

# Facilitate Proactive Cyber Asset Patching

AssurX Patch Management helps the Energy & Utility industry manage critical infrastructure protection as part of a defense in depth strategy. It proactively guides the collection, analysis and policy-based delivery of patches to a diverse range of endpoints across classified information technology (IT) and operational technology (OT) assets. Patch Management is the centralized point of truth required for today's converged environments.



## A SINGLE SOLUTION FOR PATCHING COMPLIANCE

The AssurX Patch Management solution solves the security challenge of managing cyber asset patching across IT, OT and IoT infrastructures for effective risk mitigation and NERC CIP-007 compliance with BES Cyber System Security. Patch Management can be integrated with the AssurX Energy and Utilities Management solution to further improve compliance posture by enabling entities to provide evidence of patching for critical infrastructure and Industrial Control Systems (ICS).

AssurX Patch Management increases your control of technology system cybersecurity across the entity. It facilitates the centralized management of enterprise cyber assets including Electronic Access Control or Monitoring Systems (EACMS), Physical Access Control Systems (PACS) and Protected Cyber Assets (PCA) from assessment and deployment, through tracking software and firmware patching and reporting.

Patch Management enables IT and OT technology managers to create a single, unified patching process aligned with reliability standards. The result is a practice that engages all necessary people in a collaborative, proactive cyber asset patching system driven by a controlled set of workflows.

## PATCH MANAGEMENT SUBPROCESSES

**Tracking:** Begin with an asset repository for any asset that has software or firmware, any kind of intelligence or any internet connectivity. The asset list can be created in AssurX or imported from an external system. One system allows an organization to classify risk levels for all assets, enabling efficient patching based on severity.

**Evaluation:** Maintain asset baseline including information on software, firmware, patches, and any desired asset properties. For each patch cycle or as needed, assign patch source review tasks for known software/firmware or seamlessly integrate with a patch discovery service.

**Mitigation:** Records the Responsible Entity's plans and actions to mitigate the vulnerabilities addressed by each security patch and a time frame to complete the mitigations.

## DASHBOARDS

The Patch Management Dashboard is the main information center for the Patch Management system. View up-to-date status, access relevant data, demonstrate compliance and ensure nothing is overlooked. Dashboard features allow users to drill down to view patch system records, assets, installed software, patch source review and patch installation tasks.

Dashboards and metrics provide full visibility into the state of IT/OT cyber asset patching and where immediate action may be required for effective risk mitigation and minimizing cyber threats. Filters provide the ability to quickly find desired records. Clicking a link displays the properties of each type of record.

## BENEFITS OF THE ASSURX PATCH MANAGEMENT SOLUTION:

- + Minimize security risk and performance issues by controlling the patching process.
- + Maintain a true asset inventory and insights into your network's state of security.
- + Bridge the gap between IT/OT patching with a harmonized approach.
- + Provide thorough evidentiary collection for compliance validation.
- + Achieve greater ROI from your existing security solutions.
- + Ensure vigilance for proprietary or ad-hoc assets that are not accounted for in the IT/OT management framework.

Patch Source Review Dashboard Display

PSR ID	Software ID	Software Type	Software Name	Software Version	Vendor Name/Manufacturer	Ad-Hoc PSR	Patch Cycle Label	Review Source	Security Patch Discovered?	Dept	Assignee	Due Date	Status
4	1264	Application	Firefox 44.0.2	44.0.2	Mozilla	No		FoxGuard	Pending	AssurX	Dave Jones	04/25/2018	Due > 2 weeks
5	1265	Application	Internet Explorer11	11.504.15063.0	Microsoft Corporation	No		AssurX	Pending	AssurX	Dave Jones	04/25/2018	Due > 2 weeks
6	1266	Firmware	SEL-387-0	R011	Schweitzer Engineering Laboratories, Inc. (SEL)	No		External	Pending	AssurX	Dave Jones	04/25/2018	Due > 2 weeks

Patch Installation Task Dashboard Display

Task ID	Asset ID	Software ID	Patch ID	Asset Name	Software Name	Patch Filename	Patch Description	Dept	Assignee	Due	Status
7	799	1264	1729	GO_CROSSBOW_SRV_2	Firefox 44.0.2	57.0.2-64	Mozilla - Firefox - 57.0.2.64-bit	AssurX	Dave Jones	4/9/2018	Closed
8	799	1264	1732	GO_CROSSBOW_SRV_2	Firefox 44.0.2	57.0.4-64	Mozilla - Firefox - 57.0.4.64-bit	AssurX	Dave Jones	4/10/2018	Closed
9	799	1264	1731	GO_CROSSBOW_SRV_2	Firefox 44.0.2	57.0.3-64	Mozilla - Firefox - 57.0.3.64-bit	AssurX	Dave Jones	4/24/2018	Due within 2 weeks
11	799	1264	1733	GO_CROSSBOW_SRV_2	Firefox 44.0.2	57.0.4-64	Mozilla - Firefox - 57.0.4.64-bit	AssurX	Dave Jones	4/24/2018	Due within 2 weeks
12	799	1264	1733	GO_CROSSBOW_SRV_2	Firefox 44.0.2	57.0.4-64	Mozilla - Firefox - 57.0.4.64-bit	AssurX	Dave Jones	4/24/2018	Due within 2 weeks
13	799	1264	1732	GO_CROSSBOW_SRV_2	Firefox 44.0.2	57.0.4-64	Mozilla - Firefox - 57.0.4.64-bit	AssurX	Dave Jones	4/27/2018	Due > 2 weeks

