

**RS2 TECHNOLOGIES RESPONSE TO  
NEWPORT MESA UNIFIED SCHOOL DISTRICT  
REQUEST FOR INFORMATION (RFI) #104-21**

**INSTALL AND IMPLEMENTATION OF A  
DISTRICTWIDE INTEGRATED SECURITY SYSTEM**

**SUBMITTED BY**



**DATE OF SUBMISSION: APRIL 5, 2021**

**RS2 Technologies  
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**April 5, 2021**

**STATEMENT OF CERTIFICATION**

To whom it may Concern,

Please accept the following information provided in the RFI Response #104-21 for Newport-Mesa Unified School District to be accurate and correct.

Feel free to contact us with any questions or to receive additional information

Best regards,

A handwritten signature in black ink, appearing to read 'Jeff Bransfield'.

**Jeff Bransfield**

**Vice President Sales**

**RS2 Technologies**



## **RS2 EXECUTIVE SUMMARY**

### **NEWPORT MESA USD RFI #104-21**

RS2 Technologies is a leading developer of security management software. We utilize powerful, intuitive, friendly software with industry-proven open architecture hardware.

RS2 has been a leader in the design and development of security management systems for 23 years. We are a wholly owned company of ACRE LLC.

The ACRE brand combines the power of multiple product solutions operating in a number of enterprise markets to deliver disruptive technologies and services across the globe. The leadership position ACRE embodies in the innovative technology marketplace enables it to seek new opportunities that drive continued and sustained growth while strengthening momentum for future endeavors.

RS2 is a rapidly growing company in the industry, leading the market with our software, Access It! Universal.NET. We continue rapid growth with over 1,500 new systems each year, and over 16,000 Access It! Universal.NET system sold throughout the world.

The independent nature of RS2 makes us far more responsive to the needs of our Customers, including constant updates of our products and new integrations to meet the ever-changing challenges of security and management.

We are proud to state that the majority of Dealers and End-Users that started with us in 1998 are still updating, expanding, and benefiting from their investment with RS2 and Access It! Universal.NET

Open Architecture is key to the Access It! Universal.NET offering. Open Architecture keeps us at our best game with respect to:

- Software Development
- Technical Support
- Integration Development
- Most importantly, Pricing on both our software and hardware
- No proprietary software, database or hardware!

## WHY CHOOSE RS2 TECHNOLOGIES

Why should you choose an access control solution from RS2 Technologies?

There are dozens of reasons, but they can be grouped into a handful of key categories:

- The lowest cost of acquisition & the lowest Total Cost of Ownership (TCO)
- A scalable, open-platform solution
- Industry-proven Authentic Mercury™ hardware
- Powerful, user-friendly software
- Outstanding U.S.-based technical & customer support
- Experienced, technically-competent dealers & integrators
- Thousands of successful installations in the U.S. and around the world in almost every industry & market

### Lowest Cost of Acquisition & Ownership

- No “reader license” charges
- RS2 trains & certifies integrators, reducing integrators’ and customers’ expense
- Most competitors’ add-on features are standard in RS2 software
- Customers receive full credit for the previous level of software purchased as their system grows, protecting their investment
- RS2 **does not** have “Software Maintenance Agreements”
- RS2 offers Version Upgrades at a lower cost

### Open Platform Solutions

- RS2 uses only Authentic Mercury™ open-platform hardware
- RS2 is one of only four Mercury Platinum Elite Partners in the world
- RS2’s open-platform solutions facilitate:
  - > Ease of installation
  - > Ease of scalability & multi-national application
  - > Ease of integration
- RS2 integrates to most video, CCTV, intercom, visitor management, intrusion detection & other systems
- RS2 open-platform solutions are compatible with the full spectrum of card technologies

### Broad Application Experience

- RS2 access control solutions have been installed across the U.S. and around the world.
- RS installations can be found in educational institutions ranging from small (*Anderson University, Valparaiso University*) to very large (*University of Pittsburgh, Purdue University, University of Texas, George Mason University, and many others*).
- In the healthcare arena, RS2 solutions are installed in hospitals from Chicago’s Loyola University Medical Center to California’s Mercy Medical Center to the Palm Beach County Health Department in Florida.
- In the Financial & Banking and Energy & Utilities markets, RS2 users include multinational banks in India and brokerage houses in California, wind farms in Michigan, water treatment facilities in Nebraska, natural gas wells in Texas, and electric utilities everywhere.



## **ADDITIONAL ADVANTAGES TO RS2 TECHNOLOGIES**

- Highly Scalable software with Access It! Universal.NET STANDARD or ENTERPRISE editions available
- On-Premise or Software as a Service (SaaS) Solutions available to meet the Customers' needs.
- Easy to use GUI, including Thick-Client, Thin-Client, and WEB Client options.
- Data Exchange Utility that support Active Directory integration, along with scheduled imports from various data sources including ODBC, SQL, Microsoft Access, Microsoft Excel, and more.
- Support for RESTful Web API, allowing Users to develop custom integrations to 3<sup>rd</sup>-Party software.
- Best in the industry at integration and support to wireless locksets from Assa Abloy, Allegion, Dormakaba, and Salto.
- Full-Featured Card Tracking, Mustering, and LOCKDOWN capabilities.
- Easy to use Calendar for scheduling special one-time and recurring events.
- Operating Modes (a.k.a. Threat Levels), 8 modes per Site.
- Full integration to LifeSafety Power NetLink Monitoring to allow for battery failure and power supply alarm events in Access It! Universal.NET
- Full integration to Zenitel Stentofon intercom systems
- Full integration to Assa Abloy Traka Key Management systems
- Full video integration to American Dynamics, Avigilon, Bosch, Digital Watchdog, Exacq Technologies, Genetec, Hanwah, HIKVision, March Networks, Milestone, OnSSI, Panasonic, Pelco, Salient Systems, and Video Insight video systems.

## **RS2 K-12 EDUCATION REFERENCES**

RS2 Technologies boasts some of the most comprehensive integrated security systems at the following K-12 Education Facilities:

- |  |                      |
|--|----------------------|
| • Clear Creek ISD                        | Houston, TX          |
| • College Station ISD                    | College Station, TX  |
| • New Caney ISD                          | Houston, TX          |
| • Katy ISD                               | Katy, TX             |
| • Leon County Schools                    | Tallahassee, FL      |
| • Ankeny ISD                             | Ankeny, IA           |
| • Paradise Valley USD                    | Phoenix, AZ          |
| • Granada Hills Charter Schools          | Granada Hills, CA    |
| • Colorado School for the Deaf and Blind | Colorado Springs, CO |
| • Mesa County Valley School District     | Grand Junction, CO   |
| • Yuma School District One               | Yuma, AZ             |
| • Tolleson Elementary School District    | Tolleson, AZ         |
| • Aspen Academy                          | Aspen, CO            |



## **RS2 SOLUTION NARRATIVE**

### **NEWPORT MESA USD RFI #104-21**

The Access It! Universal.NET platform with standard hardwired readers consists of several major components:

- SERVER (Either On-Premise or SaaS) WITH ACCESS IT! UNIVERSAL.NET VERSION 8 SOFTWARE
- CLIENT WORKSTATIONS (Either Thick Client, Thin Client or Web Client)
- MERCURY SYSTEM CONTROL PANELS (SCP'S)
- MERCURY SUB-CONTROLLERS; DOOR AND INPUT/OUTPUT PANELS (SIO)
- CARD READERS AND PERIPHERAL DOOR DEVICES (DOOR CONTACTS, REQUEST-TO-EXIT DEVICES, ELECTRIC DOOR LOCKS)

The following is a synopsis of each of the major components for a hardwired reader system:

- SERVER
  - On-Premise: If an On-Premise option is selected the server would consist of the following system requirements:
    - Supported Server Operating Systems
      - Windows 8 Professional
      - Windows 8 Enterprise
      - Windows 8.1 Professional
      - Windows 8.1 Enterprise
      - Windows 10 Professional
      - Windows 10 Enterprise
      - Windows Server 2012 Standard
      - Windows Server 2012 Datacenter
      - Windows Server 2012 R2 Standard
      - Windows Server 2012 R2 Datacenter
      - Windows Server 2016 Standard
      - Windows Server 2016 Datacenter
      - Windows Server 2019
    - Virtualization Platforms
      - The virtualization layer is transparent to the Access It! Universal.NET software. As long as one of the above Operating Systems is capable of running on the virtualization software, Access It! Universal.NET is supported.
      - Access It! Universal.NET virtual key (SOFT key)
    - Supported Database Engines

- SQL Server 2019 Express, Standard or Enterprise Editions
  - SQL Server 2017 Express, Standard or Enterprise Editions  
**Included with Access It! Universal.NET CD-ROM.**
  - SQL Server 2016 Express, Standard or Enterprise Editions
  - SQL Server 2014 Express, Standard or Enterprise Editions
  - SQL Server 2012 Express, Standard or Enterprise Editions
- Recommended Server Requirements
  - Processor Type: Intel Xeon, AMD Opteron, or greater
  - Processor Speed: 2.6 GHz Processor or faster
  - 16GB of RAM or more (64-bit OS)
  - 500GB Free Hard Drive Space or more
  - TCP/IP Server/Client Connectivity
  - 1 USB Port (USB Dongle)
- Software as a Service (SaaS): If a SaaS option is selected, the following attributes would apply
  - Dedicated Server Deployment: RS2 SaaS will be deployed through our hosting partner's, Hostwinds, data center environment. Newport Mesa USD will have a dedicated server for their application. The server will be designed and specified to exceed the needs of the district, and provide "room to grow" as required.
  - Costs will be monthly and based on the number of system control processors (SCP's), number of concurrent clients, and software options.
  - Service includes high availability, disaster recovery, ongoing maintenance, and software upgrades
  - Network Security: Hostwinds facilities are SAS Type II, audited, Tier 4 Data Centers. ISO9001, SOC 2 Type II, SOC 3, PCI-DSS and HIPPA compliant. Data centers have secured entrance 24/7 with EAC and video surveillance with documented ingress and egress data.
  - Web client is standard, thick client option is available for more complex functionality.
- CLIENT WORKSTATION
  - Thick Client: Access It! Universal.NET is loaded onto a PC
    - Recommended Client PC Requirements:
      - Processor Type: Intel Core i3, AMD Phenom II x4, or greater
      - Processor Speed: 2.6 GHz Processor or faster
      - 4GB of RAM (32-bit OS), 8GB of RAM or more (64-bit OS)
      - 20GB Free Hard Drive Space
      - TCP/IP Client/Server Connectivity
      - Windows 10 Professional or Enterprise
  - Thin Client: Simple, easy-to-deploy and easy-to-support, utilizing Windows Terminal Server or Citrix Metaframe Servers to provide access without requiring client software.
    - Windows Terminal Server support
    - Citrix Metafram Server support
    - Concurrent client licensing model
    - Single, central point for software installation and upgrades
    - Easy software version synchronization and compliance
    - Lowers bandwidth requirements
    - Full client functionality

- Highly secure client connections
  - Web Client (Option): Built on modern web technology. Allows for secure control of your system from all modern browsers. Control the system from a desktop, laptop, tablet, or phone.
    - Built on the .NET framework and uses Internet Information Systems (ISS) as the web server.
    - Supports SSL encryption to ensure data remains secure at all times.
    - Operates the same way as the thick client, making it easy to use.
    - Light and dark colored themes
- Access It! Universal.NET Software: The Access It! line of software is the industry's most advanced, easy-to-use access control software. The software is scalable and offers the lowest cost of acquisition, and the lowest cost of ownership.
  - Two Editions of Access It! Universal.NET
    - Standard Edition
    - Enterprise Edition
      - All features of Standard Edition plus
        - Database Partitioning with unlimited "Sites"
        - More granular User Group permissions
        - Capable of multiple Regional Servers with Database Replication
  - Software Options Available
    - Video Integration (by Client)
    - Zenitel Stentofon Intercom Integration (by Client)
    - Data Exchange: Interactive package allows integration to Active Directory and multiple external data sources on a regularly scheduled basis
    - Photo ID Badging: Enables capturing photos, design, and printing of ID badges
    - Biometric Integration: Enables integration of supported biometric readers to allow biometric template enrollment for Access It! Universal.NET
    - IP Locks: Enables functionality of Assa Abloy IP-enabled Locks (WiFi and PoE locks)
    - Encoding: Smart Card Encoding Option
    - Import/Export: Basic Import/Export and bulk update of cardholders and cards
    - Time and Attendance: Enables time and attendance function for card readers and T&A reports
    - Notification: Enables emailing and/or texting of alarms, events, and reports
    - WEB option: Enables use of Web clients as previously described
    - Custom Reporting: Allows user customization of reports
    - Burglar Alarm Panel integration: Enables network integration to supported burglar alarm panels for monitoring
    - API: RESTful Web API for integration to 3<sup>rd</sup>-party software
- MERCURY SECURITY PANELS: Mercury Security by HID is the largest manufacturer of Open Architecture access control hardware in the U.S. Approximately 27 companies

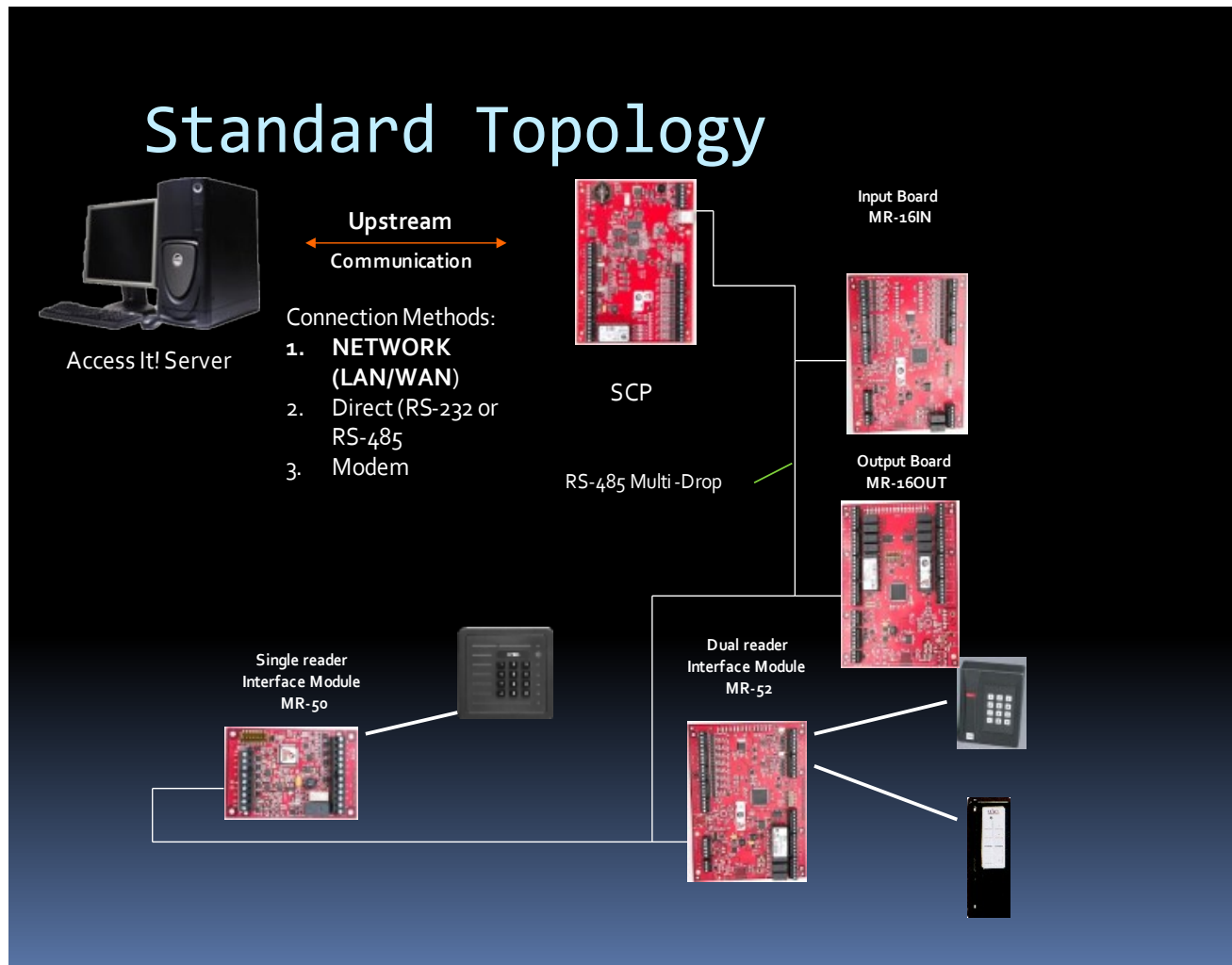
code their software to the Mercury hardware platform, ensuring you protect your investment and future-proof your system. RS2 Technologies is one of 7 Mercury Platinum Elite partners.

- Mercury System Control Panels (SCPs): The SCP is the “brains” of the access control system. The SCPs contain the full Access It! database and make the access control decisions autonomously without the need to be connected to the Server. The SCP’s include these following features:
  - Built on the secure Linux Embedded platform
  - Support for up to 64 card readers
  - Card capacity up to 2,000,000 cards
  - Native hardware and software integrations
  - Supports up to 1024 inputs and 1024 outputs
  - Flash firmware capability for easy field upgrades
  - Support for up to 16 different card formats/technologies
  - PIV-II, CAC, and TWIC card compatible
  - UL 294, FCC Part 15 Class A
  - AES 256-bit NIST Certified Encryption
  - Variety of SCP’s including:
    - LP-1501
      - IP-based Controller
      - Standalone “Edge” board controlling a single door
      - Supports PoE+ for power to panel, readers, locks and ancillary devices
      - Can be configured to allow downstream RS-485 communication to control 17 total doors
    - LP-1502
      - IP-based Control Processor
      - On-Board SIO for 2-door direct connection
      - Controls up to 64 doors
      - Supports 32 addressable reader, input, or output SIO subpanels via one RS-485 port
      - 240,000 card capacity
      - Communicates to Server via 10/100 Ethernet with support for IPV4 and IPV6
      - 50,000 Transaction Buffer
    - LP-2500
      - IP-based Control Processor
      - Controls up to 64 doors
      - Supports 32 addressable reader, input, or output SIO subpanels via two RS-485 ports
      - 600,000 card capacity
      - Communicates to Server via 10/100 Ethernet with support for IPV4 and IPV6
      - 50,000 Transaction Buffer
    - LP-4502
      - IP-based Control Processor
      - On-Board SIO for 2-door direct connection
      - Controls up to 64 doors

- Supports 32 addressable reader, input, or output SIO subpanels via one RS-485 port
  - 2,000,000 card capacity
  - Communicates to Server via 10/100 Ethernet with support for IPV4 and IPV6
  - 50,000 Transaction Buffer
  - Specialized functionality including PIV-Class and elevator Destination Dispatch integration.
- Mercury System Subpanels (SIOs): The Mercury SIO panels are subpanels to the SCPs that include reader boards, input boards, and output boards. The SIOs communicate to the SCP's typically through an RS-485 multidrop protocol, or through TCP/IP network connection. All SIOs are UL294 and can utilize AES encryption for the data to and from the SCP. Here are the different styles of SIO boards available:
  - MR-50-S3
    - Controls 1 door with all needed I/O (Door contact and REX inputs, and electric lock relay output)
    - Single Door 2-reader IN/OUT configuration using OSDP communication
    - One programmable auxiliary output
    - Reader communication support for Wiegand protocol and OSDP 2 with Secure Channel encryption
  - MR-52-S3
    - Controls 2 doors with all needed I/O
    - 2-reader IN/OUT door configuration on a single reader port using OSDP communication
    - Four (4) auxiliary inputs and four (4) auxiliary outputs
    - Reader communication support for Wiegand protocol and OSDP 2 with Secure Channel encryption
  - MR-62e
    - Controls up to 2 doors with all needed I/O
    - IP-based communications to SCP
    - Supports PoE and PoE+
    - Two (2) auxiliary inputs and two (2) auxiliary outputs
    - Supports OSDP reader protocol only; no Wiegand
  - MR-16IN-S3
    - 16 programmable auxiliary inputs
    - 2 Form-C Relays
    - 2 dedicated tamper and power monitor inputs
    - Programmable supervised end-of-line resistance values
  - MR-16OUT-S3
    - 16 Form-C Relays
    - 2 dedicated tamper and power monitor inputs
    - Basic elevator control capabilities

- CARD READERS & CARDS: RS2 Technologies offers a variety of access control card readers and credentials by multiple manufacturers, including:
  - AWID
    - Proximity
    - Smart Card
  - Farpointe Data
    - Proximity
    - Smart Card
    - Specialized Gate Receivers/Transmitters
    - Mobile Credentials
  - HID
    - Proximity
    - iClass
    - Signo
    - SEOS
    - Multi-Class
    - Mobile Credentials
  - Schlage
    - Proximity
    - Smart Card
    - Multi-Class
    - Mobile Credentials
  - Telaeris XPressEntry Wireless Mobile Access Readers
  - WaveLynx
    - Proximity
    - Smart Readers (MiFare)
    - LEAF
    - Multi-Class
    - FREE Mobile Credentials (RS2 ACT ID)

The following is a typical standard topology diagram for an RS2 Technologies hardwired reader system:



## WIRELESS LOCK INTEGRATION OPTIONS

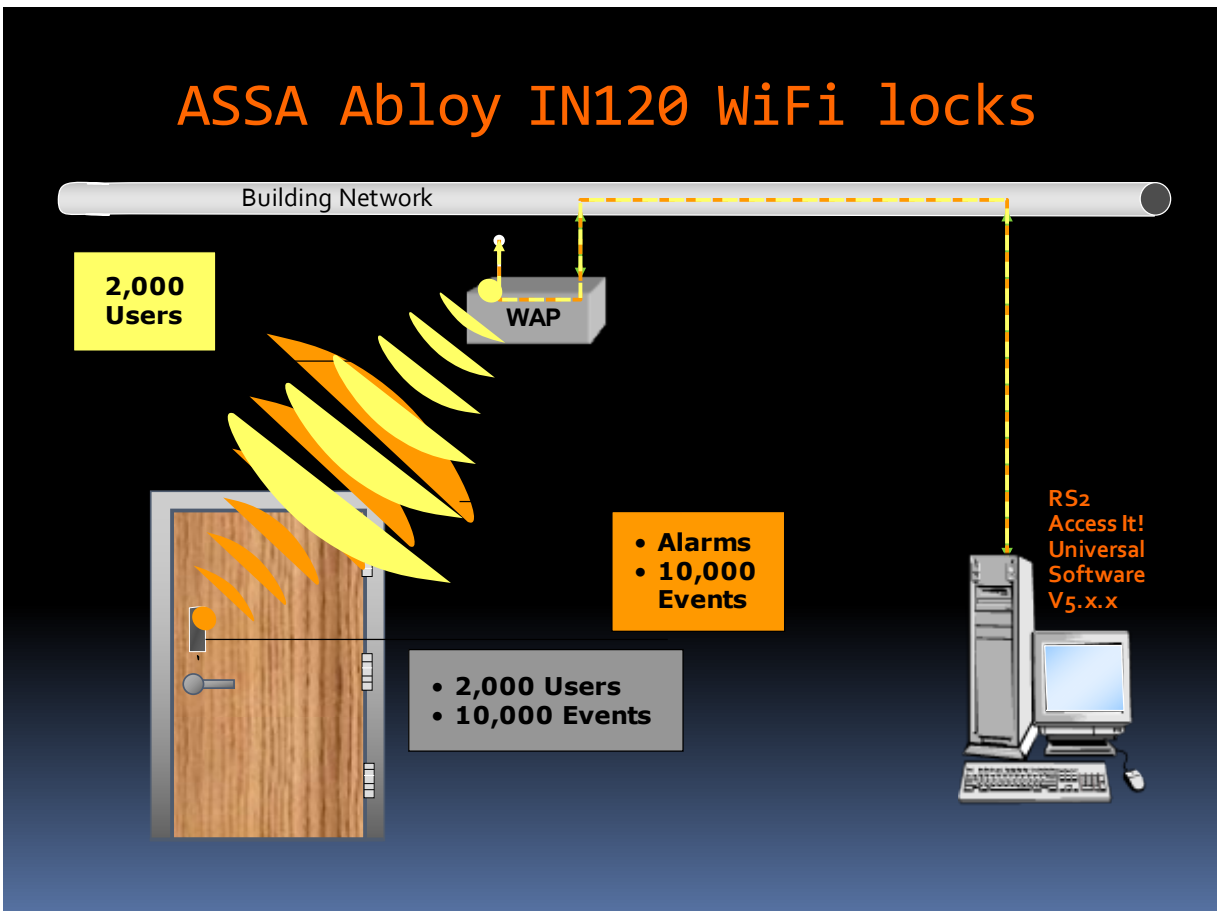
RS2 Technologies integrates with the top manufacturers of integrated wireless locks, including Assa Abloy, Allegion, Best (by Dormakaba) and Salto. The following details options with the most popular of these applications in a K-12 school environment:

- **ASSA ABLOY IP WiFi LOCKSETS**
  - **Competitive Advantages**
    - Significant Reduction in Hardware Costs
    - Significant Reduction in Labor Costs
    - Easy Installation in Hard-to-Wire Locations
    - Takes advantage of existing infrastructure
    - No need to travel to the door to update database or retrieve historical information



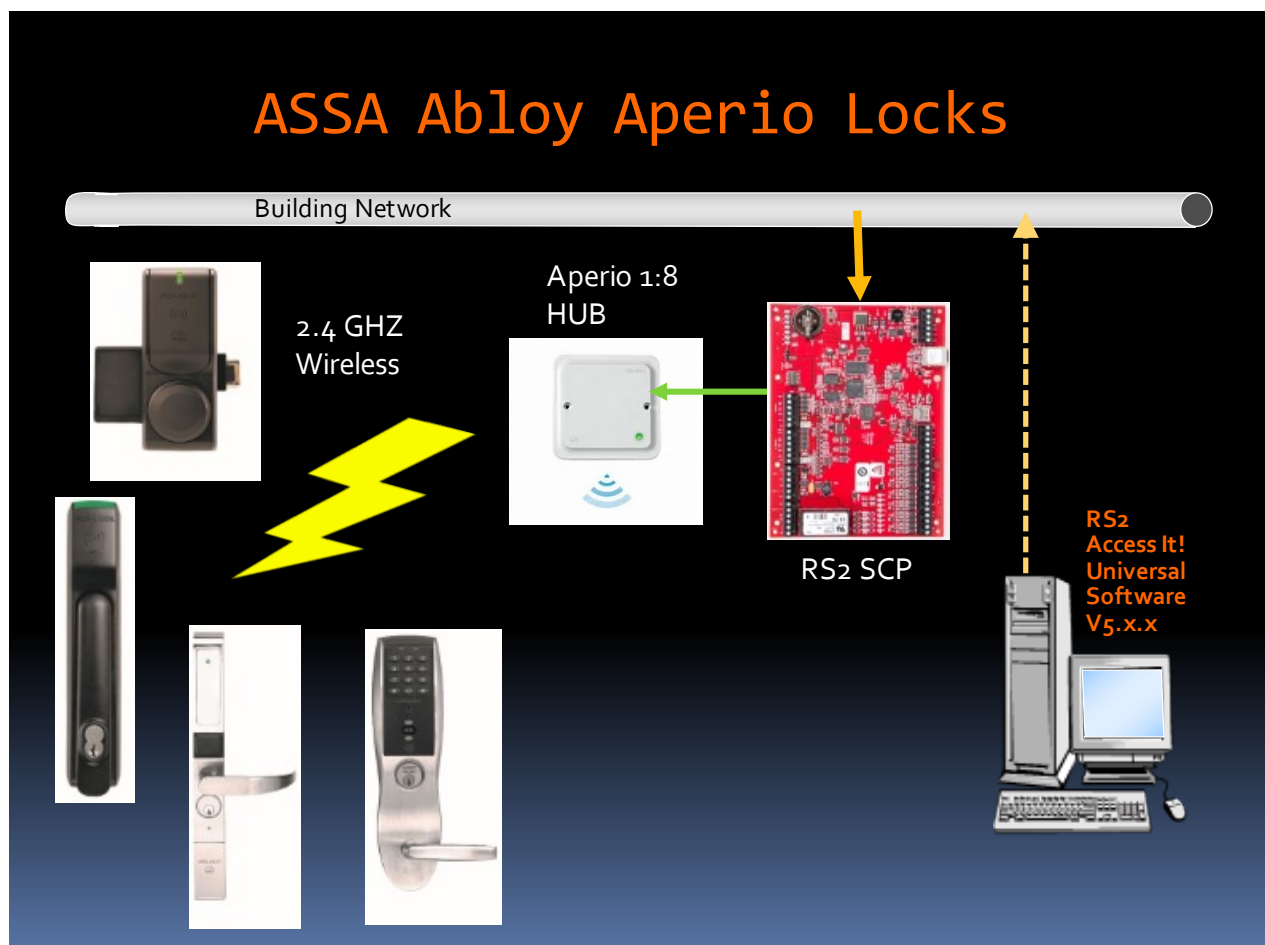
- Best Practices
  - Have IP system-wide Option enabled on Access It! Universal.NET
  - Purchase WiFi IP locksets through the certified RS2 Dealer as lock licenses are included. (License fees apply if not purchased through authorized RS2 Dealer.)
  - Ensure Assa Abloy Drives are properly licensed
  - Contact Host on Access Denied Events
    - Ensure access denied events reported in a timely fashion
    - Process updates to locks for new cards
  - Stagger Lockset Communication Schedules
    - Prevents a WAP from being overloaded and the locks missing a communication schedule
    - RS2 recommends having no more than 125 locks communicating at one time
- Considerations for Assa Abloy WiFi locks
  - More lock “Awake” time means less battery life...plan accordingly and schedule routine maintenance for battery replacement.
  - NOT meant for doors needing round-the-clock real-time updates and commands, including lockdowns.

The following is a typical standard topology for RS2 Technologies integrated with Assa Abloy WiFi wireless locks



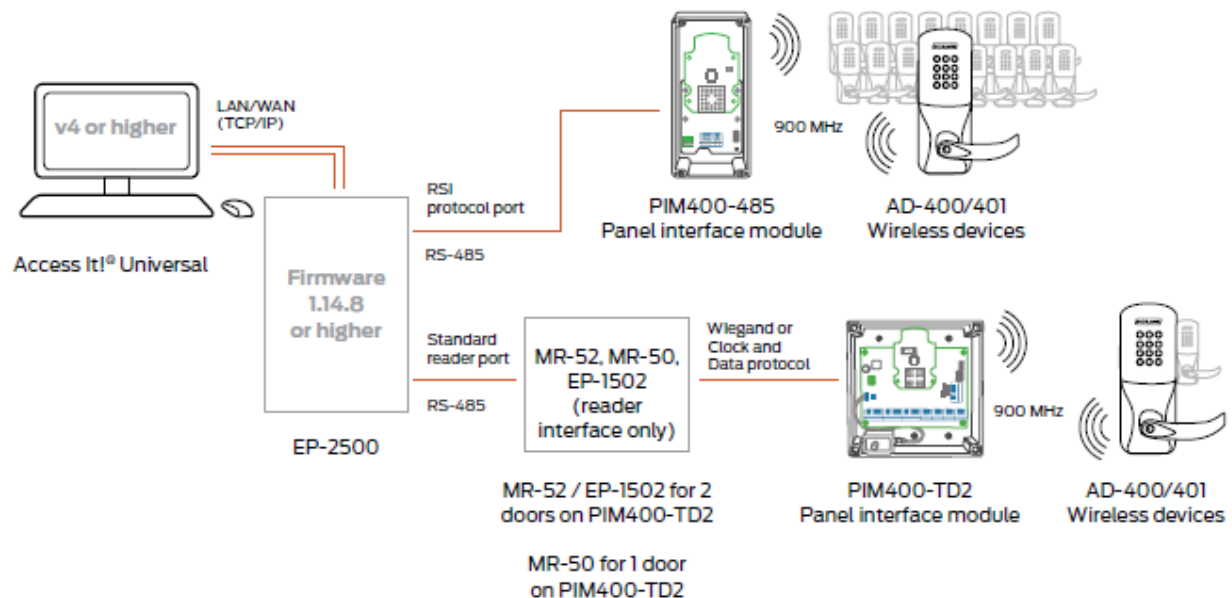
- ASSA ABLOY APERIO WIRELESS LOCKSETS
  - Assa Abloy Aperio technology utilizes local wireless communication between the lock and a communications hub to connect to the RS2 SCP and Access It! software
  - Competitive Advantages
    - Significant Reduction in Hardware Costs
      - Large variety of Aperio lock models for numerous applications
    - Significant Reduction in Labor Costs
    - Easy Installation in Hard-to-Wire Locations
  - Considerations for Assa Abloy Aperio wireless locks
    - Licensing same as WiFi locks (no drivers needed)
    - HUB devices utilize 2.4GHz Wireless with approximately a 50-foot range
    - Supports more reader modes than WiFi
    - Supports near real-time commands

The following is a typical standard topology for RS2 Technologies integrated with Assa Abloy Aperio wireless locks



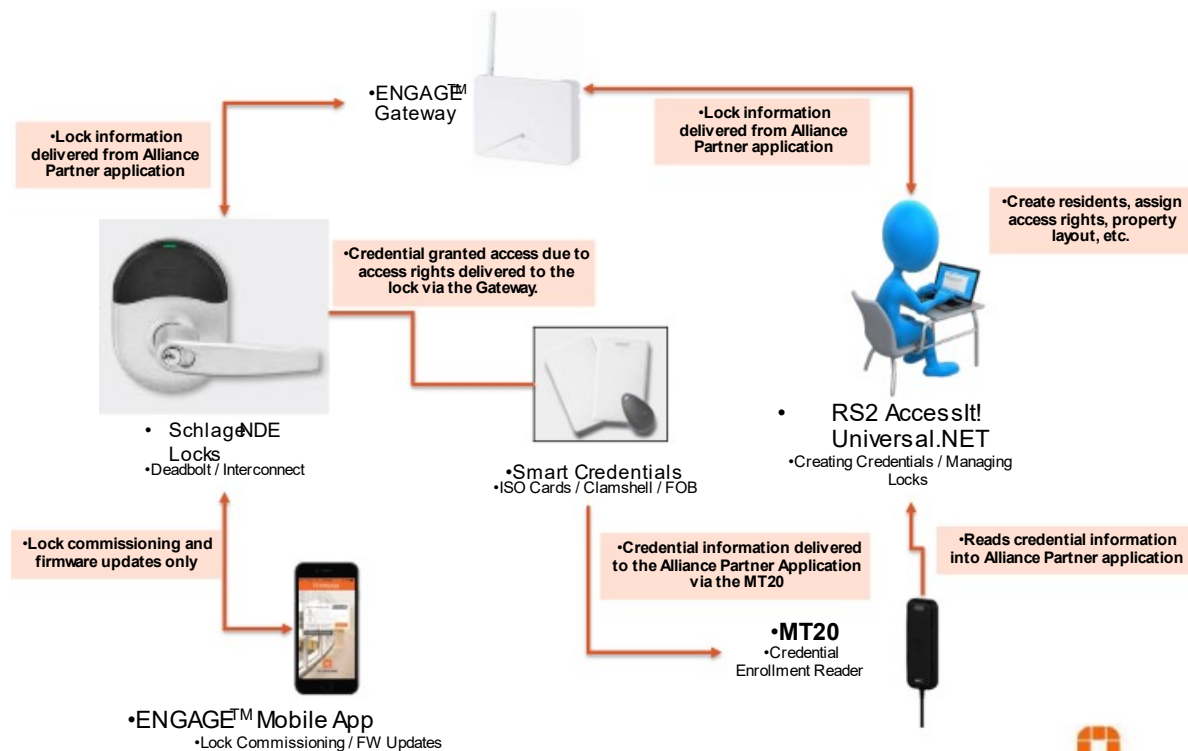
- ALLEGION SCHLAGE AD-400 WIRELESS LOCKS
  - Secure 900MHz wireless communication between AD-400 Lock and Panel Interface Module (PIM400)
  - Each PIM400 supports up to 16 locks with a 250 foot wireless radius
  - Multiple Functions available, including:
    - Classroom/storeroom
    - Office
    - Privacy
    - Apartment
  - Real-time commands including lockdown
  - Door position, Mechanical key override, and deadbolt position monitoring
  - Available in multiple lock types, styles and finishes
  - Interior push button for classroom lockdown function
  - Integrated reader reads multiple brands of both proximity and smart card.
  - Available with integrated keypad

The following is a typical standard topology for RS2 Technologies integrated with Allegion Schlage AD-400 wireless locks:



- Secure BLE (Bluetooth) wireless communication between NDE Lock and Engage Gateway
- Lower cost, no Mercury panel required.
- Each ENGAGE Gateway supports up to 10 locks with a 25-foot wireless radius
- Classroom/Storeroom Function
- Real-time commands including lockdown
- AES Encryption
- Door position monitoring
- Available in multiple styles and finishes
- Interior push button for classroom lockdown function
- Integrated reader reads multiple brands of both proximity and smart card.
- Available with mobile credential capability

**The following is a typical standard topology for RS2 Technologies integrated with Allegion Schlage NDE wireless locks:**



## **ADDITIONAL RS2 TECHNOLOGIES INTEGRATION OPTIONS**

RS2 integrates with many other best-of-breed technologies to create a more “single pane of glass” solution. The following are integrations that are widely used by K-12 education facilities with their RS2 Access It! Universal.NET solution:

- **Video Integration:** RS2 Technologies has COTS solutions for event-driven video integration with many of the industry’s top video management software manufacturers. We will also work with any DVR/NVR manufacturer that will work with us for a custom video integration solution. The following are the manufacturers that Access It! Universal.NET currently had integrations with:
  - American Dynamics
  - Avigilon
  - Bosch
  - Digital Watchdog
  - Exacq Technologies
  - Genetec
  - Hanwah
  - HIKVision
  - March Networks
  - Milestone
  - OnSSI
  - Panasonic
  - Pelco
  - Salient Systems
  - Video Insight
- **Intrusion Detection Integration:** RS2 Technologies provides integration to intrusion panels that allow monitoring of alarms, openings, closings, and events on Access It! Universal.NET alarm and event monitor. Additionally, the integration allows a card reader to arm/disarm specific alarm zones. The following are the intrusion panels that RS2 currently integrates with:
  - Bosch Security Systems
  - DMP (Digital Monitoring Products)
- **Intercom Integration:** RS2 seamlessly integrates to the Stentofon intercom product manufactured by Zenitel
- **Visitor Management:** RS2 resells and integrates to several of the top Visitor Management platforms. The integrations allows synchronization of the database between the Access It! Universal.NET and visitor database. Additionally, it allows active cards to be issues from the Visitor Management system with limited access. The following are Visitor Management manufactures that integrate to the RS2 Access It! Universal.NET system:
  - HID EasyLobby
  - Splan Visitor
  - STOPware
  - SoloInsight
  - Savance

- Traka Key Management by Assa Abloy: RS2 integrates to Traka Key Management and Cabinet devices. This allows brass keys to be dispatched to users based on their access levels in Access It! Universal.NET. Traka also manufactures cabinets and lockers that are fully integrated to RS2
- LifeSafety Power NetLink Monitoring Integration: RS2 seamlessly integrates to power supplies manufactured by LifeSafety Power. This integration allows alarms to be generated by Access It! Universal.NET in the event of a power spike, power dip, or low battery. This will allow the school to be able to proactively anticipate any issues with the critical power systems.
- RESTful Web API: RS2 Technologies provides a powerful RESTful Web API to allow integration to 3<sup>rd</sup> party software and databases. The API can be used for the following purposes:
  - Fetch system data including hardware settings and events
  - Update system data such as reader and card settings
  - Execute commands on hardware such as unlocking a door or executing a lockdown.

## **TRAINING AND SUPPORT OPTIONS FOR NEWPORT-MESA UNIFIED SCHOOL DISTRICT**

- **TRAINING OPTIONS**
  - Training from Authorized RS2 Dealer: All of our authorized Dealers have been thoroughly trained and certified in our Access It! Universal.NET software. As part of the district's RFP requirements, the Dealers can provide Administrative Training to the district to educate on all basic functions and features of the system
  - RS2 Certification Training: For more advanced training the District can send personnel to the RS2 Certification training. This is a 3-day certification class that provides more detail to installing, maintaining, and troubleshooting an RS2 Access It! Universal.NET system. The training will be sponsored by the District authorized RS2 Dealer(s).
- **SUPPORT OPTIONS**
  - System support is typically provided by an RS2 authorized Dealer for routine preventative maintenance and for service. RS2 Tech Support is provided to the Dealer only in this scenario. The district may choose to write in a Service/Maintenance contract as part of the RFP.
  - Direct Support Agreement (DSA): RS2 offers an optional Direct Support Agreement (DSA) that the District may purchase through the authorized RS2 Dealer. The DSA is an annual contract that provides the following:
    - The end user can contact RS2 Tech Support directly, unlimited calls during normal business hours.
    - RS2 will provide all major software upgrades as long as the DSA remains in force (minor software upgrades are available at no cost at all times).
    - Platinum DSA is also available which provides after-hours tech support, and quarterly system checks.

**RS2 TECHNOLOGIES**  
**K-12 DISTRICT REFERENCES**

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**RS2 Budgetary Quote**  
**NEWPORT MESA USD**

Date 5/3/2021  
Quote Number N/A  
Revision: 1

**Valid Until: N/A**

**Project Name: NEWPORT MESA UNIFIED SCHOOL DISTRICT - BUDGET PRICING**

**Customer:** Newport Mesa Unified School District  
2985 Bear Street, Building A  
Costa Mesa, CA 92626

**Quote To:** [Jonathan Geiszler](#)

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**Terms: N/A PRICING FOR BUDGETARY PURPOSES ONLY; NOT FOR RESALE!**

Qty	Part Number	Title	MSRP	MSRP Total
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**ACCESS IT! UNIVERSAL.NET ENTERPRISE SOFTWARE LICENSING**

1	ESSL100-SOFT	Access It! Universal.NET Enterprise Single Server - ESSL100 Software	18,344.00	18,344.00
1	E-CLIENT	Access It! Universal.NET Enterprise Concurrent Client License - <b>Cost Per Client</b>	2,158.00	2,158.00
1	E-DVR-[MFG]	Access It! Universal.NET Enterprise DVR/NVR Interface License - <b>Cost Per Client</b>	2,158.00	2,158.00
1	E-WEB	Access It! Universal.NET Enterprise - WEB Client License	1,079.00	1,079.00
1	E-BADGE	Access It! Universal.NET Enterprise - ID Badging License	2,158.00	2,158.00
1	E-DATAEXCHG	Access It! Universal.NET Enterprise - Data Exchange License - Active Directory Integration	12,950.00	12,950.00
1	E-IMPEXP	Access It! Universal.NET Enterprise- Import/Export/Batch Update Utilities	2,158.00	2,158.00
1	E-IP	Access It! Universal.NET Enterprise - IP Lock Software Interface License	2,158.00	2,158.00
1	E-NOTIFY	Access It! Universal.NET Enterprise - Email/Text Notification License	2,158.00	2,158.00
1	E-REPORT	Access It! Universal.NET Enterprise - Custom Report Designer License	2,158.00	2,158.00

**RS2 HARDWARE - ELEMENTARY SCHOOLS**

1	LP-1502	LP-2500 - Intelligent System Control Processor	1,694.00	1,694.00
4	MR-52-S3	MR-52 - Series 3 Two Portal Four Reader SIO	982.00	3,928.00
1	FPO150/250- 2C82D8PE8M1	16-Door Enclosure with Dual Power for Panels and Locks	1,791.00	1,791.00
9	40NKS-02-000278	HID Signo Smart Profile Card Reader	296.00	2,664.00

**Elementary School Total** \$10,077.00



## RS2 HARDWARE - INTERMEDIATE SCHOOLS

1	LP-1502	LP-2500 - Intelligent System Control Processor	1,694.00	1,694.00
4	MR-52-S3	MR-52 - Series 3 Two Portal Four Reader SIO	982.00	3,928.00
1	FPO150/250- 2C82D8PE8M1	16-Door Enclosure with Dual Power for Panels and Locks	1,791.00	1,791.00
9	40NKS-02-000278	HID Signo Smart Profile Card Reader	296.00	2,664.00
<b>Intermediate School Total</b>				\$10,077.00

## RS2 HARDWARE - HIGH SCHOOLS

2	LP-1502	LP-2500 - Intelligent System Control Processor	1,694.00	3,388.00
12	MR-52-S3	MR-52 - Series 3 Two Portal Four Reader SIO	982.00	11,784.00
2	FPO150/250- 2C82D8PE8M1	16-Door Enclosure with Dual Power for Panels and Locks	1,791.00	3,582.00
28	40NKS-02-000278	HID Signo Smart Profile Card Reader	296.00	8,288.00
<b>Intermediate School Total</b>				\$27,042.00

## RS2 HARDWARE - CREDENTIALS

1	5006	HID SEOS Smart Card with 8K Bytes Programmed	4.95	4.95
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## DIRECT SUPPORT AGREEMENT OPTIONS

1	DS-ESSL100	Access It! Universal.NET Enterprise - ESSL100 Annual Direct Support Agreement	7,773.00	7,773.00
1	P-DS-ESSL100	Platinum Access It! Universal.NET Enterprise - ESSL100 Annual Direct Support Agreement	13,911.00	13,911.00



## FEATURE SUMMARY

- ★ **HIGH END FUNCTIONALITY**
- ★ **ON-PREM, SaaS, & WEB CLIENT OPTIONS**
- ★ **LOW START-UP COSTS & LOW COST OF OWNERSHIP**
- ★ **IN HOUSE US BASED SUPPORT & DEVELOPMENT**

RS2's Access It! Universal platform brings with it high end functionality that can scale from small to enterprise level systems. Leveraging a high-powered open architecture Access It! Universal can take on any challenge. This reference sheet will help highlight some stand out features and functionality to help you build the ultimate solution.



## Competitive Pricing Advantages

- Software priced by number of controllers not by the reader
- Single door controller doesn't count against controller licensing
- No annual software support fees\*
- Only pay the difference from one level to next as system grows
- Badging is a system wide-option
- Camera integration by workstations, not number of cameras
- No DSR needed for Wifi/POE locks

## Card Options

- 128 Access levels per card
- Date based options
- Card use limit modifier
- Large card numbers supported
- Temporary access levels
- Card issue levels
- Temporary card activate/deactivate
- Antipassback tools, with exempt options
- Card groups
- Extended access time (ADA)
- Pin number access, with exempt options
- Unused card expiration
- Double card tap to execute virtually any command
- Precision access

## Software Features

- 255 Holidays
- 8 Holiday groups
- 8 operating levels per site  
(configurable to include threat levels, essential workers and more)
- 32,767 access levels per site
- Assign access level to card holder or by individual credentials
- 255 timezones per site
- 12 time intervals per timezone
- Unlimited readers
- Unlimited SCPs

- Unlimited inputs
- Unlimited outputs
- 16 card formats per controller
- Dynamic & interactive site maps
- Prints to any printer supported by the OS
- TWAIN support for picture and signature capture devices
- Unlimited user definable text fields per cardholder
- Tasks - Trigger virtually anything within a controller
- Macros - Trigger tasks and other actions across multiple controllers (e.g. System wide Lockdowns)
- Macro calendar - schedule events to execute by date and time
- Keypad commands
- Standard elevator control

## Monitor Display Options

- Various theme options
- Custom screen layouts
- Multiple monitor support
- Advanced window control

## System Options

- Standard or Enterprise
- Server based or hosted SaaS
- Badging
- Import/Export options
- Data exchange
- Full featured API
- Video integration - most major manufacturers supported
- Intercom integration
- Sites & Companies - segment data by site for cardholders, cards, hardware, and credentials
- Time Clock
- Web Client
- Advanced elevator control (Destination dispatch)
- Notifications - Email

## Third Party Integrations

- Lock integration
  - Schlage AD300, AD400, Engage NDE, LE, Von Duprin RU & RM
  - Assa Abloy IP Wifi, POE, Aperio
  - Doromakaba Best Wi-Q, IDHMax
  - Salto SHIP & Sallis
- Visitor Management Integration
  - Easy Lobby
  - SPLAN
  - CloudGate
  - Savance
  - StopWare
- Life Safety Power Integration
- Destination Dispatch
  - Kone
  - Otis
  - Thyssenkrupp
  - Schindler
- Biometric Integrations
  - Invixium
  - Bioconnect
  - Eyelock
  - ZKteco
  - Anyvision
  - CloudGate
- Multiple Reader Integrations
  - HID
  - Farpointe data
  - Schlage
  - AWID
  - WaveLynx
- Alarm Panel Integration
  - Bosch
  - DMP
  - Inovonics
- Advanced Mustering & Remote Verification
  - Telaeris

## Competitor Conversions

- Mercury board-based systems (no rip & replace)
  - Lenel
  - identicard
  - Maxxess
  - Open Options
  - Avigilon
  - Honeywell
    - WinPak
    - ProWatch
  - Others
- Replace boards, no extra wiring required
  - Software House C-Cure panels
  - Casi Micro5
- Replace controller, keep downstream boards
  - Vertx V1000
  - Vanderbilt
    - VRINX/VIONX-8

## Company Information

- Centrally located - Munster, IN (Chicagoland)
- Mercury Platinum Elite Partners
- Largest in-stock inventory of Mercury panels, with 2 day shipping available
- Top tier technical support (In-House with lowest wait times in the industry)
- Classroom training
- Online training
- Privately Owned by Acre Group
- 20 Years in the business
- Sold via dealer network only

## Other Features

- Multiple enclosure options
- PIV integrations



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#### READY FOR THE FUTURE NOW

- Mobile-ready by default, including Apple's Enhanced Contactless Polling (ECP) to support credentials in Apple Wallet
- Sleek, innovative design to suit modern architecture
- Integrated OSDP for secure authentication and configuration post installation
- Built on a hardware platform designed to be adaptable to support future technology
- Designed to seamlessly integrate into the HID Origo® ecosystem

#### THE SIGNATURE LINE OF READERS FROM HID GLOBAL

- **Highly Versatile** — Support for the widest range of credential technologies, including HID Mobile Access® via native Bluetooth and Near Field Communication (NFC).
- **Unparalleled Performance** — Ultra secure storage of cryptographic keys on certified secure element hardware, plus a new surface detection feature that enables the reader to automatically recalibrate and optimize read range performance.
- **Connected to the Future** — All readers include out-of-the-box support for Open Supervised Device Protocol (OSDP) for secure bidirectional communication.

HID Signo™ is the signature line of physical access control readers from HID Global. The versatility, performance and connected capabilities of HID Signo readers set a new industry benchmark for the most highly adaptable, interoperable and secure approach to electronic access control.

Offering an unparalleled breadth of functionality, HID Signo affords security system installers and administrators a simple and effective approach to secure access control for almost any scenario.

With support for the widest array of credential technologies — past, present and future — HID Signo is the perfect choice for those looking to make the transition to a secure authentication technology.

HID Signo readers transcend the traditional approach to security by being designed to be connected and managed remotely without needing to physically touch each device. This functionality empowers access control systems to dynamically respond as new needs, configurations or threats arise.

#### POWERFULLY SECURE

- Multi-Layered security to ensure data authenticity and privacy
- EAL6+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports iCLASS Elite™ and Corporate 1000 Programs

#### MEET EVERY NEED, ADAPT TO ANY SITUATION

- Go mobile with native Bluetooth and NFC support
- Integrated 125 kHz credential read support for easy migration
- Supports over 15 common credential technologies
- Flush mount terminal block and pigtail wiring options
- Robust outdoor performance with an IP65 rating

#### MANAGE, UPGRADE AND CONFIGURE

- Easily and securely managed using HID Reader Manager®
- Configure via a mobile device or OSDP
- Update firmware in response to threats
- Personalize by configuring audio visual or keypad settings
- Deactivate legacy credential technology to conclude secure migration

## SPECIFICATIONS

HID Signo Reader Model	20	20K	40	40K
2.4 GHz (Bluetooth) Credential Compatibility	Mobile Credentials powered by Seos® (HID Mobile Access)			
13.56 MHz (NFC) Credential Compatibility	Seos, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2, Mobile Credentials powered by Seos (HID Mobile Access)			
125 kHz Credential Compatibility	HID Proximity®, Indala Proximity®, AWID Proximity, and EM Proximity			
Typical Read Range¹	Seos®, MIFARE Classic, MIFARE DESFire EV1/EV2 & ISO14443A Single Technology Cards - 4 to 10 cm (1.6 to 4 in) HID / AWID Proximity®, Indala Proximity®, EM Proximity & 125 kHz Single Technology Cards - 6 to 10 cm (2.4 to 4 in)			
Mounting	Suited for mullion-mount door installations or any flat surface mounting		Suited to mount and cover single gang switch boxes with a slotted mounting plate for alternate back-box spacing	
Color	Black bezel with silver trim baseplate ²			
Keypad	No	Yes (2 x 6 layout)	No	Yes (3 x 4 layout)
Dimensions (width x length x depth)	45 mm x 121.5 mm x 19.5 mm (1.77 in x 4.78 in x 0.77 in)	45 mm x 121.5 mm x 21.5 mm (1.78 in x 4.79 in x 0.85 in)	80 mm x 121.5 mm x 19.5 mm (3.15 in x 4.78 in x 0.77 in)	80 mm x 121.5 mm x 21.5 mm (3.16 in x 4.79 in x 0.85 in)
Product Weight	Pigtail: 95 g (3.35 oz) Terminal: 75 g (2.65 oz)	Pigtail: 110 g (3.88 oz) Terminal: 90 g (3.17 oz)	Pigtail: 140 g (4.94 oz) Terminal: 120 g (4.23 oz)	Pigtail: 160 g (5.64 oz) Terminal: 140 g (4.94 oz)
Operating Voltage	12V DC			
Current Draw³	NSC⁴: 60 mA Peak: 250 mA Max. Avg: 70 mA IPM⁵: 45 mA	NSC⁴: 65 mA Peak: 250 mA Max. Avg: 75 mA IPM⁵: 48 mA	NSC⁴: 65 mA Peak: 250 mA Max. Avg: 75 mA IPM⁵: 45 mA	NSC⁴: 70 mA Peak: 250 mA Max. Avg: 80 mA IPM⁵: 55 mA
Device Input and Output	Input: Tri-color LED, Buzzer, Hold @ Active Low Output: Tamper Relay 0-60V DC @ 100mA Max (Dry Contact)			
Operating Temperature & Humidity	-35° C to +66° C (-31° F to +150° F) 0% to 95% non-condensing			
Storage Temperature	-40° C to +85° C (-40° F to +185° F)			
Environmental Rating	UL294 Outdoor and Indoor rated, IP65			
Transmit Frequency	125 kHz, 13.56 MHz, and 2.4 GHz			
Communications & Panel Connection	Wiegand and RS-485 Half Duplex (OSDP) via Pigtail (18 in / 0.5 m) or Terminal Strip			
Device Management	HID Reader Manager / OSDP configuration			
Certifications	UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan), GreenCircle, Bluetooth SIG, and additional regions. <a href="http://www.hidglobal.com/certifications">www.hidglobal.com/certifications</a>			
Security Ratings	EAL 6+ Certified Secure Element Hardware			
Patents	<a href="http://www.hidglobal.com/patents">www.hidglobal.com/patents</a>			
Housing Materials	Polycarbonate - UL94 V0			
UL Reference Number	20	20K	40	40K
Warranty	Limited Lifetime			

- Read range listed is statistical mean rounded to nearest centimeter increment for ID-1 or clamshell credentials. HID Global testing occurs in open air. Form factor, technology and environmental conditions, including metallic mounting surface, can degrade read range performance; plastic spacers are recommended to improve performance on metallic mounting surfaces.
- Black trim baseplate & reader spacers available as an additional accessory at an additional cost.
- Measured in accordance with UL294 standards; see Installation Guide for details.
- NSC - Normal Standby Current; see Installation Guide for details.
- Intelligent Power Management (IPM) - Reduces reader current consumption up to 43%, based on model, compared to standard operating mode.

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2019-12-19-pacs-signo-reader-ds-en PLT-04831



[hidglobal.com](http://hidglobal.com)

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Toll Free: 1 800 237 7769  
Europe, Middle East, Africa: +44 1440 714 850  
Asia Pacific: +852 3160 9800  
Latin America: +52 55 5081 1670

An ASSA ABLOY Group brand



ASSA ABLOY



## Pre-assembled kits

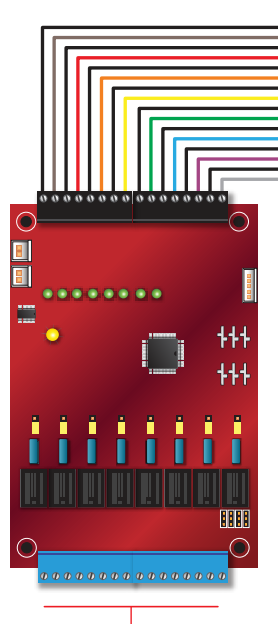
Dual Voltage Managed RS2 Kits	Power	Outputs	Pre-installed Panels
LSP-2DR-managed-kit-labor(RS2)	12VDC/4A and 24VDC/4A	8 Auxiliary, 8 Managed	LP1502
LSP-4DR-managed-kit-labor(RS2)	12VDC/4A and 24VDC/4A	8 Auxiliary, 8 Managed	LP1502 / (1) MR52
LSP-6DR-managed-kit-labor(RS2)	12VDC/4A and 24VDC/4A	8 Auxiliary, 8 Managed	LP1502 / (2) MR52
LSP-8DR-managed-kit-labor(RS2)	12VDC/4A and 24VDC/4A	8 Auxiliary, 8 Managed	LP1502 / (3) MR52
LSP-16DR-managed-kit-labor(RS2)	12VDC/12A and 24VDC/10A	16 Auxiliary, 16 Managed	LP1502 / (7) MR52

Single Voltage Non-managed RS2 Kit			
LSP-8DR-nonmanaged-kit-labor(RS2)	12VDC/12A or 24VDC/6A	8 Auxiliary, 8 Lock	LP1502 / (3) MR52



LSP-8DR-managed-kit-labor(RS2)



To Controller Outputs		
From	Color	To Input
M1-LOCK 1	BRN/BLK	M8-1 INPUT 1
M1-LOCK 2	RED/BLK	M8-1 INPUT 2
M2-LOCK 1	ORN/BLK	M8-1 INPUT 3
M2-LOCK 2	YEL/BLK	M8-1 INPUT 4
M3-LOCK 1	GRN/BLK	M8-1 INPUT 5
M3-LOCK 2	BLU/BLK	M8-1 INPUT 6
M4-LOCK 1	VIO/BLK	M8-1 INPUT 7
M4-LOCK 2	GRY/BLK	M8-1 INPUT 8
M5-LOCK 1	BRN/BLK	M8-2 INPUT 1
M5-LOCK 2	RED/BLK	M8-2 INPUT 2
M6-LOCK 1	ORN/BLK	M8-2 INPUT 3
M6-LOCK 2	YEL/BLK	M8-2 INPUT 4
M7-LOCK 1	GRN/BLK	M8-2 INPUT 5
M7-LOCK 2	BLU/BLK	M8-2 INPUT 6
M8-LOCK 1	VIO/BLK	M8-2 INPUT 7
M8-LOCK 2	GRY/BLK	M8-2 INPUT 8

### FROM ACCESS CONTROL

M8 inputs will accept:  
 NO Contact  
 NC Contact  
 Voltage Application  
 Voltage Removal  
 Ground Application  
 Ground Removal

### TO LOCK DEVICES

Each output selectable for  
 12V  
 24V  
 Fail Safe  
 Fail Secure  
 Fire Alarm Disconnect  
 Wet or Dry Contact

**All kits include RS2 controllers factory wired and tested for:**

- System power
- Lock control
- AC and system faults
- RS485 communication
- Tamper switch

# RS2 Technologies Access Power Guide

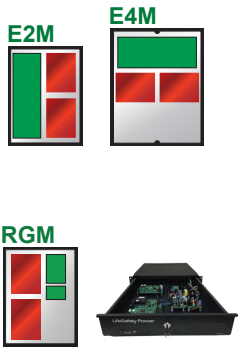
<b>4DR dual voltage</b>  <b>Power</b> • 2A/12V system • 2A/24V lock  <b>Standard system outputs</b> • 8 auxiliary / 4 lock  <b>Managed system outputs</b> • 8 managed lock	E2M small enclosure (20 x 16)	LSP PN	Additional Wiring Options	Wired Cable Mgmt
	Standard	FPO75-B100C4D8PE2M		
	Managed	FPO75-B100M8NL4E2M		
	Standard - ProWire	FPO75-B100C4D8PE2M/ <b>T4A</b>	T4B, T4C, T4V	Tie wrap only
	Managed - ProWire	FPO75-B100M8NL4E2M/ <b>T4A</b>	T4B, T4C, T4V	Tie wrap only
	E4M medium enclosure (24 x 20)			
	Standard	FPO75-B100C4D8PE4M		
	Managed	FPO75-B100M8NL4E4M		
	Standard - ProWire	FPO75-B100C4D8PE4M/ <b>T4A</b>	T4B, T4C, T4V	Tie wrap only
	Managed - ProWire	FPO75-B100M8NL4E4M/ <b>T4A</b>	T4B, T4C, T4V	Tie wrap only
	RGM Rackdrawer (2U)			
	Standard	RGM75B-C8PZ		
	Managed	RGM75B-M8PNZ		
	Standard - ProWire	RGM75B-C8PZ/ <b>T4A</b>	T4B, T4C, T4V	Tie wrap only
	Managed - ProWire	RGM75B-M8PNZ/ <b>T4A</b>	T4B, T4C, T4V	Tie wrap only

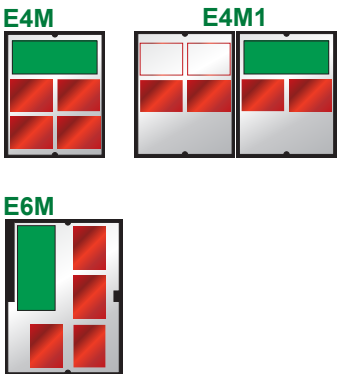
<b>8DR dual voltage</b>  <b>Power</b> • 4A/12V system • 4A/24V lock  <b>Standard system outputs</b> • 8 auxiliary / 8 lock  <b>Managed system outputs</b> • 8 auxiliary / 8 managed lock  <i>ProWire Note</i> • All models have (1) additional D8P	E4M medium enclosure (24 x 20)	LSP PN	Additional Wiring Options	Wired Cable Mgmt
	Standard	FPO150-B100C8PD8PE4M		
	Managed	FPO150-B100D8PM8PNL4E4M		
	Standard - ProWire	FPO150-B100C8PD8PE4M/ <b>P8A</b>	P8B, P8C, P8V   T8B, T8C, T8V	Panduit   Tie wrap
	Managed - ProWire	FPO150-B100D8PM8PNL4E4M/ <b>P8A</b>	P8B, P8C, P8V   T8B, T8C, T8V	Panduit   Tie wrap
	E4M1 medium/door enclosure (24 x 20)			
	Standard	FPO150-B100C8PD8PE4M1		
	Managed	FPO150-B100D8PM8PNL4E4M1		
	Standard - ProWire	FPO150-B100C8PD8PE4M1/ <b>P8A</b>	P8B, P8C, P8V   T8B, T8C, T8V	Panduit   Tie wrap
	Managed - ProWire	FPO150-B100D8PM8PNL4E4M1/ <b>P8A</b>	P8B, P8C, P8V   T8B, T8C, T8V	Panduit   Tie wrap
	E6M medium+ enclosure (30 x 23)			
	Standard	FPO150-B100C8PD8PE6M		
	Managed	FPO150-B100D8PM8PNL4E6M		
	Standard - ProWire	FPO150-B100C8PD8PE6M/ <b>P8A</b>	P8B, P8C, P8V   T8B, T8C, T8V	Panduit   Tie wrap
	Managed - ProWire	FPO150-B100D8PM8PNL4E6M/ <b>P8A</b>	P8B, P8C, P8V   T8B, T8C, T8V	Panduit   Tie wrap

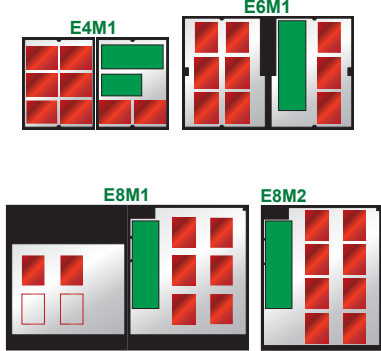
<b>16DR dual voltage</b>  <b>Power</b> • 12A/12V system • 10A/24V lock  <b>Standard system outputs</b> • 16 auxiliary / 16 lock  <b>Managed system outputs</b> • 16 auxiliary / 16 managed lock  <i>ProWire Note</i> • All models have (1) additional D8P	E4M1 small/door enclosure (24 x 20)	LSP PN	Additional Wiring Options	Wired Cable Mgmt
	Standard	FPO150/250-2C82D8PE4M1		
	Managed	FPO150/250-2D8P2M8NL4E4M1		
	Standard - ProWire	FPO150/250-2C83D8PE4M1/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C	Panduit   Tie wrap
	Managed - ProWire	FPO150/250-3D8P2M8PNL4E4M1/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C	Panduit   Tie wrap
	E6M1 medium/door enclosure (30 x 23)			
	Standard	FPO150/250-2C82D8PE6M1		
	Managed	FPO150/250-2D8P2M8NL4E6M1		
	Standard - ProWire	FPO150/250-2C83D8PE6M1/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C, T16V	Panduit   Tie wrap
	Managed - ProWire	FPO150/250-3D8P2M8PNL4E6M1/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C, T16V	Panduit   Tie wrap
	E8M1 large/door enclosure (36 x 30)			
	Standard	FPO150/250-2C82D8PE8M1		
	Managed	FPO150/250-2D8P2M8NL4E8M1		
	Standard - ProWire	FPO150/250-2C83D8PE8M1/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C, T16V	Panduit   Tie wrap
	Managed - ProWire	FPO150/250-3D8P2M8NL4E8M1/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C, T16V	Panduit   Tie wrap
	E8M2 large enclosure (36 x 30)			
	Standard	FPO150/250-2C82D8PE8M2		
	Managed	FPO150/250-2D8P2M8NL4E8M2		
	Standard - ProWire	FPO150/250-2C83D8PE8M2/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C, T16V	Panduit   Tie wrap
	Managed - ProWire	FPO150/250-3D8P2M8NL4E8M2/ <b>P16A</b>	P16B, P16C, P16V   T16B, T16C, T16V	Panduit   Tie wrap



# RS2 Technologies Access Power Guide

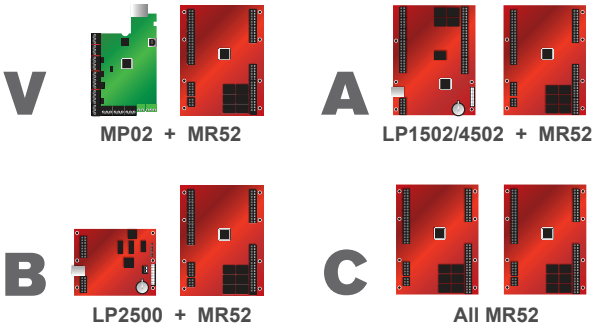
Wired Style   ProWire "A"	4DR - panel layouts
Two (2) panels	
Two (2) panels	
LP / MR52	
LP / MR52	
Wired Style   ProWire "A"	
Two (2) panels	
Two (2) panels	
LP / MR52	
LP / MR52	
Wired Style   ProWire "A"	
Two (2) panels	
Two (2) panels	
LP / MR52	
LP / MR52	

Wired Style   ProWire "A"	8DR - panel layouts
Four (4) panels	
Four (4) panels	
LP / (3) MR52	
LP / (3) MR52	
Wired Style   ProWire "A"	
Two (4) panels	
Two (4) panels	
LP / (3) MR52	
LP / (3) MR52	
Wired Style   ProWire "A"	
Two (4) panels	
Two (4) panels	
LP / (3) MR52	
LP / (3) MR52	

Wired Style   ProWire "A"	16DR - panel layouts
Eight (8) panels	
Eight (8) panels	
LP / (7) MR52	
LP / (7) MR52	
Wired Style   ProWire "A"	
Eight (8) panels	
Eight (8) panels	
LP / (7) MR52	
LP / (7) MR52	
Wired Style   ProWire "A"	
Eight (8) panels	
Eight (8) panels	
LP / (7) MR52	
LP / (7) MR52	

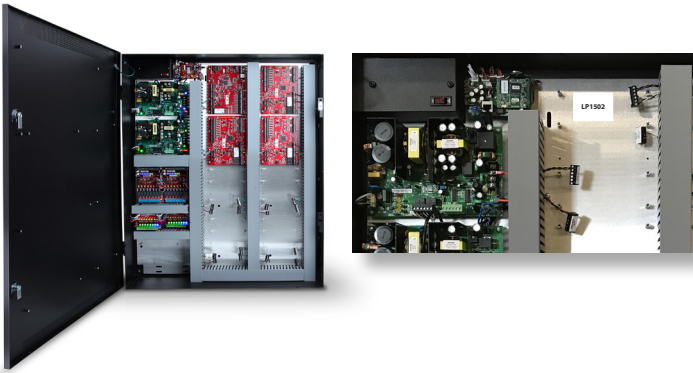


Factory Wired, Tested, UL Certified  
System Power, Lock Control, RS485 Communication,  
Power Supply Faults, Tamper Switch



Power Supplies	Accessory Boards & Enclosure	Wiring Options
<b>FP0150/250</b>	<b>2C8 3D8P E8M2</b>	<b>P16-A</b> / <b>E</b>
<small>Power rating (watts) FP075 75W FP0150 150W FP0250 250W</small>	<small>Accessory boards B100, C4, C8, D8, F8, M8 C4P, C8P, D8P, F8P, M8P *P* = PTC</small>	<small>Enclosure E4M, E4M1 E6M, E6M1 E8M1, E8M2</small> <small>Wiring Suffix P = Panduit T = Tie Wrap Doors = 4, 8, 16 # 230VAC  Controllers A LP1502(4502), MR52 B LP2500, MR52 C ALL MR52 V MP02, MR52</small>

**Prewired systems - wiring notes**  
1) E2M and RGM models are Tie Wrap only (T suffix)  
E4Mx, E6Mx, E8Mx models can be ordered with Tie Wrap (T) or Panduit (P)  
2) Models in guide call out "A" style wiring for LP1502/MR52 combination.  
For B, C, or V wiring (chart above), change part number suffix accordingly.  
example FP0150-B100C82D8PE6M/P8-A, FP0150-B100C82D8PE6M/P8-V etc

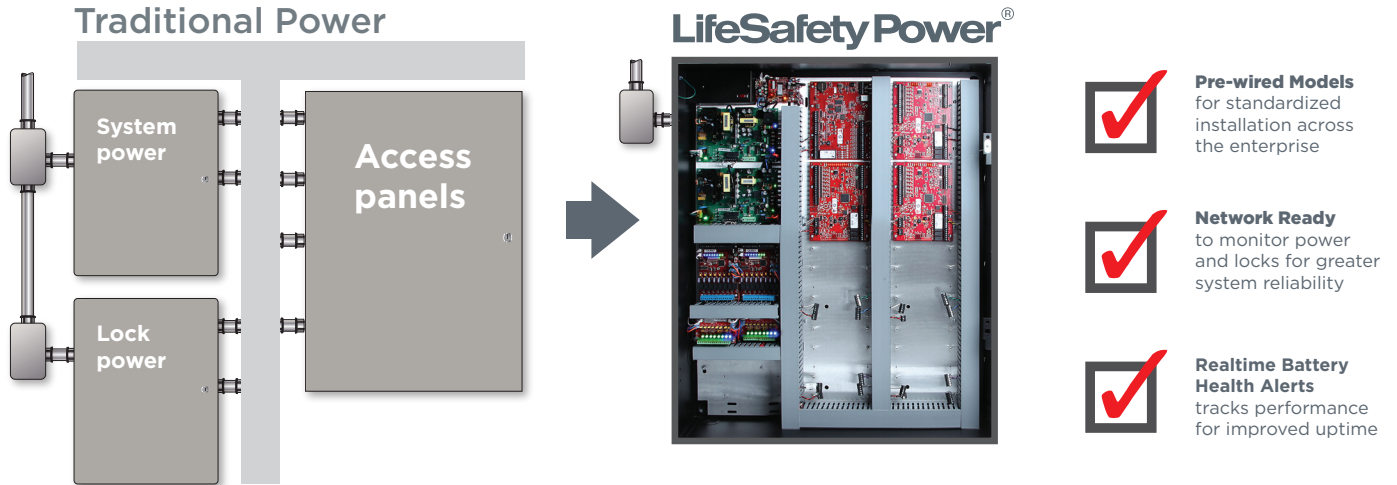


All systems carry a joint LSP/Mercury  
UL/CUL/CE listing for security and  
access control





## INNOVATION



## INTELLIGENCE



Network power monitoring  
enterprise wide



Proactive  
battery management



Preemptive  
monitoring and reporting



Powerful historical  
data and analytics

## INTEGRATION



# Security as a Service

## The Best Value in Access Control



Access It! Universal.NET is a very powerful, scalable Access Management Software solution offered by RS2 Technologies. Access It! Universal.NET has been a leading choice for systems

from entry-level, single-user systems to multi-user, enterprise level systems for global deployment for many years. Access It! was designed from the ground up with the end user in mind making it the most user-friendly access control software on the market today.

Now with our offering of Access It! Universal.NET Security as a Service, we are expanding into every market with the ability to create even more ease of installation and limitless management of a business's security operation for seamless control.

## Benefits of Security as a Service

**Cost Savings** Security as a Service allows for less reliance on internal IT departments for deployment and management of an access control system creating a cost savings for reinvestment into additional layers of deployment, or other integrations. Paying for the deployment and ongoing maintenance of this internal infrastructure is now a thing of the past.

**Network Security** Deployment into a managed service alleviates the concern for cyber security measurements. Hosting facilities are SAS Type II, audited, Tier 4 Data Centers. ISO 9001, SOC 2 Type II, SOC 3, PCI-DSS and HIPAA compliance. Secured Entrance 24/7 with EAC and Video Surveillance. Documented Ingress and Egress Data. Disaster Recovery and Power Backup supported throughout all locations. Test Connectivity – 100Mb, 1Gb, 10Gb.

**Remote Management** RS2 SaaS services can be managed by your team anywhere, anytime. Granular User Group permissions to be able to delegate control of your business from simple Cardholder management – to full Administrative control. RS2 SaaS services also can allow remote management of these systems by the Security Integrator – allowing for much faster response time and easier troubleshooting of issues with a simple call. No longer needing to “roll a truck” for each service call need.

**Low Risk. High Reward.** Flexible options tailored to your needs. No longer the need for a large capital expense to purchase the system software licensing upfront or server and workstation costs. Spread the spending out as operating expenditures can ease the stress on yearly budgets.



an **ACRE**  
brand

## Access It! Universal.NET SaaS



RS2's Access It! Universal.NET SaaS has been a well thought out deployment. We have decided to do this “Differently” than the rest of the industry to allow more flexibility for the integrator and end user to scale these systems with organic growth without much interaction and need to keep changing the monthly payment schedules.

## SaaS Options

### Dedicated Server Deployment

RS2 SaaS will be deployed through our hosting partner's data center environment where EACH customer will have a dedicated server for their application. This is designed for scalability, ease of management and to eliminate risk to each customer deployed. Pricing model is designed to reflect how Access It! Universal.NET Software has been priced by System Control Processor(SCP) since its inception – but now at a lower monthly service rate.

### Shared Server Deployment

In order to provide a cost-conscious solution for those smaller deployments that desire cloud management of their system, RS2 developed a Shared Server offering. This solution will be offered on a per door pricing model to allow for a more cost effective solution with the ability to easily migrate into the full dedicated server environment as needed without replacing any hardware.



# SaaS Solutions

Access It! Universal.NET SaaS Software Features	Shared Server	Standard Dedicated Server	Enterprise Dedicated Server
Clients	Unlimited	Priced by Client Seat	Priced by Client Seat
Badging	Yes*	Yes*	Yes*
User Defined Macros	Yes - Limited	Yes	Yes
Remote Desktop Thick Client	No	Yes	Yes
Graphical Maps	No	Yes	Yes
DVR Integration	No	Yes*	Yes*
Report Scheduler	Yes - Limited	Yes	Yes
SCPs	1 Included - cost per additional	Up to 1024	Up to 1024 per Regional Server
Tasks/SCP	256 / SCP	256 / SCP	256 / SCP
Companies	No	Yes*	Yes*
Support for IP Enabled Locksets	No	Yes*	Yes*
Support for Aperio RS485 Hub Locksets	No	Yes	Yes
Support for Allegion RS485 PIM Locksets	No	Yes	Yes
Support for BEST WiQ Locksets	No	Yes	Yes
Support for Engage Gateway Devices	No	Yes*	Yes*
Support for Salto Sallis or SHIP Locksets	No	Yes*	Yes*
Support for Wiegand driven Wireless Locksets	Yes	Yes	Yes
Support for System Conversions	No	Yes*	Yes*
Support for Biometric Device Verification	No	Yes*	Yes*
Precision Access	No	Yes	Yes
Timezones	255	255	255 per site
Holidays	255	255	255 per site
Advanced Elevator Integration	No	No	No
Multiple Sites (Data Partitioning)	No	No	Yes
Data Exchange Packages	No	Yes*	Yes*
Import/Export/Batch Update	No	Yes*	Yes*
Operating Modes	No	Yes	Yes
Zenitel Intercom Integration (AlphaCom or IC-Edge)	No	Yes*	Yes*
RESTful Web API	No	Yes*	Yes*
Email Notification	Yes*	Yes*	Yes*
Web Client	Yes	Yes	Yes

\*Additional Fees Apply \*\*Any integrated locks must be purchased through RS2 to avoid additional charges.



# Hardware Solutions

## Hardware Solutions

RS2 Technologies has developed an integrated family of access control hardware that can be configured to meet a wide variety of applications. It is built around the workhorse LP Series of System Controllers from Mercury Security. These feature-rich devices are a cost-effective solution for very small to very large systems. A variety of input/output modules, communications packages, options, and stand-alone systems provide unparalleled flexibility for system configuration. The Access It! suite of access control software also integrates with a mixture of biometrics, DVR/NVR systems, locksets, and intrusion detection among many integrated devices. RS2 also carries complete enclosure and accessory options that can meet the need of any facility.



The LP Series of panels from Mercury are built on the Linux Embedded platform and provide numerous security and communication enhancements from earlier hardware lines. Devices have the identical footprint and interface as earlier models providing a simplified transition from legacy boards.

### LP SERIES SCPs ARE AVAILABLE IN THESE CONFIGURATIONS:

#### LP-1501

The LP-1501 is a versatile IP-based Controller that is capable of operating as a standalone board controlling a single door or configured to allow for downstream RS-485 communication with control for up to 17 total doors. The LP-1501 supports PoE+ and is capable of delivering up to 1.25 A of power at the for readers, locks, and ancillary devices.

#### LP-1502

The LP-1502 controller contains an onboard SIO that controls two doors locally and is expandable to control up to 64 doors total. 4 auxiliary inputs and 2 auxiliary outputs provide the latitude to connect multiple devices to a single board.

### RS2 PROCESSORS INCLUDE A VARIETY OF FEATURES:

- Built on the secure Linux Embedded platform
- Secure communication with end-to-end encryption (E2EE)
- Support for up to 64 readers
- Card capacity up to 2,000,000 cards
- Native hardware and software integrations
- Variety of communication and power options
- Supports up to 1024 inputs and 1024 outputs
- Flash firmware capability for easy field upgrades
- Support for up to 8 different card formats/technologies
- PIV-II, CAC, and TWIC card compatible.
- UL 294 recognized, CE (RoHS) compliant
- FCC Part 15 Class A, HSPD-12/FIPS 201
- AES 256-bit NIST Certified Encryption
- UL 294 recognized, CE (RoHS) compliant
- FCC Part 15 Class A, HSPD-12/FIPS 201

#### LP-2500

The LP-2500 controller board is a powerful, IP-based controller board that is expandable to up to 64 doors with a card capacity up to 600,000. Dual RS-485 busses provide an ability to run more than one wiring run or each bus can support different device types and protocols.

#### LP-4502

The LP-4502 is the most powerful SCP and features a card capacity up to 2,000,000 cards. The dual RS-485 busses allows latitude in wiring and devices. The LP-4502 also features integrations such as embedded pivClass authentication, elevator destination dispatch, and BACnet.

### SERIES 3 SIOs ARE AVAILABLE IN THESE CONFIGURATIONS:

#### MR-16IN-S3

The MR-16IN-S3 subpanel contains 16 general-purpose input monitor points and two control relays. The MR-16IN-S3 is ideal for monitoring alarm or facility monitoring using devices such as door sensors, glass break sensor, water sensors, or smoke detectors.

#### MR-16OUT-S3

The MR-16OUT-S3 subpanel contains 16 general-purpose outputs that can be used to control a variety of devices included lighting, heating/cooling, sirens, or elevator control.

#### MR-50-S3

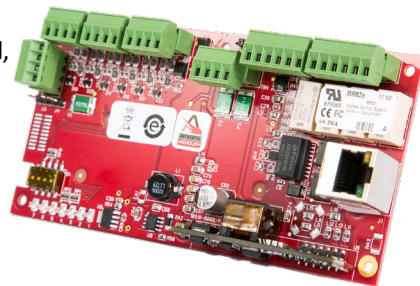
The MR-50-S3 subpanel is single door SIO that is compact with a small footprint making it an ideal solution for applications requiring installation at or near the door.

#### MR-52-S3

The MR-52-S3 is an SIO capable of controlling two doors with 4 auxiliary inputs and 4 auxiliary outputs providing the most versatile subpanel. The flexibility provided by the MR-52-S3 makes it a popular choice.

#### MR-62e

The MR-62e is a PoE+ enabled, IP-based subpanel. The MR-62e supports only secure OSDP readers and can supply up to 1.5 A at the board for readers, strikes, and auxiliary devices when using PoE+.



### Multiplexers

The **MUX-8** is an eight-port RS-485 multiplexer that takes an RS-485 or RS-232 input and multiplexes eight 2-wire RS-485 communication channels, providing numerous installation configuration options.

# Hardware Solutions

## ▶ Stand-Alone Systems

RS2's First Step<sup>SM</sup> PLUS System is designed to address the needs of users who want an easy-to-install, cost-effective solution for simple door control. The First Step<sup>SM</sup> PLUS System combines the versatile, cost-effective LP Series of controllers with Access It!® Lite.NET<sup>TM</sup> software. Expandability for two card readers and associated door hardware is provided through the MR-52-S3 dual-reader interface module.

Our NEXt Step<sup>SM</sup> System network appliance provides users with an economical and reliable two-reader (expandable up to 64 readers) access control solution that requires no computer or software installation. Users simply assign it an IP address and they're up and running. NEXt Step<sup>SM</sup> can be accessed from any supported web browser, computer, or mobile device. It is built with solid state Authentic Mercury<sup>TM</sup> hardware, has no moving parts, and is highly secure. All the software is completely pre-installed. It does not require operating system updates.

Our Step Up<sup>SM</sup> System is a reliable, easy-to-install hardware retrofit offering a simple board swap of boards currently installed in legacy systems. The Step Up<sup>SM</sup> System is based on the reliable M5 Bridge from Mercury Security, which allows users to perform a simple board swap of every board currently installed in legacy enclosures with a comparable Step Up<sup>SM</sup> replacement.

## ▶ Enclosures and Options

RS2 **NCL<sup>SM</sup>** Series enclosures are rugged, NEMA approved, vented, 18-gauge steel enclosures, available in the following models:

- **NCL<sup>SM</sup>**: 18"(H) x 15"(W) x 4"(D) enclosure can accommodate up to three full-size boards or five mid-size boards.
- **NCL-12<sup>SM</sup>**: 24"(H) x 18"(W) x 4.5"(D) direct wire ready enclosure. (UL-approved NCL-12UL<sup>SM</sup> is also available.)
- **NCL-8-SPW<sup>SM</sup>**: 36"(H) x 24"(W) x 5"(D) SPW (Semi Pre-Wired) enclosure.
- **NCL-12-WMS<sup>SM</sup>**: 36"(H) x 24"(W) x 5"(D) with 1" x 3" wire management system.
- **NCL-SBE<sup>SM</sup>**: A single board enclosure (SBE) configured to hold any hardware boards.

All RS2 **NCL<sup>SM</sup>** enclosures include a dedicated tamper switch, cabinet security lock, and assorted knockouts and keyway locks.

Options for the **NCL<sup>SM</sup>** line include an adapter plate, linear and switching power supplies, and a battery backup. Power supplies include battery charger and power fail detection.

RS2 also carries enclosure and power options from ASSA ABLOY, Altronix, Bruder Manufacturing, and LifeSafety Power.



*RS2 offers a complete line of products that can meet the needs of any system by delivering a wide variety of power and enclosure options.*

## ▶ Biometrics

RS2 Technologies offers the most advanced options in biometric identity verification. These biometric devices can provide multiple factors of authentication using biometric verification providing a more secure access control solution. Biometric solutions include fingerprint, finger vein, hand geometry, facial recognition, and iris scanning. RS2 integrates seamlessly and automatically syncs cardholders, cards, access levels, and biometric templates as needed. Enrollment can be done directly from the Access It! Universal.NET software screen delivering a simplified method of delivering high-level security.

## ▶ Credentials and Readers

RS2 Technologies carries a diverse selection of readers and credentials. Readers are capable of using 125 kHz credentials, 12.56 MHz credentials, and Bluetooth Low Energy (BLE) credentials via a smartphone. Readers are also capable of supporting smart cards, Data-on-Card solutions, HID iCLASS Seos, and legacy card technologies such as Magstripe. Smart card encoding is available as an optional feature in Access It! Universal.NET. RS2 carries a variety of readers that support the Open Supervised Device Protocol (OSDP) to ensure communication between the reader in the panel is encrypted and secure. RS2 Technologies also carries credentials for each of these technology types.

## ▶ Integrations

The Access It! software suite offers numerous integrations to many different hardware systems. Included in the hardware integrations are the Mercury Security Platform, Biometrics, BACnet, Elevator Destination Dispatch, DVR/NVR Systems, Intrusion Detection, Power Monitoring, and Wireless/IP Locksets. These hardware integrations provide a framework for creating complete access control solutions fit to meet the needs of any facility.

## ▶ Wireless/IP Locksets

Wireless/IP locksets lower costs by reducing installation labor, simplifying project management, and leveraging existing infrastructure. RS2 partners with the leading lockset manufacturers to integrate directly into the Access It! Universal.NET software. Supported locksets include ASSA ABLOY, Allegion, Best Access, and SALTO. These platforms provide varying features including Data-on-Card, PoE, and wireless.

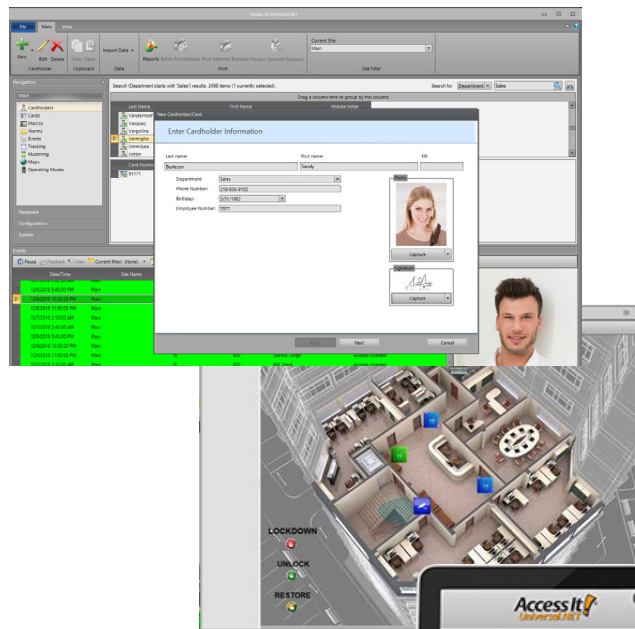




# Software Solutions

## Software Solutions

The Access It!® line of software from RS2 Technologies is the industry's most advanced, easy-to-use access control software. To accommodate a wide range of applications, the software line ranges from Access It!® Lite.NET, an entry-level, single-user system, to Access It!® Universal.NET, a scalable system that can be expanded from single-building control into a multi-user, enterprise-wide system. Access It!® was designed from the ground up, with the end user in mind. By using the familiar Outlook® style interface for each version, the Access It!® line results in an operational access control system in minutes instead of hours. Frequently performed operations, such as image capture and adding cards, are changed into straightforward, step-by-step operations. With this simple concept, investments in user education are maintained throughout the life of the system, while streamlining system administration tasks.



### Software Features

Built around the trusted Mercury Security platform, the Access It! suite of software works with the most reliable and trusted hardware in the access control industry. Additionally, the Access It! suite of software works natively with multiple biometric and lockset hardware platforms. Moreover, numerous integrations, including Destination Dispatch, DVR/NVR, Intercom, pivCLASS, and visitor management provide the ability to create a solution for any environment, big or small, while still keeping the software simple to operate and use. The user interface is designed in logical manner making learning and using the software easy. Within the software suites, numerous software features are standard or optional including Badging, Data Import/Export, Data Exchange, E-mail Notification, Holiday Management, Maps, and a web client.



Access It! Lite.NET is the entry-level tier of access control software. Access It! Lite.NET is free up to 8 doors and can be expanded to support a maximum of up to 64 doors. Access It! Lite.NET comes with a single client license but is expandable to an unlimited number of licenses. Client licenses are concurrent use licenses meaning each client license will allow for a single user to connect at a time. Access It! Lite.NET also has optional ID Badging, Data Import/Export, and web client. The Access It! Lite.NET software is bundled with the First Step hardware bundles for simplified purchasing and deployment. Access It! Lite.NET supports the LP-1501, LP-1502, and LP-2500 controller boards as well as the MR-50-S3, MR-52-S3, MR-16IN-S3, and MR-16OUT-S3 subpanels. Access It! Lite.NET provides a cost-efficient platform for access control and is simple to learn and use.



The NEXt Step is a self-contained network appliance built with simplicity in mind. The NEXt Step comes in two configurations, 2-door or 4-door. Both configurations are expandable up to 64 door configurations. The NEXt Step appliance comes with everything needed to operate a small access control system. The NEXt Step includes an NCL metal enclosure, power supply/transformer, a solid state network appliance pre-loaded with the NEXt Step access control software, an LP-1502 controller, and an optional MR-52-S3. The NEXt Step is simple to setup. Simply connect the device to the network and set the IP address. Once completed the device is online and ready to be programmed. The software also has options for ID Badging and Data Import/Export. The NEXt Step unit is a popular choice due to its inexpensive nature, ease of deployment and maintenance, and straightforward software.



Access It! Universal.NET is an Access Management Solution for Any Size Business! Whether you need simple access control for a few employees in a single building, or a variety of operations for thousands of employees in a multi-region system, Access It! Universal.NET is designed to meet your needs. This powerful, user-friendly software allows you to select the feature sets you need to build a scalable, cost-effective system. Access It! Universal.NET is available in both Standard and Enterprise versions. The Access It! Universal.NET software integrates seamlessly to diverse set of devices and contains logic to build tasks and macros used for building automation. Access It! Universal.NET is built with safety, security, and scalability in mind to deliver the most complete access control solution.



# Software Solutions

**AccessIt!**  
*Lite.NET*

**AccessIt!**  
*NET Step*

**AccessIt!**  
*Universal.NET*  
Standard Edition

**AccessIt!**  
*Universal.NET*  
Enterprise Edition

Access Levels	64	64	32,767 Per Site	32,767 Per Site
Access Levels Per Card	6	6	Up to 128	Up to 128
Advanced Window Control	No	No	Yes	Yes
Alarm/Event Filters	No	No	Yes	Yes
Anti-Passback	No	No	Yes	Yes
API	No	No	Yes	Yes
Automatic Backups	No	No	Yes	Yes
bacNET Support	No	No	Yes	Yes
Badging	Optional	Optional	Optional	Optional
Biometric Support	No	No	Optional	Optional
Built-In Reports	1	1	125+	125+
Calendar Scheduler	No	No	Yes	Yes
Card Groups	No	No	Yes	Yes
Cardholders	5,000	5,000	Unlimited	Unlimited
Custom Reports	No	No	Yes	Yes
Data Exchange	No	No	Optional	Optional
Data Import/Export	Optional	Optional	Optional	Optional
Database Replication Support	No	No	Yes	Yes
Data-on-Card Solutions	No	No	Yes	Yes
Destination Dispatch	No	No	Optional	Optional
DVR/NVR Support	No	No	Yes	Yes
Elevator Control	No	No	Yes	Yes
E-mail Notification	No	No	Optional	Optional
Escort Mode	No	No	Yes	Yes
Holiday Groups	1	1	8	8
Holidays	32	32	255 Per Site	255 Per Site
Intercom	No	No	Optional	Optional
Live Mustering	No	No	Yes	Yes
Lockset Integrations	No	No	Yes	Yes
Macros	No	No	Yes	Yes
Maps	No	No	Yes	Yes
Multiple Credentials Per Person	No	No	Yes	Yes
Operating Modes	No	No	Yes	Yes
OSDP Support	No	No	Yes	Yes
pivCLASS Authentication	No	No	Optional	Optional
Precision Access	No	No	Yes	Yes
Regional Servers	No	No	No	Optional
Report Designer	No	No	Optional	Optional
SCPs	1	1	Up to 1,024 Per Server	Up to 1,024 Per Server
Sites(Partitioning)	No	No	No	Yes
Smart Card Encoding	No	No	Optional	Optional
Tasks Per SCP	64	64	256	256
Themes	No	No	Yes	Yes
Time & Attendance	No	No	Optional	Optional
Time-based Activate/Expire	Date Only	Date Only	Date or Date & Time	Date or Date & Time
Timezones Per Site	32	32	255	255
User Definable Event/Alarm Colors	No	No	Yes	Yes
Visitor Management	No	No	Multiple Integrations	Multiple Integrations
Web Client	Optional	Yes	Optional	Optional

## Software Service and Support

RS2 Technologies is dedicated to providing expert technical support and services in a timely and accurate manner. We understand that supporting our customers' needs is as important as the products that we develop. Our support staff is comprised of knowledgeable and experienced technicians who can quickly assist with any issues that may arise and our average wait time for support is an industry leader.



We use TeamViewer to assist customers remotely with rapid diagnosis and resolution of support issues. TeamViewer allows us to instantly share and interact with remote customer desktops – anywhere in the world. Our comprehensive knowledgebase is available at [helpdesk.rs2tech.com](http://helpdesk.rs2tech.com) and is comprised of articles detailing all aspects of our software including requirements, setup and configuration, integrations, and common troubleshooting steps. Full product documentation is available on our web site. This includes all software user manuals and hardware installation guides. General information and technical support bulletins are sent out on a regular basis.



# RS2 Technologies

## Access Control Solutions

WEB 2.0

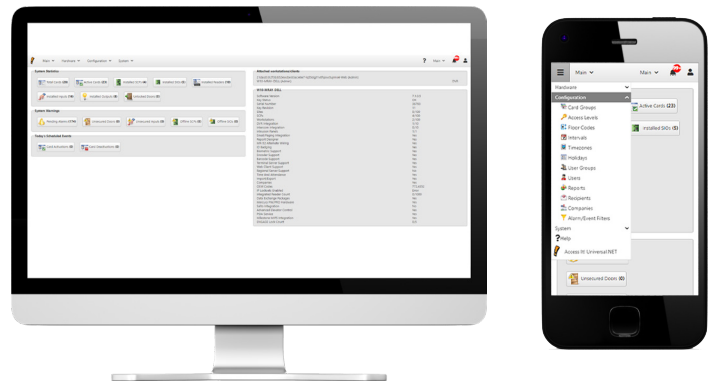
### Web Client

Version 7.1 of Access It! Universal.NET features a fully-redesigned web client. The new web client is built to operate the same as the thick client and deliver the same intuitive and easy-to-use UI to the web. The web client is full-featured and can be used to view live events, monitor hardware status, control door hardware, execute tasks, manage cardholders and cards, and more. The new web client delivers more functionality and features than the previous version and the support for mobile is vastly improved.

The new web client is built on modern web technology. This allows for secure control of your system from anywhere with network accessibility. Control the system from a desktop, laptop, tablet, or phone. The web client is built to be responsive and adjust to any device delivering a dynamic way to manage your system.

The web client is built on the .NET framework and uses Internet Information Systems (IIS) as the web server. The web client supports SSL encryption to ensure that data remains secure at all times. Access It! Universal.NET supports end-to-end encryption.

**Access It!**<sup>®</sup>  
**Universal.NET**



Responsive and easy to use, the web client works on all devices. Compatible with all modern web browsers, the web client provides an easy way to control your system. Central installation means that only the server needs to be updated when updating the software and not all the clients.

#### The web client includes these features:

- Completely redesigned UI for web client
- Designed to operate in the same way as the thick client making it easy for anyone to use either without having to train them
- Responsive design makes the web client the right solution to monitor, control, and configure your system from any device
- The web client can be accessed from anywhere with network connectivity
- Light and dark colored themes
- Supports full SSL for a secure web experience
- Uses Internet Information Services (IIS)
- Built using the .NET Framework
- Works on all modern browsers
- Simple and intuitive UI
- Use on any computer, laptop, tablet, or smartphone

**RS2 Technologies**  
an ACRE<sup>®</sup>  
company

RS2 Technologies has constructed an integrated family of access management software and hardware that can be configured to provide a cost-effective solution for very small to very large systems. The Access It! Universal.NET software is trusted around the world in all types facilities. RS2 Technologies delivers a complete solution to maximize freedom for users, control costs, and allow for interoperability via integration to provide the most complete solution from a platform trusted worldwide.



# Why Choose RS2?

Why should you choose an access control solution from RS2 Technologies? There are dozens of reasons, but they can be grouped into a handful of key categories:

- The lowest cost of acquisition & the lowest Total Cost of Ownership (TCO)
- A scalable, open-platform solution
- Industry-proven Authentic Mercury™ hardware
- Powerful, user-friendly software
- Outstanding U.S.-based technical & customer support
- Experienced, technically-competent dealers & integrators
- Thousands of successful installations in the U.S. and around the world in almost every industry & market

## Lowest Cost of Acquisition & Ownership

- No “reader license” charges
- RS2 trains & certifies integrators at RS2 expense, reducing integrators’ and customers’ expense
- Most competitors’ add-on features are standard in RS2 software
- Customers receive full credit for the previous level of software purchased as their system grows, protecting their investment
- RS2 does not have “Software Maintenance Agreements”
- RS2 offers Version Upgrades at a lower cost


## Open Platform Solutions




- RS2 uses only Authentic Mercury™ open-platform hardware
- RS2 is one of only four Mercury Platinum Elite Partners in the world
- RS2’s open-platform solutions facilitate:
  - > Ease of installation
  - > Ease of scalability & multi-national application
  - > Ease of integration
- RS2 integrates to most video, CCTV, intercom, visitor management, intrusion detection & other systems
- RS2 open-platform solutions are compatible with the full spectrum of card technologies

## Broad Application Experience

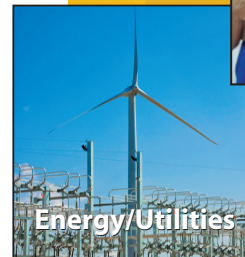
- RS2 access control solutions have been installed across the U.S. and around the world.
- RS installations can be found in educational institutions ranging from small (*Anderson University, Valparaiso University*) to very large (*University of Pittsburgh, Purdue University, University of Texas, George Mason University, and many others*).
- In the healthcare arena, RS2 solutions are installed in hospitals from Chicago’s Loyola University Medical Center to California’s Mercy Medical Center to the Palm Beach County Health Department in Florida.
- In the Financial & Banking and Energy & Utilities markets, RS2 users include multinational banks in India and brokerage houses in California, wind farms in Michigan, water treatment facilities in Nebraska, natural gas wells in Texas, and electric utilities everywhere.

	<b>Open Architecture in Access Control Systems</b> <i>Why Open Systems Are Better Than Proprietary Systems</i>  An RS2 Technologies White Paper  <small>400 Fisher Street, Suite G Munster, IN 46321 www.rs2tech.com</small>
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	<b>Total Cost of Ownership (TCO) for Access Control Systems</b> <i>The Importance of Considering All Costs When Comparing the Initial Costs of Access Control Systems.</i>  An RS2 Technologies White Paper  <small>400 Fisher Street, Suite G Munster, IN 46321 www.rs2tech.com</small>
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Health Care



Energy/Utilities



Education



Financial