KT-1 together for the best solution to fit your specific needs.

EntraPass now makes the migration to KT-1 and KT-400 controllers from legacy Kantech controllers easier for existing Kantech end users. You can automatically move the legacy controller's door programming, access levels, triggers, graphics, etc. to the new controller eliminating the need to reprogram the entire access control system from the ground up.

Redundant Server and Gateway

A redundant server protects the EntraPass database against unexpected failures and is an option available with Global Edition software. It features real-time data transfer, creating fully functional redundancy at low cost. In the event of primary server failure, the redundancy server supports all the features and functionality of the primary server.
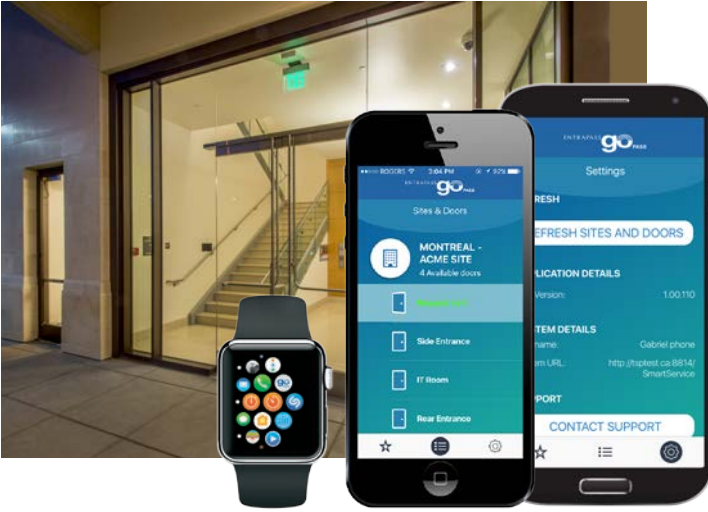
In addition, EntraPass Global Edition offers a redundant gateway. EntraPass can be configured to switch to the redundant gateway automatically when connection to the primary gateway is lost. This ensures your system remains operational in the event of a gateway failure.

Global Security Features

EntraPass Global Edition is ideal for widely-dispersed applications that require a higher level of security. For example, global anti-passback helps you prevent a cardholder from passing back his or her card to a second person to gain entry into a secured area. In addition, powerful alarm partitioning lets you divide an area protected by the EntraPass system into as many as 100 partitions per Global Gateway.

EntraPass Global Edition and KT-NCC also enable you to control clearances globally. For example, a worker with temporary access to one part of the building or campus will lose access once the authorized clearance duration has passed.

EntraPass also provides muster reports which are critical for emergency situations where it is crucial to evacuate a building as quickly as possible. You can print a list of personnel in a predefined group of areas to determine who is present. Mustering includes a parking management function which notifies users when a parking area is exceeding its capacity and restricts access to the area.

Remote System Management Tools

The EntraPass web platform enhances the user experience by delivering remote and convenient real-time access to manage common security tasks and reports from any computer connected to the internet. Security managers on the go can perform a host of functions via EntraPass web, including locking/unlocking doors, managing cards and schedules, requesting reports, viewing live/recorded video and PTZ control, video searching and playback, monitoring events by floor plan and so much more. Simply download the EntraPass web application from any Windows PC web browser and stay connected even when on the go.

EntraPass go is a mobile app that allows you to remotely control your security system from anywhere without being tied to a workstation. EntraPass go puts you in control of your security. It enables you to interact with EntraPass Security Management Software using only a few taps on your mobile device. The easy-to-use mobile app offers anytime, anywhere real-time management of over 20 security tasks. You can manage/ create cards, lock/ unlock doors, view video, playback video and PTZ control, request reports and more. EntraPass go is available for download on the App Store and Google Play.

Synchronization with Microsoft Active Directory

EntraPass offers integration with Microsoft Active Directory which synchronizes Active Directory with EntraPass operators and card holders, eliminating the need for their manual creation in the EntraPass database. The integration also enables Single Sign On, where operators are automatically authenticated and logged into EntraPass via their Windows credentials with one simple click.

Kantech Advantage Program

As EntraPass Security Management Software continues to deliver new features and enhancements, it is important to have the productivity tools to effectively use this solution. The Kantech Advantage Program (KAP) allows you to stay current with your EntraPass software installation using tokens. The number of tokens required is based on the EntraPass options activated.

Alarm Panel Integration

Kantech offers integration kits to connect a DSC PowerSeries, PowerSeries Neo, PowerSeries Pro or MAXSYS intrusion alarm panel to a Kantech access control system to create a single integrated solution. Data integration allows the access control system to receive intrusion events, view zone status to manage partitions/user codes and arm/ disarm via card reader. *Please note: DSC PowerSeries Neo Virtual Keypad offering is not available at this time.

The virtual zones feature in DSC PowesrSeries Neo allows for the access control events from the Kantech system to be sent over to the Central Monitoring Station for even better situational awareness.

ITV2 Type 2 encryption is an integration option for use with both the PowerSeries Neo and PowerSeries Pro panels, which adds security to the connection.

Video Integration

Real-time monitoring capability is a response to the growing importance of video in access control systems. Integration with Exacq video management systems, American Dynamics DVRs/ NVRs (VideoEdge, HDVR, ADTVR and Intellex) and Kantech INTEVO integrated security platform provides real-time video monitoring as well as video playback. Video can be linked to access events (such as "door forced open") and recorded from one to sixteen cameras from compatible DVR/NVR simultaneously. All cameras can be called up directly from a floor plan simply by double-clicking on the camera or dome icon. Store video alarm clips at an off-site location using the protect storage features of VideoVault.

ASSA ABLOY Aperio Wireless Lock Integration

Kantech expands its integrated user experience by adding the support of ASSA ABLOY Aperio wireless locks. The Aperio locks are managed directly through EntraPass. Each Aperio lock communicates with an Aperio wireless hub, which communicates back to the KT-400 and KT-1-M door controllers over RS-485. Online transactions mean that EntraPass is updated in real-time, providing a high level of control and visibility of door actions. See ASSA ABLOY Aperio data sheet on www.kantech.com for additional information.

Telephone Entry Integration

The Kantech Telephone Entry System (KTES) delivers a fully integrated telephone entry and access control solution. The KTES provides visitor/resident entry, tracking and reporting. It uses a touch-tone phone style keypad that offers both familiarity and ease of use. Two-way audio is built-in.

Action Scheduler

Use the Action Scheduler to create actions (one-time or recurring). The actions are linked to multi-swipe programming such features as locking/ unlocking doors, arming alarm systems and toggling relays.

Audit Trail

The Audit Trail functionality provides a detailed report on who makes changes and when the changes occurred to a card or component. Audit reports are available based on cards, components and/or operators. Detailed information includes: the type of change, menu that was changed, number of fields changed, name of the GUI field, value before/ after the change, and data type.

Installation Simplified

The EntraPass go Install mobile app provides easy configuration of KT-1 and KT-400 controllers by scanning a QR code. The scan auto-fills the controller's MAC address and serial number, eliminating the need to manually enter the information. The app's setup also includes pre-populated fields, which you can easily modify and label (e.g. Front Lobby Door, Warehouse Exit Door, etc.) to configure the doors.

*Some features and integrations may require additional licensing options, please reference the Ordering Information table for details.

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Basic System Diagram

Minimum System Requirements

Processor (without video integration)	Intel® Core™ 2Duo 2.6 GHz or more
Processor (with video integration)	Quad Core
RAM	4GB or more (8GB with video integration)
Minimum Free Hard Disk Space for Software	50GB
Color Depth	24-bit (16 million colors), required for video integration
Screen Resolution	1024 x 768; 48X CD-ROM drive
Graphic Adapter Card	PCI express graphics card with 512MB (1GB with video integration) memory and DirectX 9.0 support
Network Interface Card	10/100 Base-T network adaptor (gigabit or greater with video integration)
Operating System Compatibility	Windows 10 Pro/Enterprise, Windows 7 Pro/Enterprise/Ultimate, Window 8 and 8.1 Enterprise, Windows Server 2008 R2 Standard/Enterprise, Windows Server 2012 R2 Datacenter, Windows Server 2016 Datacenter, Windows Server 2019 Datacenter. All operating systems are supported in 32 and 64-bit version. All operating systems should have their latest Service Packs and updates. For integrations, validate specifications of products used.
Virtual Environment Supported	VMware Workstation v7 and higher

Specifications

System Capacities	
Cards per Gateway (Online)	Unlimited
Card Families or Site Codes	Unlimited
Global Gateways	128
Multi-Site Gateways	40
Elevator Floors per Cab	64 (KT-300 and KT-400)
Card User Access Levels per site/Gateway	250
Access Level Combination	Unlimited
Operator Workstations	128 workstations
Concurrent EntraPass web Logins	200
System Operator Passwords	Unlimited
Operator Security Levels	Unlimited, pre-defined (3)
Concurrent System Languages	2
Action Scheduler	999 actions
VideoVault NVR Connections	512
Per Global Gateway	
Connections per Global Gateway	32
Door Controllers	1,024
Card Readers/Keypads KT-1 KT-300 KT-400	 2,048 2,048 4,096
Monitored Points (Inputs) KT-1 KT-300 KT-400	 Up to 5,120 Up to 16,384 Up to 262,144
Auxiliary Outputs for Reader LEDs and Door Alarms KT-1 KT-300 KT-400	 Up to 4,096 Up to 4,096 Up to 8,192
Schedules	100/gateway
Time Intervals Per Schedule	20
Holidays	366/gateway
Access Level Per Card Holder	13
Per Multi-Site Gateway	
Connections per Multi-Site Gateway	Up to 2048 (IP, USB, Dial up)
Card Readers/Keypad KT-400, KT-1, KT-300	Up to 10,000
Monitored Points (Inputs) KT-400, KT-1, KT-300	Up to 100,000
Auxiliary Outputs for Reader LEDs and Door Alarms KT-400, KT-1, KT-300	Up to 100,000

Schedules	100/site
Time Intervals Per Schedule	KT-300 (4), KT-400/KT-1 (20)
Holidays	366/site
Access Levels per Cardholder	KT-300 (1) KT-400/KT-1 (5) per site
Integration Capabilities	
Intrusion	DSC PowerSeries (PC1616, PC1832, PC1864, PC4020), PowerSeries Neo (HS2016, HS2032, HS2064, HS2128), PowerSeries Pro (HS3032, HS3128) and MAXSYS (PC4020) Alarm Panels
Video	Exacq video management systems (v7.8.1) and American Dynamics DVRs/ NVRs (VideoEdge up to v4.6 and previous 4.xx versions), HDVR (v4.3.0.374), ADTVR (first gen v2.2; second gen v2.5), Intellex (up to v5.0) and the INTEVO platform. Intellex Ultra, DVMS and IP all require EntraPass software v3.1 or higher, Intellex LT requires software v2.6 or higher. Panasonic video recorders (requiring option E-COR-DVR-1): WJ-HD309A/316A/616/716, WJ-ND200/300/400.

Ordering Information

Model Number	Description
Software	
Each EntraPass Global Edition software package includes: four additional Workstation licenses, one Server/Workstation license, one Global Gateway (Windows NCC) license and one web license.	
E-GLO-V8	EntraPass Global Edition software
E-GLO-V8-LIC	EntraPass Global Edition software license
E-GLO-V8-NL	EntraPass Global Edition software, no license
Additional Workstation and Gateway Licenses	
E-GLO-WS1	License for 1 Workstation (v3.xx and higher)
E-GLO-WS8	License for 8 Workstations (v3.xx and higher)
E-GLO-COM-WIN	License for 16 Global Gateways - Windows NCC - (v3.xx and higher)
E-GLO-CORCOM	License for 40 Multi-Site Gateways (v3.xx and higher)
E-GLO-CORCOM-RDN	License for Redundancy Gateway (v7.0 and higher)
Options	
E-GLO-LDAP	License for optional Active Directory (LDAP) integration
E-GLO-RDN	License for 1 Redundancy Server (v3.xx and higher)
E-GLO-SQL	License for 1 Card Gateway - MS SQL Database Interface (v3.xx and higher)
E-GLO-VVM	License for 1 EntraPass VideoVault (v3.xx and higher)
E-GLO-WEB-X	License for concurrent web login (v4.xx and higher) (X = 1, 3, 10, 25 or 50)
E-GLO-INFVID	License for EntraPass InfiniView - 128 additional video servers (v5.01 and higher)
E-GLO-DVR-1	License for single third party DVR (v5.02 and higher)
E-GLO-DVR-UNL	License for unlimited third party DVR (v5.02)
E-GLO-PASS-X	EntraPass go Pass credentials (X=50, 100, 500)
E-GLO-CONNECT	License for 1 Workstation (v7.0 and higher)
Kantech Advantage Program (KAP) Tokens	
E-GLO-KTK-X	Kantech tokens (X = 1, 2, 3, 5, 10, or 20)
Wireless Locks	
E-GLO-DOOR-X	Wireless lock integration license for additional doors for Global Edition v7.0 and higher (X = 1, 4, 8, 24, 48, 96)