

Automating Password Rotation & Firmware Upgrade

IoT devices are deployed by organizations to maximize their business, operational and security posture, and are part of the mission-critical environment. The operational teams are facing multiple challenges when managing these devices at scale:

EXCESSIVE OPERATIONAL COSTS



These tasks are currently performed manually - if at all - and are extremely error prone due to interoperability issues. This results in significant time spent, especially at scale.

COMPLIANCE ISSUES

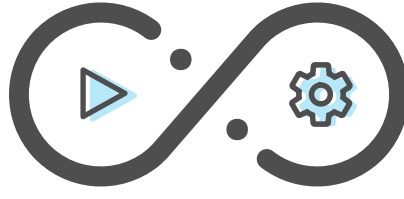


Same as in the IT space, IoT operations require rotating passwords on devices and keeping firmware versions up-to-date or at least without any known vulnerabilities. These complex operations are rarely performed, resulting in significant compliance issues.

ORGANIZATIONAL EXPOSURE



Device credentials are typically weak, reused and rarely changed. Firmware versions are rarely upgraded, even if they have known disclosed vulnerabilities. These shortcomings put the entire organization, assets and data in jeopardy.



Automation is key when handling large-scale IoT deployments

Horizon Automated Password Rotation

Horizon automates password rotation for IoT devices, ad-hoc or as a scheduled operation. This task can be performed across users and devices, and updates the credentials both on the devices and the management systems. This capability ensures compliance within the organizational policy, and provides significant cost and time savings.

Rotate Password ✕

Users
Password
Summary

Please select the password policy

Generate automatically
 Set manually

Password length

Advanced
 Uppercase
 Lowercase
 Numbers
 Symbols

Set the password age

30 days ▼

- 30 days
- 45 days
- 60 days
- 90 days

Back
Next

Password Rotation ✕

Total

Completed 123 out of 123 100%

123 Successful 0 Failed 0 Rollback

Id	Status	Device ID	Device name	Host	Progress	Log
334	✓	acc:80:01...	AXIS-14301-Unit	192.168.2.11	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
212	✓	acc:80:01...	AXIS-14302-Unit	192.168.2.12	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
213	✓	acc:80:01...	AXIS-14303-Unit	192.168.2.13	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
214	✓	acc:80:01...	AXIS-14304-Unit	192.168.2.14	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
215	✓	acc:80:01...	AXIS-14305-Unit	192.168.2.15	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
216	✓	acc:80:01...	AXIS-14306-Unit	192.168.3.11	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
217	✓	acc:80:01...	AXIS-14307-Unit	192.168.3.12	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
218	✓	acc:80:01...	AXIS-14308-Unit	192.168.3.13	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
219	✓	acc:80:01...	AXIS-14309-Unit	192.168.3.14	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
220	✓	acc:80:01...	AXIS-14310-Unit	192.168.3.15	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	

Abort
Done

Horizon Automated Firmware Upgrade

Horizon automates firmware upgrades for one or multiple IoT devices, ad-hoc or as a scheduled task. Administrators can manage and approve upgrade paths while operators can put them in action. Horizon supervises the entire process, validates completion and performs roll-back, if required.

Upgrade Firmware ✕

Total

Completed 3 out of 11 27%

3 Successful 0 Failed 1 Rollback

Id	Status	Device ID	Device name	Host	Progress	Log
174	✓	acc:80:01...	AXIS-14307-Unit	192.168.2.11	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
175	✓	acc:80:01...	AXIS-14308-Unit	192.168.2.12	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
176	✓	acc:80:01...	AXIS-14309-Unit	192.168.2.13	<div style="width: 100%; height: 10px; background-color: #00a0e3;"></div>	
177	⚠	acc:80:01...	AXIS-14321-Unit	192.168.2.14	<div style="width: 20%; height: 10px; background-color: #00a0e3;"></div>	Firmware upload failed, rollbacked to version 8.30
178	⌚	acc:80:01...	AXIS-14322-Unit	192.168.2.15	<div style="width: 10%; height: 10px; background-color: #00a0e3;"></div>	
179	⌚	acc:80:01...	AXIS-14323-Unit	192.168.3.11	<div style="width: 10%; height: 10px; background-color: #00a0e3;"></div>	
180	⌚	acc:80:01...	AXIS-14324-Unit	192.168.3.12	<div style="width: 10%; height: 10px; background-color: #00a0e3;"></div>	
181	⌚	acc:80:01...	AXIS-14325-Unit	192.168.3.13	<div style="width: 10%; height: 10px; background-color: #00a0e3;"></div>	
182	⌚	acc:80:01...	AXIS-14326-Unit	192.168.3.14	<div style="width: 10%; height: 10px; background-color: #00a0e3;"></div>	
183	⌚	acc:80:01...	AXIS-14327-Unit	192.168.3.15	<div style="width: 10%; height: 10px; background-color: #00a0e3;"></div>	

Abort
Done

Upgrade Paths Add Path

Status ▼ Vendor ▼ Model ▼ Firmware version ▼ Target firmware ▼ ✕ Clear all

Status	Type	Vendor	Model	Management platform	Firmware version	Target firmware	Creation date	
⊞	Approved	IP Camera	Axis	P3225-LV Mk II	Security Center 5.8	8.40.3.2	9.70.15	01-06-2020 06:08:19
⊞	Approved	IP Camera	Axis	P3225-LV Mk II	Security Center 5.8	6.35.2.3	8.50.1	01-06-2020 06:08:19
⊞	Pending	IP Camera	Axis	P3225-LV Mk II	Security Center 5.8	6.55.2	7.40.1	01-06-2020 06:08:19
⊞	Pending	IP Camera	Axis	P3225-LVE Mk II	Security Center 5.8	6.55.2	8.30.1	01-06-2020 06:08:19
⊞	Pending	IP Camera	Axis	P3225-LVE Mk II	Security Center 5.8	8.40.3.2	8.50.1	01-06-2020 06:08:19
⊞	Approved	IP Camera	Axis	Q3708-PVE	Security Center 5.8	6.55.6	6.55.7.1	01-06-2020 06:08:19
⊞	Approved	IP Camera	Axis	Q3708-PVE	Security Center 5.8	5.95.4	6.55.6	01-06-2020 06:08:19
⊞	Approved	IP Camera	Axis	M3057-PLVE	Security Center 5.8	8.50.1	9.70.15	01-06-2020 06:08:19
⊞	Approved	IP Camera	Axis	M3057-PLVE	Security Center 5.8	9.50.1	9.70.15	01-06-2020 06:08:19
⊞	In Progress	IP Camera	Axis	M3044-WV	Security Center 5.8	8.40.3	9.80.1	01-06-2020 06:08:19
⊞	In Progress	IP Camera	Axis	M1065-LW	Security Center 5.8	8.40.1	9.70.15	01-06-2020 06:08:19

These automation capabilities are an integral part of the Horizon solution which provides risk detection, predictive maintenance and automated operations for IoT devices.

Using Horizon, organizations can manage all IoT operations in one consolidated view.



Significant Cost Savings



Ensure Compliance



Protect Your Organizations

Contact us to learn how SecuriThings can help you manage IoT operations at scale, in a secure and cost-efficient manner.