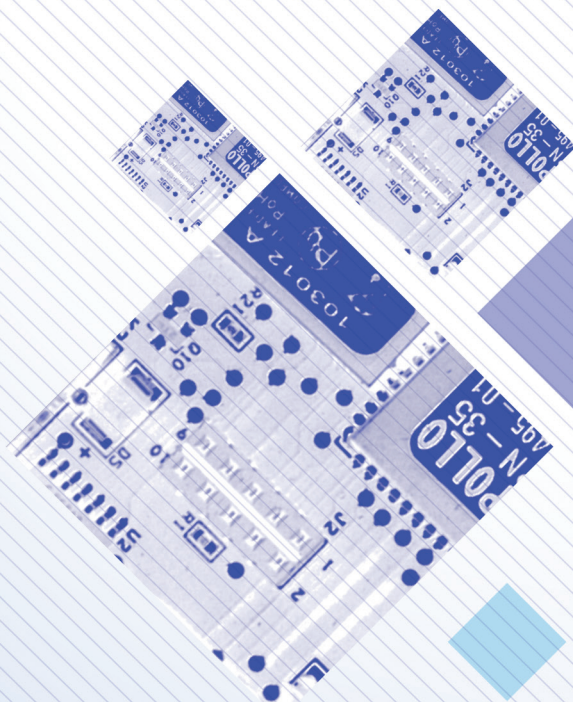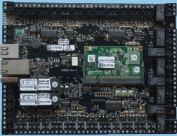# PRODUCT GUIDE

CLUSTERING CONTROLLERS

Integrated controller/reader interface device with high functionality and network clustering.
Programmable functions to provide possibility of post-factory customization.

MODEL	CAPACITY	ACCESS LEVELS	COMMUNICATION	MEMORY	DIMENSIONS
ASP-4 4 Native Readers 16 Expansion Readers 128 Reader Cluster	250,000 Cards 100,000 Events	300 Access Levels 50 ALs Per Card	Dual 10/100 LAN RS485	512 MB NAND 256 MB DRAM	8x6x1.0 in 20.3x15.2x2.54 cm
ASP-2 2 Native Readers 16 Expansion Readers 128 Reader Cluster PoE+ Option	250,000 Cards 100,000 Events	300 Access Levels 50 ALs Per Card	Single 10/100 LAN RS485	512 MB NAND 256 MB DRAM	8x5.5x0.88 in 20.3x13.9x2.23 cm

Clustering capability for up to 128 readers provides intra-device configuration, programming and cardholder status. Multi-function access, alarm, elevator control. Embedded scripts for non-standard functions and integration to 3rd party devices/protocols. Fully encrypted comms. ODSP Secure Channel.

ALARM PANELS

Alarm Input/Output modules for integrated monitoring and annunciation.
Direct integration platform for intrusion, fire and control systems.

MODEL	INPUTS	OUTPUTS	COMMUNICATION	FEATURES	DIMENSIONS
ASP-IO168	16	8	Ethernet, RS-485	Entry/Exit delay, Mask Time Zone, Zone-Output Linkage PoE+	7.5x5.5x0.75 in 19x14x1.9 cm
ASP-I16	16	-	Ethernet, RS-485	Entry/Exit delay, Mask Time Zone PoE+	7.5x5.5x0.75 in 19x14x1.9 cm
ASP-O8	-	8	Ethernet, RS-485	Configurable Relay Pulse PoE+	7.5x5.5x0.75 in 19x14x1.9 cm

ASP-IO168 comes with multiple assembly options supporting network or serial communication, with PoE or without PoE option.
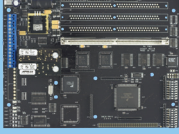
ON-BOARD EMBEDDED

The Apollo ASP-4 and ASP-2 now comes with an Embedded software option. The Apollo ON-BOARD EMBEDDED is powerful Plug and Play access control which runs locally on these Apollo Controllers without the need of any software installation to your PC.

Apollo ON-BOARD EMBEDDED supports up to 16 controllers with 1 primary controller and 15 seconadry controller.

Full access control operation and configuration such as adding cardholders, monitoring events, monitoring hardware status, running reports and many other features can be done with the ON-BOARD EMBEDDED
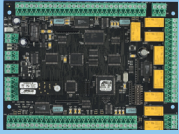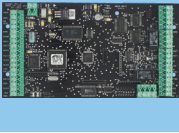
LEGACY CONTROLLERS

System controllers that support reader interface and alarm devices.
Robust feature set, full database storage for high security systems.

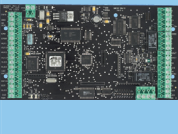| MODEL		CAPACITY	ACCESS LEVELS	COMMUNICATION	MEMORY	DIMENSIONS
AAN-100 96 Readers		up to 1.2M Cards 65,535 Events	256 Access Levels 38 ALs Per Card	LAN, RS-232, RS-485	1 MB Standard 8 MB Max	7.5x5.5x1.0 in 19x14x2.54 cm
		Anti-passback (complex), Timed Anti-Passback, Auto-Activation/Deactivation, Internally Stored IF/THEN, FIPS Credentials, Precision Access/Exclusion, Advanced Escort, Encrypted Communication. Network device/hybrid serial capable.				
AAN-32 32 Readers		up to 297,00 Cards 65,535 Events	256 Access Levels 38 ALs Per Card	LAN, RS-232, RS-485	1 MB Standard 2 MB Max	7.5x5.5x1.0 in 19x14x2.54 cm
		32 Reader version of AAN-100 with full feature set. Full network device support.				

INTEGRATED CONTROLLERS

Standalone controllers with built-in reader connections and local database.
Essential feature set and offline operation, best for remote sites or basic installations.

MODEL		CAPACITY	ACCESS LEVELS	COMMUNICATION	INPUTS/OUTPUTS	DIMENSIONS
AAN-4 4 Readers/4 Doors		up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	4 Auxiliary Inputs 4 Auxiliary Outputs	7.5x5.5x1.0 in 19x14x2.54 cm
		Hard/Soft Anti-passback, Mantrap support, Fast Turnstile Mode, Door Bolt Monitoring, Time Zone Control, Two-man rule, Tamper alarm, PIN Support, Extended Strike Timer, Local Database				
AAN-2 2 Readers/2 Doors		up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	1/2 Auxiliary Input 0/1 Alarm Out unpaired/paired mode	7.5x4x1.0 in 19x10.16x2.54 cm
		Full feature set of AAN-4 with support for 2 doors with a 1 reader each or 1 door with an entry and exit reader				
AAN-1 2 Readers/1 Door		up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	2 Auxiliary Input 1 Alarm Out	7.5x4x1.0 in 19x10.16x2.54 cm
		Full feature set of AAN-4 with support for 1 door with an entry and exit reader				

READER INTERFACES

Connection modules for readers and door hardware that connect to master controllers.
Equipped with local database for offline operation.

MODEL		CAPACITY	ACCESS LEVELS	COMMUNICATION	INPUTS/OUTPUTS	DIMENSIONS
AIM-4SL 4 Readers/4 Doors		up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	4 Auxiliary Inputs 4 Auxiliary Outputs	7.5x5.5x1.0 in 19x14x2.54 cm
		Hard/Soft Anti-passback, Mantrap support, Fast Turnstile Mode, Door Bolt Monitoring, Time Zone Control, Two-man rule, Tamper alarm, PIN Support, Extended Strike Timer, Local Database				
AIM-2SL 2 Readers/2 Doors		up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	1/2 Auxiliary Input 0/1 Alarm Out unpaired/paired mode	7.5x4x1.0 in 19x10.16x2.54 cm
		Full feature set of AIM-4SL with support for 2 doors with a 1 reader each or 1 door with an entry and exit reader,				
AIM-1SL 2 Readers/1 Door		up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	2 Auxiliary Input 1 Alarm Out	7.5x4x1.0 in 19x10.16x2.54 cm
		Full feature set of AIM-4SL with support for 1 door with an entry and exit reader				

READERS - PROXIMITY

Contactless card readers.
Contact your Apollo Representative for a full line of supported card readers including Smart Cards.

MODEL		TECHNOLOGY	COMMUNICATION	FEATURES	POWER	DIMENSIONS
HID SIGNO 20		MIFARE, HID Prox,Mobile Credentials	Wiegand OSDP RS-485	Bluetooth & NFC Supprot Multiple New Technology	12 VDC 70mA average	1.77 x 4.78x0.77 in 4.5x 12.1x1.9 cm
HID SIGNO 20K		MIFARE, HID Prox,Mobile Credentials	Wiegand OSDP RS-485	Bluetooth & NFC Supprot Multiple New Technology	12 VDC 75mA average	1.78x 4.79x0.85 in 4.5 x 12.1x 2.1cm
HID SIGNO 40		MIFARE, HID Prox,Mobile Credentials	Wiegand OSDP RS-485	Bluetooth & NFC Supprot Multiple New Technology	12 VDC 75mA average	3.15x 4.78x0.77 in 8 x 12,1x 1.9 cm
HID SIGNO 40K		MIFARE, HID Prox,Mobile Credentials	Wiegand OSDP RS-485	Bluetooth & NFC Supprot Multiple New Technology	12 VDC 80mA average	3.16x 4.79x0.85 in 8 x 12.1x 2.1 cm
FARPOINTE DATA DELTA 3		MIFARE DESFire EV1 & EV2	Wiegand, ABA Track II Magnetic OSDP	MAXSecure™ ValidID™ Mullion Mount	8-14 VDC 135mA typical	1.7 × 3.2 × 0.7 in 4.3 × 8.1 × 1.8cm
ARC-A STid		Mifare DESFire EV2	Wiegand, OSDP RS-485	Customizable Design, Modular Upgrades, 360 color LED	7-28 VDC 100mA average	4.1x 3.2x0.9 in 10.7x8.0x2.6 cm

READERS - BIOMETRIC

Readers utilizing human characteristics for increased identity certainty.
Template storage available with APACS software Biometric Features and on ASP Controllers.

MODEL		TECHNOLOGY	COMMUNICATION	FEATURES	POWER	DIMENSIONS
BioStation 2 SUPREMA		Fingerprint HID Prox iClass DESFire	LAN RS-485	500,000 Template, LCD Display IP65	12 VDC, PoE	5.3x5.03x 1.9 in 14.5x14.5x45 cm
MorphoAccess Sigma IDEMIA		Fingerprint HID Prox iClass DESFire BioPIN	LAN RS-485 WiFi 3G	100,000 Template, Touchscreen Display NFC	12 VDC 500mA, PoE	6x5.9x2.3 in 153x151x58.5 cm
HandKey II SCHLAGE		Hand Geometry	LAN RS-485	Up to 250,000 templates, LCD Display	12-24 VDC	11.65x8.85x8.5 in 29.6x22x21.7 cm

READERS - SPECIAL USE

Specially designed readers for use in construction, oil & gas, petrochemical and other industries where security and safety are paramount.

MODEL		TECHNOLOGY	COMMUNICATION	FEATURES	POWER	DIMENSIONS
AP-Mobile		HID Prox iClass Mifare	Wi-Fi 4G	Full Offline Database w/ Access Levels & Photos	4500ma wireless charging battery	6x4x.75 in 15.2x7.9.1x1.5 cm
ATX Series STid		Proximity Mifare Desfire UHF	Wiegand RS-485	GUB Ex II 2 GD Area Certified	7-28 VDC 150mA typical	12.2x10.63x6.89 in 31x27x17.5 cm

MULTIPLE READER TYPES SUPPORT

Apollo supports multiple types of readers, Including PIV, TWIC, CAC and OSDP secure communication readers.

REFERENCES

- US Nuclear Power Plants; European power & research sites
- National Laboratories in US & Canada
- Military facilities in US, Iraq, and other countries
- 6 of the top 10 global pharmaceutical companies
- Top container shipping and worldwide delivery companies
- Seaports in Europe, Africa and Asia
- Major healthcare facilities in US, Singapore, GCC
- Top market share of access control in CIS

- High profile Oil & Gas installations including one of the longest pipelines, largest GTL plant and many key production sites
- Kashagan, South China Sea, South America, North Sea and Middle East/Africa Oil & Gas facilities
- Banking facilities including several national reserve and engraving and printing facilities
- Major transportation sites including metros and railways
- Airports including Moscow area, US, Middle East, Africa

POWER SUPPLIES

Heavy duty steel enclosures with power supply and distribution board.
Available in configurations with or without backup battery.

MODEL		OUTPUT	INPUT	FEATURES	BATTERY	DIMENSIONS
APU-1210		13.8 VDC 10.5A (13.3 VDC 0.5A Batt. Charge)	100-240 VAC 2.5 A 50/60Hz	Power Dist. Board, Tamper Switch, LED Status	12Ah Sealed Lead	18" x 16" x 5" (45.7 x 40.6 x 12.7 cm)
AUS-1204		13.8 VDC 3.8A (13.3 VDC 0.3A Batt. Charge)	100-240 VAC 1.6 A 50/60Hz	Power Dist. Board, Tamper Switch, LED Status	12Ah Sealed Lead	13" x 13" x 4.5" (33.02 x 33.02 x 11.43 cm)

APOLLO TOTAL SYSTEM SOLUTION

Apollo not only manufactures access control and alarm products, but also provides an extensive line of complementary security and integration products. The Product Guide contains only a sample of the complete line of accessories we supply. Contact your Apollo sales representative for information and pricing on locks, request to exit devices, additional biometric readers, wireless communications, redundant servers and other products.

A major advantage of sourcing complete systems from Apollo is that they are tested by Apollo personnel for compatibility with Apollo systems. Apollo support personnel can provide guidance with the installation and support of products purchased from Apollo.

SENSORS

Environmental and industrial sensors for integration into Apollo systems via APACS OPC interface.
Monitor server rooms, manufacturing and other areas and control ACS devices in response.

MODEL		TYPE	SENSOR	FEATURES	POWER	DIMENSIONS
iTHX-SD NEWPORT		Temperature, Humidity, Dewpoint	Standard Wand Probe (8in/20.3cm)	Web Server, 2 Relay Outputs, Virtual Chart Recorder	9-12 VDC @ 200mA	10.6 x 3.25 x 1.4 in (27 x 8.3 x 3.6 cm) (w/ probe)
iSD-TC NEWPORT		Temperature, Analog Sensor	(2) Type K Thermocouples (36in/1m)	Web Server, 2 Relay Outputs, Virtual Chart Recorder	9-12 VDC @ 200mA	5.1 x 3.4 x 1.3 in (13 x 8.8 x 3.3 cm) (chassis only)
iBTX-W NEWPORT		Barometric Pressure, Temperature	Standard Wand Probe (6in/15.2cm)	Web Server, 2 Relay Outputs, Virtual Chart Recorder	9-12 VDC @ 200mA	10.6 x 3.25 x 1.4 in (27 x 8.3 x 3.6 cm) (w/ probe)

SYSTEM SOFTWARE

Enterprise level Access Control and Alarm Monitoring software with a robust feature set suitable for the most security critical sites in the world.

MODEL

APACS PRO

APACS Pro comprises an advanced security management software package. Integrates access control with digital and analog video equipment, visitor management systems, HVAC and lighting control systems, public address and paging systems. APACS Pro's Reaction mechanism provides a powerful programming interface for unlimited integration possibilities. Includes all features of APACS Standard.

- DVR/CCTV Control
- HVAC & Building Control (via OPC)
- Reaction/Message Mask Mechanism for advanced software control of hardware and software
- Customized graphic maps with custom icon feature to display actual hardware status
- Per-operator system access rights for restriction of monitoring/ control to only desired system segments

- Live Video Verification
- Unlimited system access levels (255 per controller)
- Unlimited Client and Hardware support
- Cardholder templates for easy cardholder enrollment.
- Assign access levels automatically by cardholder group
- 38 Access Levels per card / 8 card formats per device

APACS STANDARD

Full featured system control with the capability of displaying events and state of hardware on interactive graphical maps at the guard station. For easy card issuing, full featured badge design and magnetic card encoding.

- Advanced badge designer with dual side printing
- Powerful image processing for automatic resizing and color adjustments
- Central biometric template storage. Smart template distribution. Concurrent multiple template types
- Advanced Anti-Passback support with nested areas, occupancy triggers and manual movement
- Active directory/Windows single sign-on

- Extensive context-sensitive help files in all modules
- Unlock/lock & arm/disarm by schedule, manually or in response to system events
- Intelligent download of cards & access levels to devices for maximum memory efficiency
- Support for turnstiles, man traps, lockout doors and monitored door bolts
- Supported Languages: English, Spanish, French,
- Portuguese, Hebrew, Chinese, Arabic, Polish, Turkish

APACS M32

Full featured version of APACS Professional limited to a maximum of 32 devices. Ideal for smaller systems that need enterprise features at a lower price point. Installations can be easily upgraded to unlimited hardware support with purchase of a full version license.
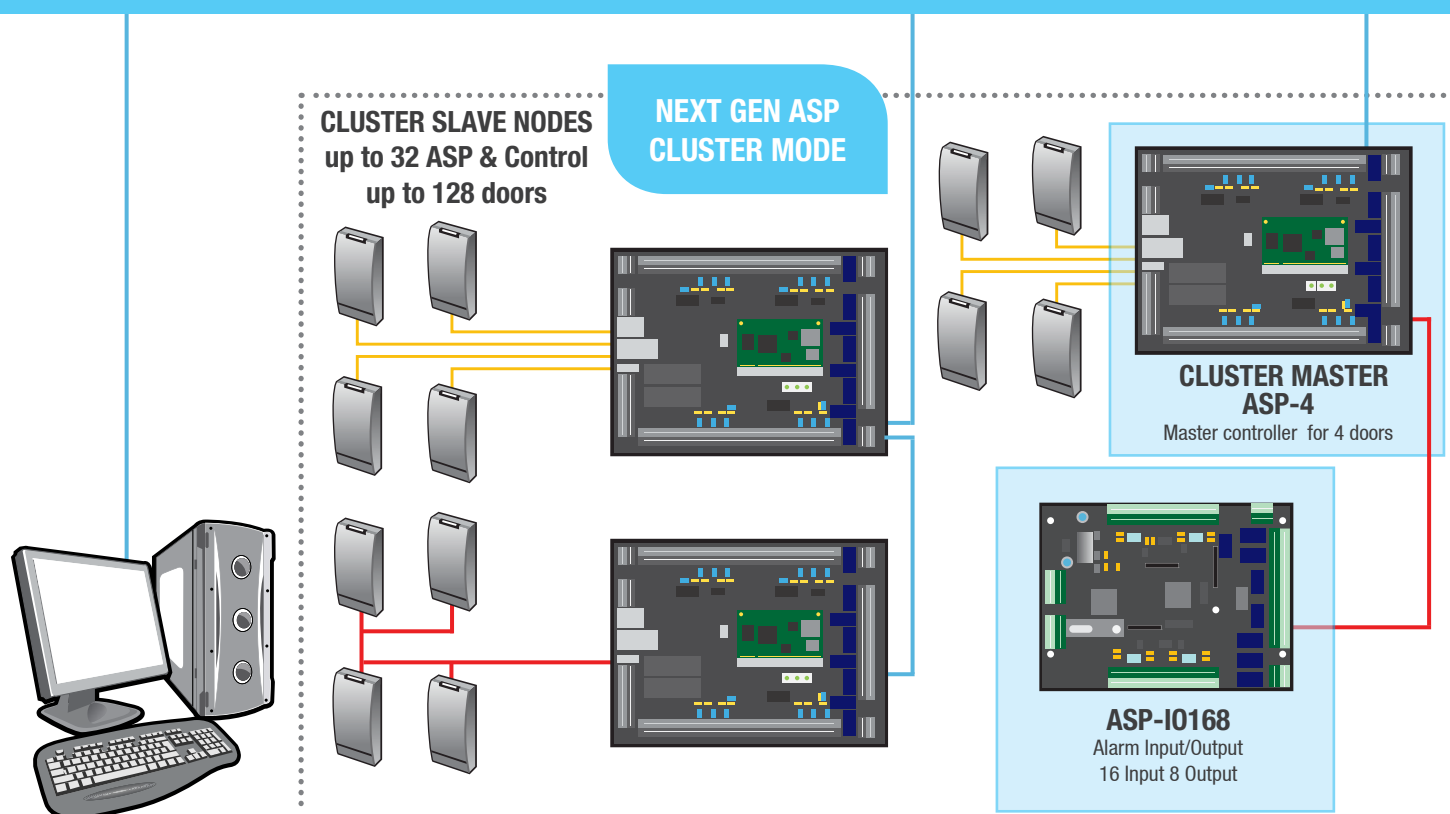
APACS - CORE FEATURES

LINKAGES

APACS offers multiple mechanisms for IF...THEN programming for custom actions to extend the functionality of the Access Control System. Hardware embedded functions can provide fast, reliable control, arming/ disarming and annunciation during normal operation as well as when communication is degraded. Software based features can send emails during system alarm events, control external programs and prompt operators for desired actions based upon system state and alarm conditions.

BADGING

A full featured badge design editor allows multiple graphic layouts for user badges with easy dual side printing and card encoding. Images to be printed can be imported or made from scratch using the powerful WYSIWYG editor. Cardholder images and personal information are taken directly from the database for inclusion on the printed badge. Designs can be automatically assigned based on a cardholder's group.

ANTI-PASSBACK

Abuse of card policies can be prevented by flexible anti-passback rules that prevent multiple users gaining access with a single card. Access may be denied or an alert sent to guard stations in order to take proper action. Location of cardholder can be monitored live as they move between areas and areas can be locked for safety or security reasons. Area occupancy can automatically control areas based on min/max persons.

VISITOR MANAGEMENT

Manage flow of temporary cardholders and contractors on-site with simple enrollment directly through the APACS application or via a web interface allowing all users in an organization to submit visitors and appointments. Track visitors on-site, quickly identifying location and violators of allowed visit duration. Advanced escort rules allow access only when accompanied by a designated employee or guard.

GUARD TOUR

Utilize existing ACS hardware for a full featured guard tour system without the need to purchase additional equipment. Progress of guards on prescribed rounds can be tracked by using readers and alarm inputs. Failure of guard tours can be programmed to automatically notify supervisors or sound system alarms.

APACS - OPTIONS

Special use features for seamless integration of devices into APACS.
Created a custom Integrated Security System based on a robust, proven platform.

UNIVERSAL VIDEO

APACS Universal Video Interface integrates video recorders from multiple vendors in a common program interface. Combined with APACS messaging, video events bring an extra dimension to tracking history by retrieving associated video with just a mouse click. After the fact reporting links video with alarm and access events for easy investigations. Operators get easy access to live views from map icons and automated pop up windows during important events. All this can be combined with a wide choice of DVRs, NVRs and IP Cameras for a truly flexible system. Supports Samsung, Salient, Samsung, Panasonic, Bosch, Pelco, Hikvision, Verint, Vicon, Milestone, Avigilon, Infinova, FLIR and Wavestore.

OPC CLIENT

APACS OPC Client features connect to process and control systems with integrated monitoring and control of the entire site in one place with a customizable easy to use interface. Monitor OPC Servers to get constantly updated information on all types of devices including HVAC, lighting, pumps, power meters and more. See alarms and messages in APACS with OPC Alarm & Events or customize your own alarm thresholds for Data Access items and events will be automatically generated. Control devices on your OPC network by easily writing tag values. Associate control tags with any OPC item and define automatic reactions in response to events. Paired with gateway software, BACnet, Modbus, LonWorks, SNMP, KNX and more are possible.

BIOMETRIC TEMPLATES

APACS Biometric Extensions make handling advanced credentials easy by seamlessly integrating biometric enrollment into the card management interface your users are already familiar with. Configurable options for all functions means easy installation of biometric enrollment readers and quick setup of access readers. Save memory and enhance security by downloading templates only to readers where an access level allows a user to enter. Support for multiple template types concurrently including Suprema, Idemia MorphoAccess and Schlage hand geometry. Using standard OSDP protocol, templates can be stored on ASP Series Controllers.

ETHERNET

CLUSTER SLAVE NODES
up to 32 ASP & Control
up to 128 doors

NEXT GEN ASP CLUSTER MODE

CLUSTER MASTER ASP-4
Master controller for 4 doors

ASP-IO168
Alarm Input/Output
16 Input 8 Output

ASP SERIES - NETWORK CLUSTERING CONTROLLER

The New ASP Series of controllers from Apollo represents a leap beyond traditional Access Control and Alarm Monitoring by providing a multi-functional device that can provide diverse functions as well as advanced door control features.

Using standard IT LAN/WAN connections to create a cohesive, autonomous entity that manages access and security for an entire building, the ASP-4 can be clustered with up to 31 other ASPs to support an industry-leading 128 doors in a single management unit. This has the advantage of faster more dependable inter-device commands as well as ability to continue normal operation in case of loss of communication on parts of the network. Post-factory customization of functions and integrations is also possible.

www.apollo-security.com

Apollo Headquarters
3610 Birch Street
Newport Beach, CA
92660-2619, USA
Tel. +1 949 852 8178
Fax. +1 949 852 8172
apollo@apollo-security.com

Apollo Asia Pacific
25 Bukit Batok Crescent
#04-10, The Elitist
Singapore 658066
Tel. +65 6465 9918
richard@apollo-security.com.sg

Apollo Europe
Cukrovarnicka 63
Prague 6, 162 00
Czech Republic
Tel. +420 233 344 972
europe_sales@apollo-security.com

Apollo Middle East & Africa
Tel. +1 949 891 1080
mea_sales@apollo-security.com

Apollo Brazil
Rua Goiás, 70
Sao Paulo - Barueri 06440-170
Tel. +55 (11) 4195 5975
craveiroc@apollo-security.com