

AGENDA

Market Trends

Customer Panel



Dragos Platform



ENABLING SECURE DIGITAL TRANSFORMATION



"Industrial companies must balance investment in digitizing operations with greater exposure to malicious cyberthreats." May 2021









First 6 Months of 2021 Compared to FY 2020

- Vulnerabilities and advisories released at ~2X the rate of 2020
 - Vulnerabilities: 793 in first half '21 v 703 CY '20
 - Advisories: 230 in first half '21 v 253 CY '20
- Advisories with errors are lower so far in '21
 - 35% in first half '21 v 43% CY '20
- Advisories with or without a patch lack mitigation advice
 - 85% in first half '21 v 64% in CY '20





Customer Panel

- James Sumpter
 - VP of IT Operations and Security, Boardwalk Pipelines
- Shon Gerber
 - CISO, INVISTA, a subsidiary of Koch Industries
- Michael Ball
 - VP and CSO, Berkshire Hathaway Energy

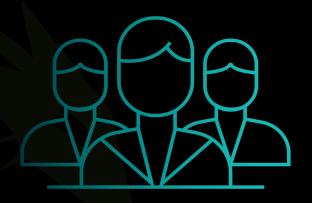








THE DRAGOS DIFFERENCE - OUR PEOPLE



























DRAGOS PLATFORM









INVESTIGATION & RESPONSE



VULNERABILITY **MANAGEMENT**





Dragos Platform Release Updates

THE DRAGOS PLATFORM

FOR INDUSTRIAL CYBERSECURITY

DRAGOS PLATFORM







INVESTIGATION & RESPONSE





ICS/OT THREAT INTELLIGENCE

Regular updates for asset visibility, threat and vulnerability detection, and response playbooks

























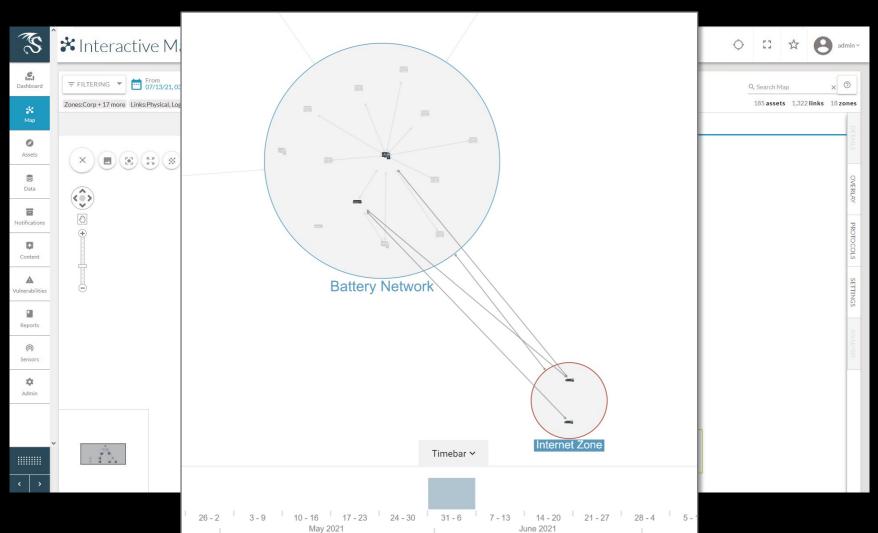


WHAT'S NEW IN THIS RELEASE

- Visual Map Performance Updates
- Asset Explorer → Asset Inventory Management
- Vulnerability Management new!
- UI/UX updates to:
 - Asset Inventory
 - Vulnerability Management
 - includes improved Searching, Filtering, and Group By



PLATFORM INTERACTIVE MAP/TIMELINE VIEW



- Scales to 100,000s of Assets
- Cross-Sensor and Cross-Site visibility
- Timeline and historical views for investigations
- Highly customizable zoning



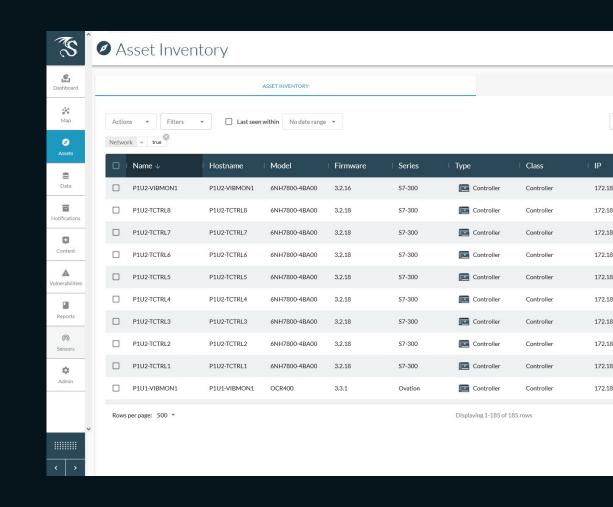
ASSET INVENTORY LIFECYCLE MANAGEMENT

New UX - Asset Inventory, Asset List, and Asset Summary/Details view

Assets will be represented as persistent objects, not bound by time

User Import of assets, attributes, and non-discoverable data

New Asset Bulk Edit workflows





DRAGOS PLATFORM OVERCOMES OT/ICS VULN MANAGEMENT CHALLENGES

Public vulnerability sources (ICS-CERT/NVD) have incomplete or inaccurate data

OEM Vendors often do not provide mitigation guidance

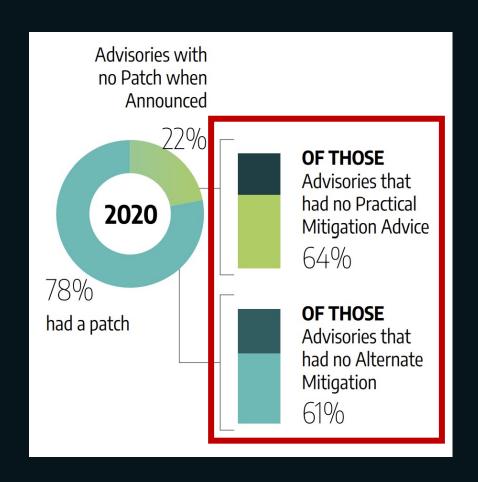
IT-style active scanning is not suitable for production / critical OT systems

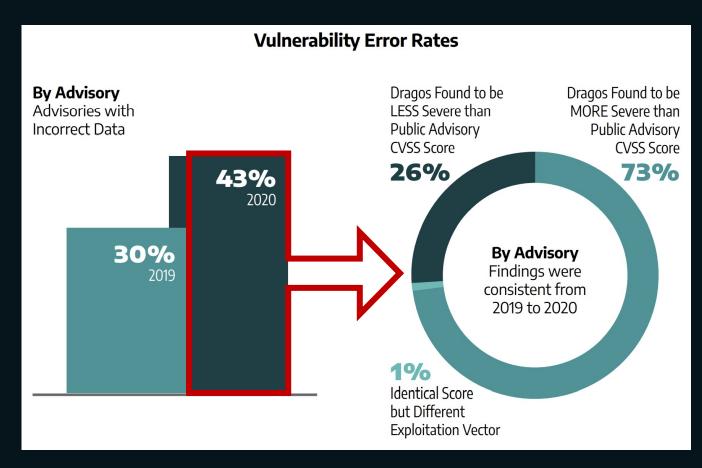
Vulnerability assessment without management leaves issues untracked and attack points



DRAGOS VULNERABILITY INTELLIGENCE

YEAR IN REVIEW 2020

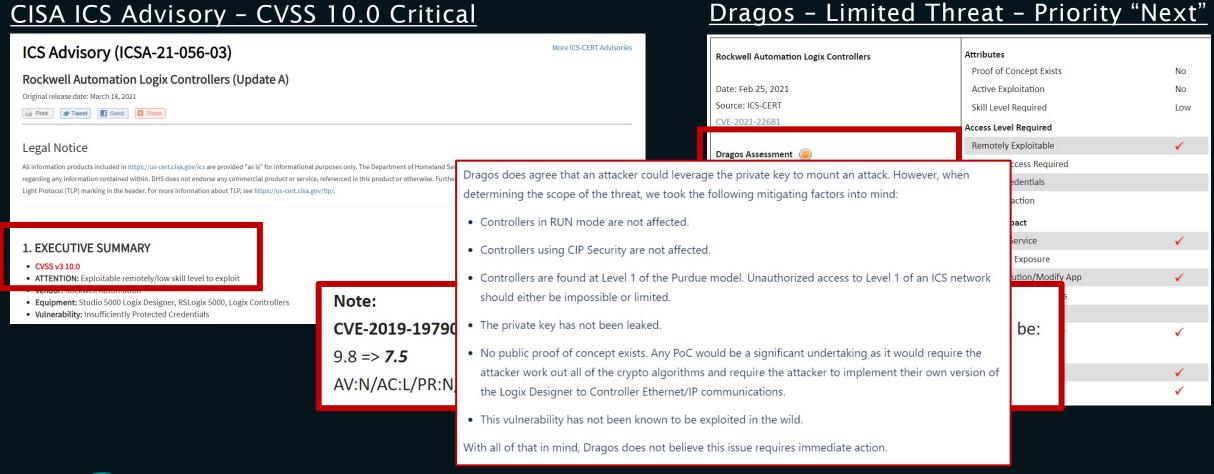






EXAMPLE: DRAGOS FOUND CVE LESS SEVERE

ROCKWELL AUTOMATION LOGIX CONTROLLERS





INVENTORY-BASED VULN ASSESSMENT







Vulnerabilities

Actions



























Sensors







10 Vulnerability Detections 5 Unique CVEs

▼ Filters



Group By



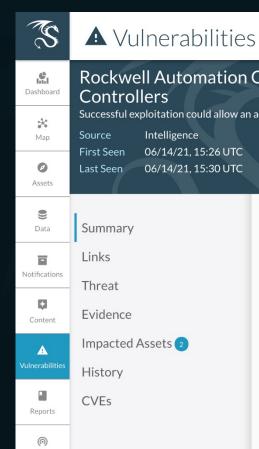
Q Search

96% LOW/MEDIUM CONFIDENCE



SETTINGS

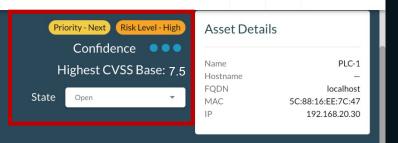
| Title ≎ | CVE ≎ | CVSS ↓ | Risk Level ≎ | Confidence 0 | Priority 0 | First Detected 🌣 | Last Detected 🌣 | Asset 0 |
|---|----------------|--------|--------------|-----------------|------------|------------------|-----------------|-----------------------------|
| Treck TCP/IP Stack | CVE-2020-25066 | 9.0 | High - 4 | High | Next | 2020-12-18 | 2020-12-21 | proc-hmi 10.50.7.99 |
| Schneider Electric Easergy T300 | CVE-2020-7561 | 8.6 | High - 4 | High | Next | 2020-11-19 | 2020-12-11 | seleasergyfrt 10.50.6.32 |
| Siemens Embedded TCP/IP Stack Vulnerabilities (AMNESIA:33) | CVE-2020-13988 | 7.5 | Medium 3 | Low | Never | 2020-12-11 | 2020-12-16 | srvr180frt 10.50.6.180 |
| GE UR Series Relays Denial of Service | CVE-2018-5475 | 6.3 | Critical - 5 | High | Now | 2018-02-26 | 2021-01-06 | ge-ur-001 10.50.7.200 |
| SEL AcSELerator Architect | CVE-2018-10604 | 5.1 | Low - 2 | Low | Next | 2020-11-25 | 2020-11-30 | selsvrfrtA 10.49.6.44 |
| OSIsoft PI Interface for OPC XML-DA | CVE-2013-0006 | 4.2 | High - 4 | Medium • • • | Next | 2013-01-09 | 2020-11-20 | historian-frt 10.41.0.10 |
| WECON PLC Editor | CVE-2020-25177 | 4.1 | High - 4 | Medium | Next | 2020-12-01 | 2020-12-02 | plc-srvr-ft 10.41.0.11 |
| Netlogon Vulnerability 'Zerologon' | CVE-2020-1472 | 3.8 | Critical - 5 | High | Now | 2020-08-17 | 2020-12-24 | winsvr0456 10.41.1.12 |
| HMS Networks Ewon Flexy and Cosy | CVE-2020-16230 | 2.1 | Medium 3 | High | Never | 2020-09-18 | 2020-12-23 | hms88frt-a 10.11.48.9 |
| Cisco IOS XR Software DVMRP Memory Exhaustion | CVE-2020-3566 | 2.0 | High - 4 | High | Next | 2020-08-29 | 2020-09-04 | router-frt-proc |





06/14/21, 15:26 UTC Published 03/02/21, 00:00 UTC

CVE-2020-6998



Summary

Description

Successful exploitation could allow an adversary to send a malicious CIP packet, causing a DoS condition and interrupting communication between the controller and other products.

Dragos Guidance

Update to a patched version, v33.011 or later.

Restrict access to ports UDP/2222, TCP/44818. and UDP/44818. Ensure controllers are not directly connected to the internet.

| Port | # Source IPs | Actions |
|-------|--------------|---------|
| 2222 | 7 ? | * |
| 44818 | 12 ? | : |
| | | |

Affected Products

Hardware:

| | Service Control of the Control of th |
|------------|--|
| Current: 🖸 | |
| Hardware: | Rockwell Automation, ControlLogix, 1756-L71/B LOGIX5571, 32.11 |
| OS: | |

Rockwell Automation, ControlLogix, 5570, <=33

Product Summary

Rockwell Automation's CompactLogix and ControlLogix are controllers deployed worldwide and commonly seen in the critical manufacturing industry.



Validate that network mitigations are in-place and working correctly



Sensors

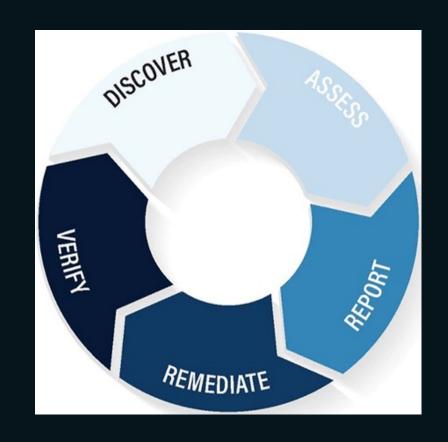
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Admin

VULNERABILITY MANAGEMENT

FUNCTIONALITY AND PROCESSES TO:

- Identify Vulnerabilities in asset firmware, operating systems, applications
- + Prioritize the Vulnerabilities based on active attacks, adversarial tactics, exploits
- + Recommend remediations and mitigations
- + Allow for manual severity changes, asset/process criticality, context definition
- + Track remediations over time, verify fixed remediations, including reopened vulnerabilities
- + Report on current, historical, trends





DISPOSITIONING A VULNERABILITY

Remediation - The vulnerability no longer exists

+ Examples: Patching, uninstalling, reconfiguring, decommissioning

Mitigation - The vulnerability is no longer reasonably exploitable

+ Examples: Compensating controls such as network firewalls, app firewalls, data diodes, network segmentation, air gap

Risk Acceptance - The organization has accepted the risk of this vulnerability

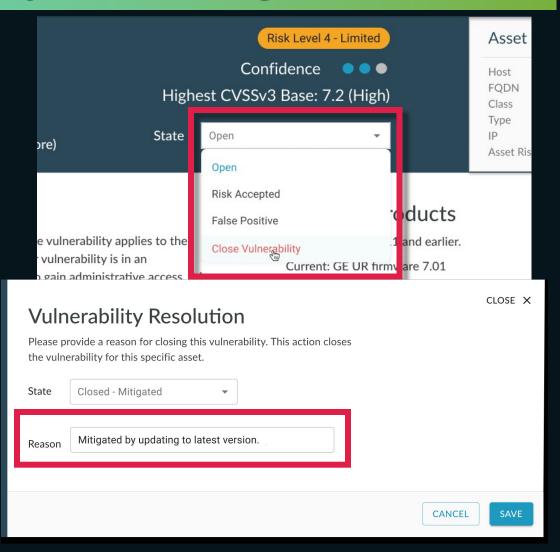
+ Examples: Dragos prioritized as "Never," Operational Risk outweighs Vulnerability Risk



DISPOSITIONING IS KEY TO VULN MANAGEMENT

True Vulnerability
Management requires that all
vulnerabilities are tracked,
not just hidden.

If you aren't tracking disposition, you are only performing Vulnerability Assessment.





DRAGOS VULNERABILITY DIFFERENTIATORS

- We have the most accurate and corrected ICS Vulnerability intelligence in the industry (See: Year in Review 2020)
- 2. Dragos Prioritization and Guidance for all detected vulnerabilities
- 3. Complete vulnerability lifecycle tracking—can be used to track risk acceptance, compensating controls
- 4. Confidence Rating filter out the noise allowing users to focus on what is most impactful to their operations





THANK YOU

Resources

- Year In Review Report : dragos.com/yir
- Vulnerability management: dragos.com/platform/vulnerabilitymanagement/
- Asset management: dragos.com/platform/asset-visibility/

Schedule a demo: dragos.com/request-a-demo/

Webinar on July 29 - MITRE Engenuity ATT&CK® Evaluations for ICS dragos.com/webinars

