HIRSCH

Primis Access Control System

ASSA ABLOY Door Service Router (DSR) Integration

ASSA ABLOY



Manage Corbin Russwin and Sargent IN120 Wi-Fi and IN220 PoE locks directly from Primis through the ASSA ABLOY Door Service Router (DSR)

Organizations want the convenience of wireless and IP-connected locks without running new wiring to every door. With Primis and ASSA ABLOY, Wi-Fi and PoE locks are managed alongside hardwired doors from the same browser-based interface.

The ASSA ABLOY DSR is the middleware between Primis and the locks. Primis connects to the DSR over TLS 1.2 encrypted IP, and the DSR returns lock events to Primis through a callback connection. The DSR runs on its own Windows physical or virtual server, and a single DSR 8.0.37 instance supports up to 2,048 locks.

IN120 Wi-Fi locks use existing IEEE 802.11b/g/n networks and make access decisions locally, so doors keep working if the network is unavailable. They check in on a schedule or immediately on alarm. IN220 PoE locks are powered and connected by a single IEEE 802.3af Ethernet cable and stay online for real-time updates.

Locks are imported into Primis, grouped into Wi-Fi Lock Areas and given unlock schedules, operating modes and unlock times. Users and credentials are synchronized automatically, with bulk confirm, reload and removal to save time on large sites.

Sync, battery, online and door status appear for every lock, and the Status tab provides troubleshooting tools plus DSR bulk reload and recovery mode for DSR disaster recovery.

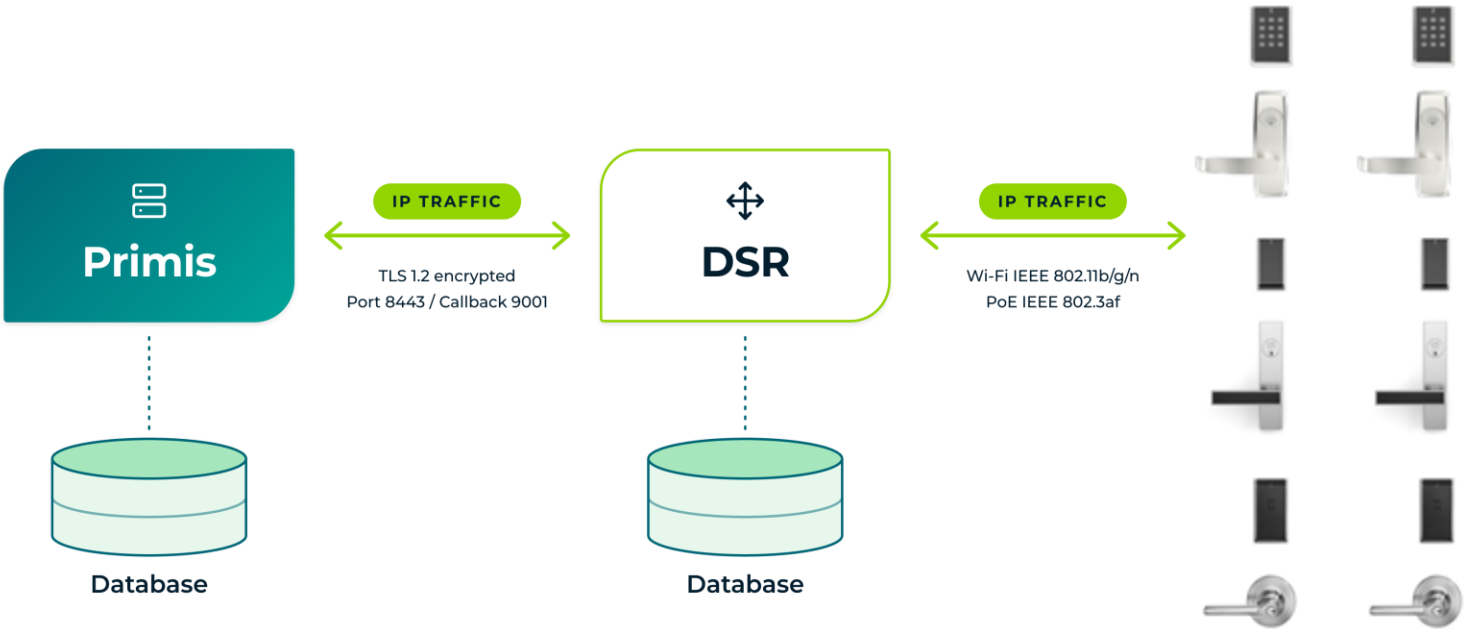
High-Security Features

- Monitoring, Command and Control of Corbin Russwin and Sargent Wi-Fi and PoE locksets (IN120 & IN220)
- Use IEEE 802.11b/g/n Wi-Fi or 802.3af PoE
- Use existing Wi-Fi and PoE infrastructure reducing installation costs
- Mortise and Exit hardware options
- ASSA ABLOY Certification to DSR 8.0.37 for support to 2,048 locks
- Bulk device reload/confirm/removal
- DSR bulk reload / Disaster Recovery
- Lock Privacy Mode
- TLS v1.2 communication between DSR and Primis
- Reversed Bit Card Format
- Sentinel Bit Card Format

SPECIFICATIONS

General	
Supported Manufacturers	ASSA ABLOY: Corbin Russwin and Sargent
Supported Locks	IN120 Wi-Fi and IN220 PoE intelligent locks, including keypad models
Hardware Options	Mortise, cylindrical and exit device trim
Supported Primis Software Versions	Primis v11.5.2.5 or later
Integration Middleware	ASSA ABLOY Door Service Router (DSR) 8.0.37
Capacity	Up to 2,048 locks per DSR
Communication	TLS 1.2 encrypted; DSR port 8443, Primis callback port 9001
Card Formats	Selectable card format (e.g. PROX_RAW) with Sentinel Bit and Reversed Bits options
Licensing	FR-30-40-ASSA connector license per DSR server; FR-30-40-ASSA-L license per lock
Features	
Add/Manage DSR from Primis	Set the DSR name, IP and port, callback IP and port, user limit, card format and TLS/SSL under System > ASSA ABLOY
Access Point Import	Locks configured with the ASSA ABLOY Lock Configuration Tool are confirmed with the DSR and imported as Primis devices; descriptions are replicated from Primis to the DSR
Bulk Device Operations	Bulk confirm, reload and delete of selected locks, with a select all rows option
Wi-Fi Lock Areas	Assign each lock to a controlled area with unlock schedule, operating mode (e.g. Card Only), unlock time and extended time
User & Credential Management	Users, credentials and access rights managed in Primis and sent to the locks via the DSR
Synchronization	Hourly sync schedule, Synchronize DSR, Reload Out-Of-Sync / All Devices
Lock Status	Sync, battery or external power, confirmed, online, last seen, door state and lock state, with status icons for out of sync, disabled and unknown
Lock Privacy Mode	Supports the lock privacy function
Event Logging	Lock access and door events reported to the Primis event log
Status & Diagnostics	Interface status, restart DSR interfaces, restart AMS connection, reset Primis DSR data and restart message queue
DSR Reload / Disaster Recovery	DSR recovery mode, add and confirm all access points, disable/enable all access points and clear all DSR data
DSR Server Requirements	
Up to 128 Locks	Desktop/laptop, dual CPU cores, 4 GB RAM, 50 GB free disk; Windows 10 Pro, Windows 11 Pro or Windows Server 2016/2019/2022 (64-bit)
Up to 1,024 Locks	4 CPU cores, 8 GB RAM, 75 GB free disk; Windows Server 2016/2019/2022 (64-bit)
Up to 2,048 Locks	8 CPU cores, 16 GB RAM, 100 GB free disk; Windows Server 2016/2019/2022 (64-bit)
Deployment	Dedicated physical or virtual machine (virtual recommended)
Browser Compatibility	Microsoft Edge, Mozilla Firefox, Google Chrome

Figure 1: System Architecture



IN120 Wi-Fi / IN220 PoE

Figure 2: ASSA ABLOY DSR Access Points

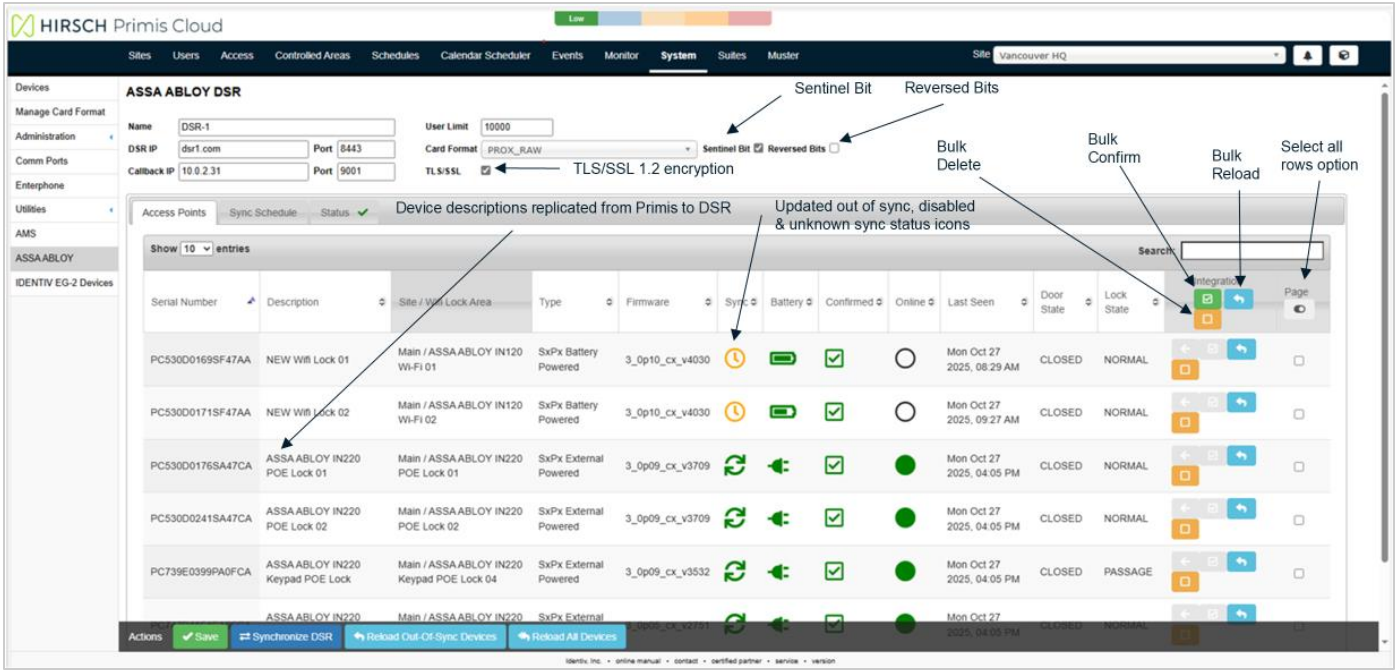


Figure 3: DSR Sync Schedule

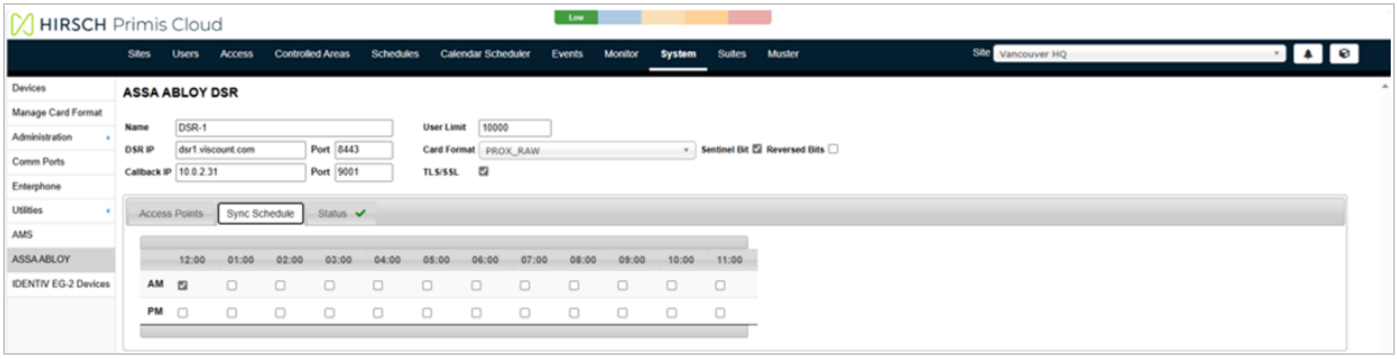


Figure 4: DSR Status, Troubleshooting and Recovery

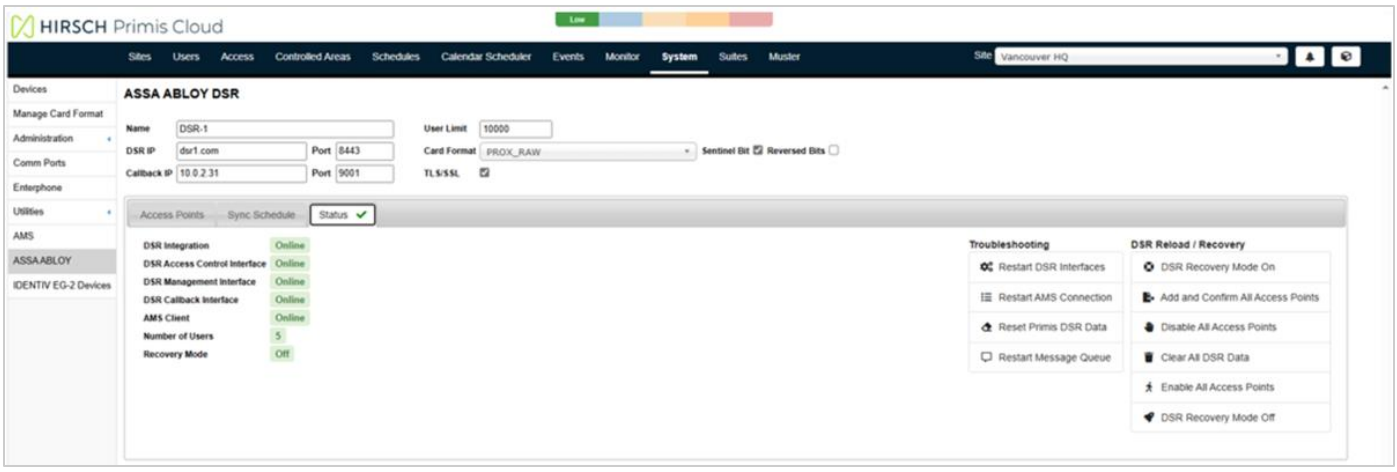


Figure 5: Edit Wi-Fi Lock Area

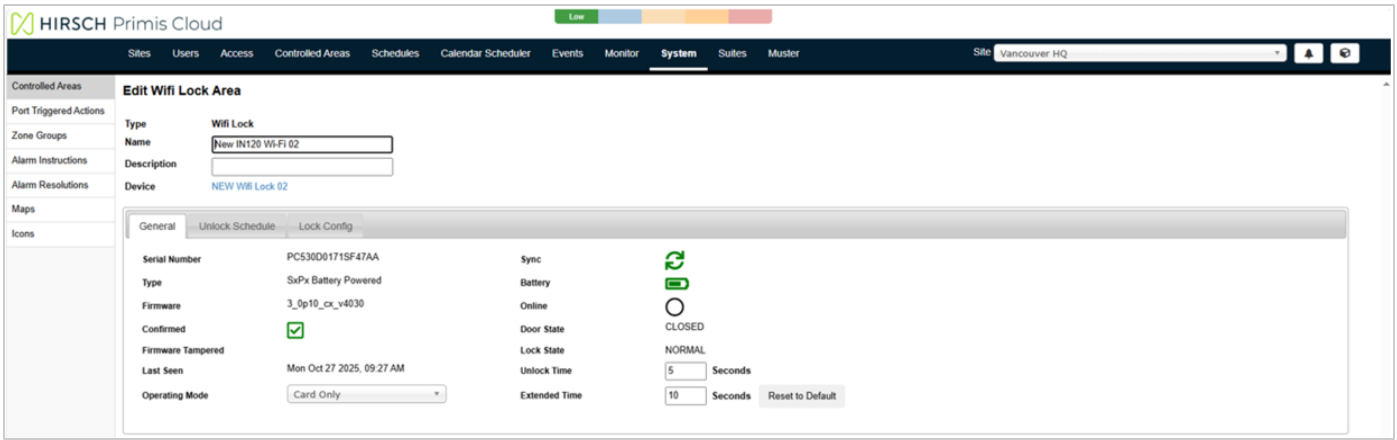
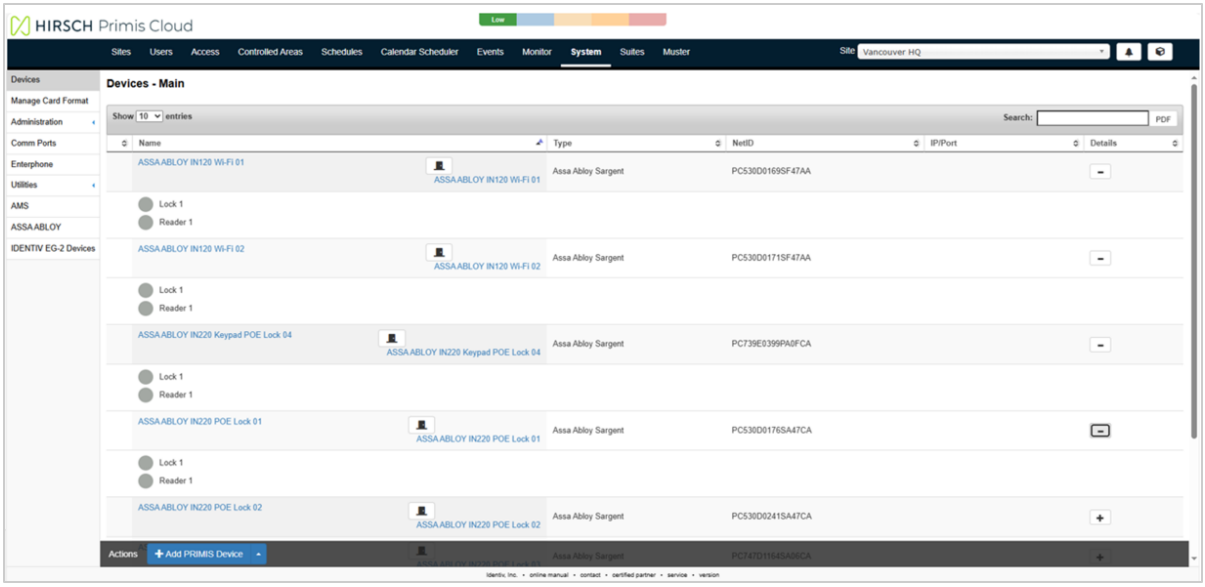


Figure 6: Primis Devices List with ASSA ABLOY Locks



Wi-Fi and PoE Lock Comparison

	IN120 Wi-Fi Lock	IN220 PoE Lock
Brands	Corbin Russwin, Sargent	Corbin Russwin, Sargent
Network	IEEE 802.11b/g/n Wi-Fi	Ethernet, IEEE 802.3af PoE
Power	Battery powered	Powered over the Ethernet cable
Connection to DSR	Checks in on a schedule, or immediately on alarm	Always online
Updates and Events	Sent at the next check-in	Real time
Access Decisions	Made at the lock; continues offline	Made at the lock; continues offline
Status in Primis	Battery level, sync, door and lock state	External power, online, sync, door and lock state
Best For	Doors without network cabling; retrofits	Doors where Ethernet is available

Ordering Information

Part Number	Description
FR-30-40-ASSA	Primis ASSA ABLOY Connector License. One required per DSR server. Includes Primis ASSA ABLOY Single DSR License and One Year SSA. FR-30-40-ASSA-L required for each lock.
FR-30-40-ASSA-L	Primis ASSA ABLOY Lock License. One required for each ASSA ABLOY lock (requires FR-30-40-ASSA DSR license). Includes Primis One Lock License and One Year SSA.

TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE. REVISION DATE: 2026-10-19

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