

Michigan's 2026 Interoperable Communications Conference



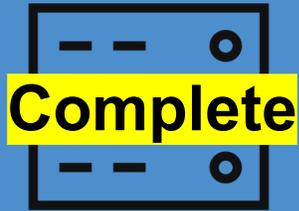
MPSCS Technology & Infrastructure Update

MOTOROLA INFRASTRUCTURE

PLATFORM MIGRATIONS

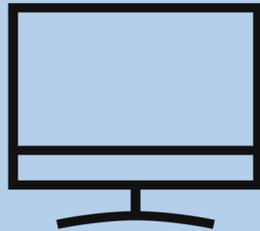


PRIME SITES



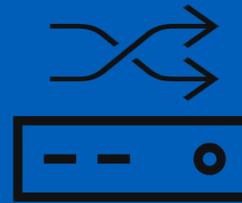
G-SERIES TO
VIRTUALIZED

CONSOLES



MCC TO AXS

CONVENTIONAL
SITE CONTROLLER



GCP to DSC

BASE RADIOS



GTR TO DBR

INFRASTRUCTURE SECURITY

ASTRO Managed Detection and Response

ASTRO TIMELINE

MPSCS Covered Cost

Planned Upg/Outage

SUA or ARR Covered

Potential Local Cost

2024		2025		2026		2027		2028		2029	
1st Half	2nd Half										

MI Deal #19000001544 SUA & Services Contract to 9/30/2029

Infrastructure Security

ASTRO Managed Detection and Response

*A2024.x

*A2026.x

*A2028.x

***Console Software Upgrades
(Extended due to required patches)**

***Console Software Upgrades**

***Console Software Upgrades**

***Dispatch AUXIO Upgrade (A2024.x)**
SDM3000 to MC IoT Edge Upgrade

***Aruba Switch Upgrades**
Upgrade Aruba 2930F to Juniper EX4100

MCC7500 Platform Upgrades (A2030.x)
Upgrade MCC7500 VPM & E Consoles to AXS

***Conventional Channel Gateway Upgrade (A2024.x)**
Upgrade GGM8000 CCGW to MCG8000

Conv Site Controller (A2030.x)
Upgrade GCP8000 CSC to DSC8000 CSC

ARR
MNR Replacement & Redundancy

ARR
Redundant KMF

ARR Project
Simulcast Virtualized Prime Site Deployment

ARR Project
High Tier CEN Deployment

*A2024.x
UPGRADE
LAB

*A2026.x
UPGRADE
LAB

*A2028.x
UPGRADE
LAB

MPSCS Additions (Downriver, Hillsdale, Gratiot, St. Clair)

Expanded System Capacity, Coverage, & User Base



ASTRO TIMELINE

MPSCS Covered Cost

Planned Upg/Outage

SUA or ARR Covered

Potential Local Cost

2030		2031		2032		2033		2034		2035	
1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half	1st Half	2nd Half
		A2030.x UPGRADE				A2032.x UPGRADE					
MCC7500 Platform Upgrades (A2030.x) Upgrade MCC7500 Platform Consoles to AXS											
Conv Site Controller (A2030.x) Upgrade GCP8000 CSC to DSC8000 CSC											
GTR8000 Base Station Upgrades EOS 2032 Upgrade GTR8000 to DBR											
GCP8000 ASR Site Controller Upgrades EOS 2032 Upgrade GTR8000 to DBR8500											
Conventional Mutual Aid Upgrades EOS 2032 Upgrade GTR8000 to DBR											



Aruba 2930F-24 Port & 48 Port Switches



PRODUCT CANCELLATION

Covered by SUA

Milestone	Date
Final Ship for System Add ons	04/30/2025
Last System Release Support	A2024.x
Service Support End (Commercially Reasonable Effort)	12/31/2031

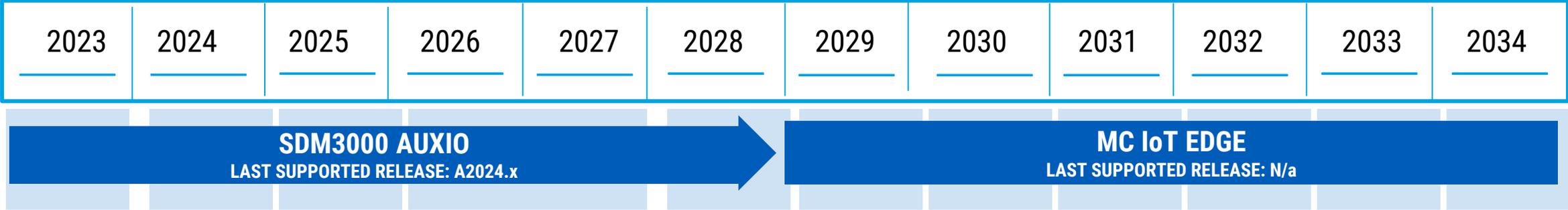


SDM3000 CONSOLE AUX I/O

PRODUCT CANCELLATION



Milestone (BASIC)	Date (BASIC)
Final Order Date for System Expansions	July 1, 2025
Extended Service Support End	December 31, 2028
Last Supported Release	A2024.x



*Covered Under SUA

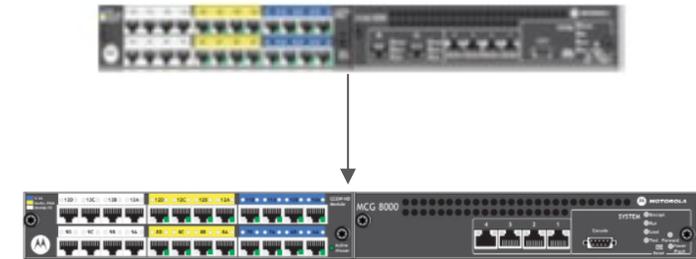
GGM8000 Conventional Channel Gateway



END OF SUPPORT

Milestone		Date	Last Release Support
Support (GGM 8000)	Final Date for Software Support	Q2 2028	A2024.X
	Service Support End Date	11/23/2027	N/A

Function	Replacement	Type
GGM 800 (CCGW) for Conventional Channels	MCG 8000 (A2024.x)	<ul style="list-style-type: none"> NM/Dispatch Sites RF Sites



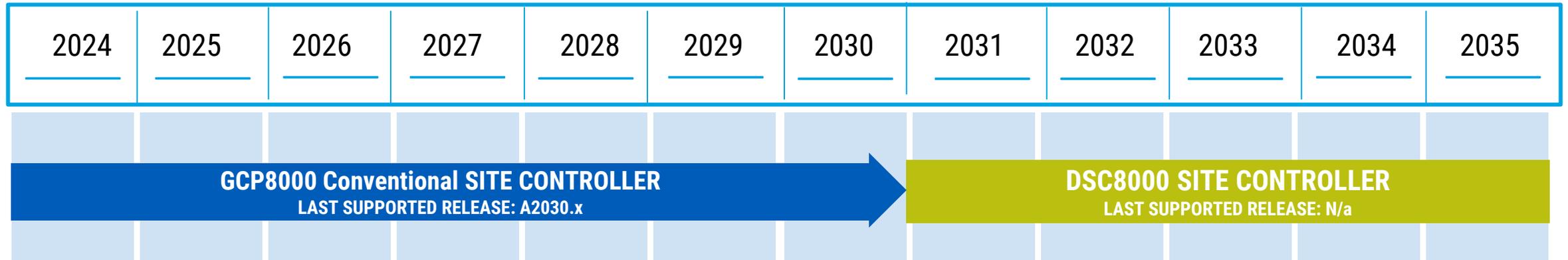
*Covered Under SUA

GCP8000 Dispatch Conventional Site Controller



PRODUCT CANCELLATION

Product	Last New Feature Release	Last System Release Certification	Last Hardware Repair
GCP8000 Conventional Site Controller	ASTRO 2030.x	ASTRO 2030.x	12/31/2030



Fortinet 101E Firewall



END OF SUPPORT

Function	Replacement Product	Last System Release Certification	End of Support
RNI/DMZ Firewall	Juniper SRX 345	ASTRO 2022.x	Q3 2026
Telephony Firewall	Juniper SRX 345	ASTRO 2022.x	Q3 2026
LMP Firewall	Juniper SRX 345	ASTRO 2022.x	Q3 2026
ISSI 8000/CSSI 8000 Firewall	Juniper SRX 345	ASTRO 2022.x	Q3 2026
Internetworking Firewall	Juniper SRX 345	ASTRO 2022.x	Q3 2026

ALLOWED ON SYSTEM DURING A2024.x Upgrade

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
------	------	------	------	------	------	------	------	------	------	------	------



*Covered Under SUA

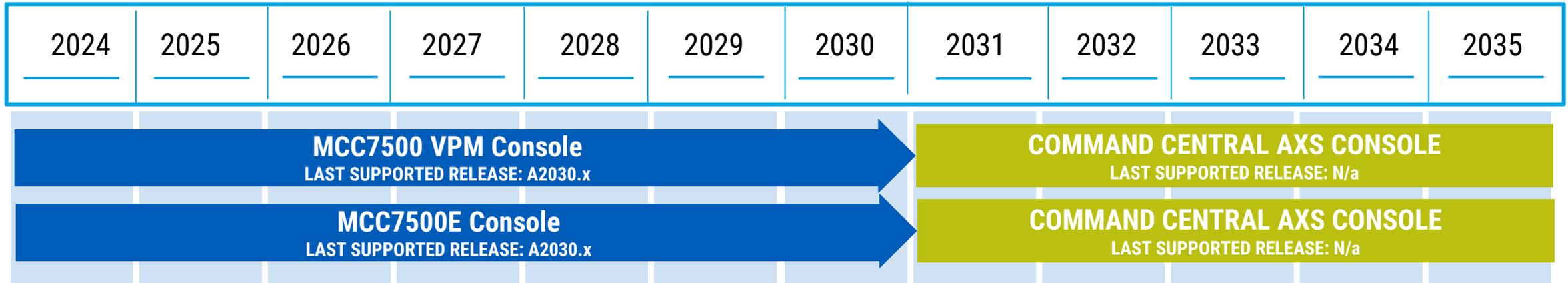
MCC 7500(VPM) & MCC7500E Console



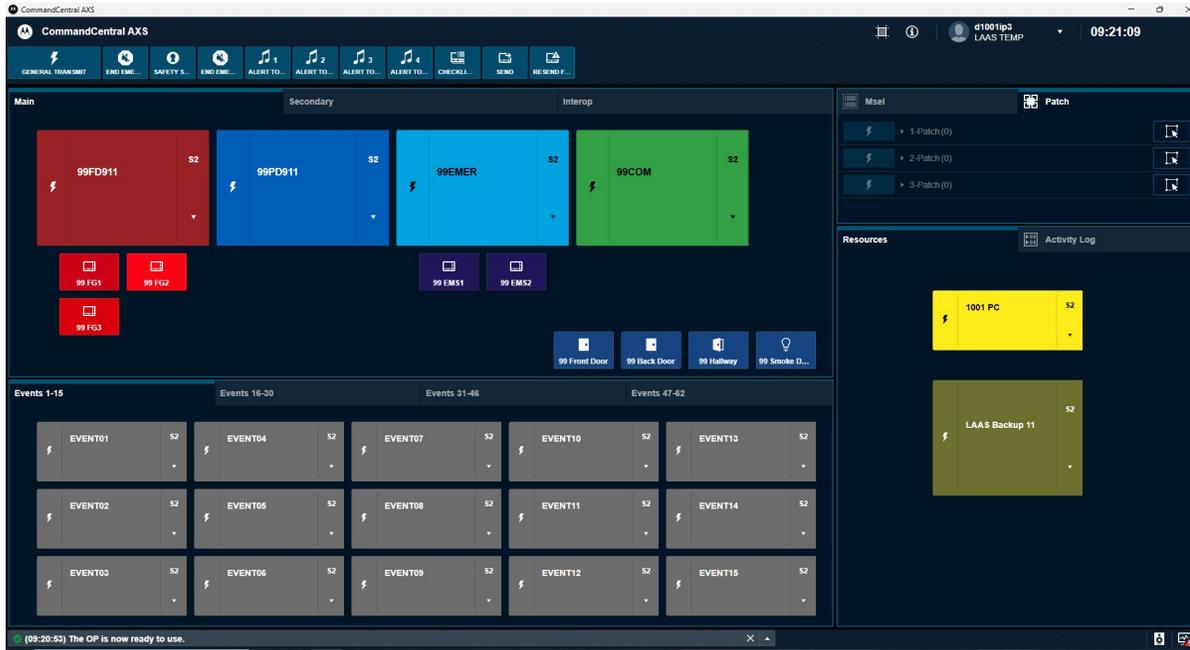
PRODUCT CANCELLATION



Milestone	Date	Last Release Support
Service Support End (Commercially Reasonable Effort)	12/31/2030	A2030.x



AXS Console



- New Interface
- 200 Resources Planned
- USB Microphone (like 7500E)
- USB Speakers (like 7500E)
- Currently under evaluation with LaaS Team in MPSCS Lab



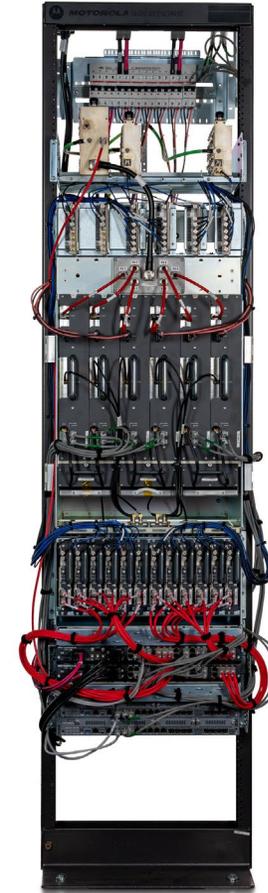
HSM

- Replaces CRYPTTR
- Currently under evaluation with LaaS Team in MPSCS Lab



DBR M12 Multicarrier Site

- Replacement for G Series RF Site Equipment
- Evaluated in MPSCS Lab
- Supports up to 12 channels per rack
- Channel Spacing is 50 kHz per Bank
- Planned in Zones 5 & 6 starting in March 2026
- Implementing with New Integration Projects



Mutual Aid

- Current Configuration
 - GTR8000 Base Stations
 - MLC8000
 - CTI MCN 8000 Server
 - CIB
 - HIB-IP



- Possible Future Options

- DBR
 - Transceiver added to site DBR M12
 - Available Q2 2027
 - Standalone with dedicated DSC8500
 - Available Q4 2027
- D Series Conventional Comparator



Nokia Microwave Roadmap

- Implementing in Standalone mode
 - Directly connects to SAR
- Replaces MSS & MPT
- EAS-V2 End of Life
 - Last Purchase July 2026
- Implementing on New Projects
- Currently researching DC Powered Switches

- UBT-I
 - Indoor
 - Same formfactor as MPT
- UBT-S
 - Fully Outdoor
 - Can mount directly to dish
 - Considering limited deployment
 - Rooftop
 - Water Tower
 - Low Installation Height



Backhaul Software Upgrade

- Network Management Servers
 - Targeting server upgrade completion by Spring 2026
 - No outages for server work
- MPLS Routers
- Microwave Radios
- Site trunking is expected during upgrades of MPLS Routers and Microwave Radios
 - Notifications will be sent out prior to work being performed



MPSCS Network Security

Goal: Protect mission-critical system availability by understanding and managing cyber threats.



What Has MPSCS Done Until Now?

Security is a Primary Focus at MPSCS

- **Security Update Services (SUS)**
 - Constantly applying operating system updates to patch vulnerabilities
- **Defense In Depth**
 - MPSCS add Router/Firewalls further confining allowed traffic on the system
- **Network Communications Center (NCC)**
 - 24 x 7 System Fault Monitoring, troubleshooting, and support
- **Systemwide Risk Assessments (2020-2021)**
 - Identified areas of the network/system where risks may exist so compensating controls could be applied
- **Network Intrusion Detection (IDS)**
 - Adopted technology to inspect traffic flowing through the network
- **Access Control Lists**
 - Refined what traffic is allowed to traverse the MPSCS network
- **Founding Member of the Public Safety Threat Alliance**
 - Consistently informed on attacks on public safety to ensure those same attacks do not affect MPSCS



Public Safety Threat Alliance

Focused Information and Intelligence Sharing



The Public Safety Threat Alliance, is a **Cybersecurity and Infrastructure Security Agency (CISA)-recognized Information Sharing and Analysis Organization**, serves the global Public Safety community as a world-class information and threat intelligence sharing, collaboration and cybersecurity services hub, dedicated to improving Members' cybersecurity posture, defense, and resilience against ever-evolving threats to their no-fail Public Safety mission.



Concentrated

Threat intelligence and information sharing



Capable

Proactive defense solutions for public safety



Committed

Reduce the cybersecurity burden on agencies

MOTOROLASOLUTIONS.COM/PSTA



2025 PSTA US observations

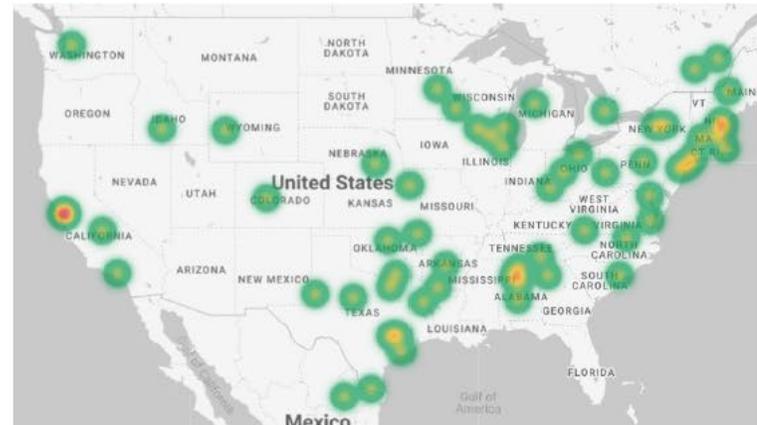
The top takeaways from the first half of the year

More attacks

- **38** cyberattacks against public safety agencies
- **34%** of global attacks
- **-2%** compared to 1H2024

Higher impact

- **12** U.S. mission critical systems crippled by hackers
- **-7%** compared to 1H2024



MANAGED DETECTION AND RESPONSE (MDR)

- MDR is part of Motorola's Managed Security Platform.
- It includes:
 - The ActiveEye security platform which collects, manages, and analyzes security event streams from our network devices and the new ActiveEye Remote Security Sensors (AERSS) nodes that have been installed in each zone core and applicable CEN networks.
 - Endpoint Detection and Response (EDR) application that protects devices like dispatch consoles and servers by continuously monitoring them for suspicious activity and allows us to respond to threats.
 - Motorola provides 24 x 7 monitoring and threat response for the MPSCS.



MDR Dashboard

MOTOROLA SOLUTIONS | ActiveEye | SUPPORT

Dashboard | Dashboard

Security Overview | Automation | Response Times | Credible Threats | User Access

January 2026

Total Alerts	Automation	SOC Investigations	Response	New Threats & Blocks
99,851 Alerts Were Created View Alerts	99% of Alerts Resolved by Automation	42 Manual SOC Investigations View SOC Investigated Alerts	51mins Avg Response Time for Credible Threats	No New Threats 1 Threats Prevented from Running

January Credible Threats

Total Credible Threats
1

Other 1

January Security Cases

Total Cases	P1 Cases	P2 Cases	P3 Cases	P4 Cases
0	0	0	0	0

Ticket	Description	Status
There are no new cases for this month.		

SOC Monitoring On

Alerts Active

Critical	0
High	0
Medium	0
Low	0

Active Cases Pending Input: 0

There are no new, open, or pending cases

Security Advisories

- Oct 31 Spooky WSUSploitiation: Patch the Frightening Unauthenticated RCE in WSUS (CVE-2025-59287)
- Oct 20 Critical Fortra File Transfer Flaw
- Sep 19 NPM Faces another Supply-Chain Attack
- Aug 22 The Threat of Overwhelming Calls: How to Prevent TDoS Attacks
- Aug 11 3 Proven Vulnerabilities in Public Safety Systems & How to Secure Them



MDR Dashboard

- MDR is optimized to protect ASTRO without negatively impacting the system.
- Because we co-manage the MDR system with Motorola, we have full access to the dashboard and reporting tools.

The screenshot displays the MDR Dashboard for MPSCS STATE OF MICHIGAN (ASTRO). The interface includes a navigation sidebar on the left and a main content area. The main content area is titled 'Catalog' and contains two sections: 'My Saved Queries' and 'Preset Investigations'.

My Saved Queries

Name	Shared	Pinned
Connectors and Hosts		
Connectors and Hosts - CEN001 - 2 - 3		
Connectors and Hosts - CEN005		
Connectors and Hosts - CEN065		
Connectors and Hosts - CEN97		
MDR Events - 1 month		
MDR Events - 1 week		

Preset Investigations

- All Services
- ASTRO 25°
- DIMETRA°
- VESTA 9-1-1°
- Directory
- Application
- Cloud Infrastructure
- Endpoint
- Network
- Host
- SIEM



MDR & EDR Provide

MPCS STATE OF MICHIGAN (ASTRO) 14:33 UTC nummerj@michigan.gov SUPPORT

ASTRO Visibility / ASTRO Visibility

SUBNET ENTITY TYPE Download CSV

1-100 of 9,691 results

This table includes all hostnames and IPs discovered within your network and log data from the past 30 days.

Search...

IP(s)	Hostname(s)	Entity Type	Subnet	Hostname/IP Parameters			Oldest Last Seen	
				Zone	Site	Subsite	Network	Logs
10.71.240.194 192.168.32.118 10.71.245.100 10.71.248.123 10.71.245.29 95 more...	z004s058iecon04.nmd58.zone4 z002s054cam01.nmd54.zone2 z004s058iecon03.nmd58.zone4 z b¹ 95 more...						2025-03-31 00:30	2025-01-01 00:00
10.5.224.241 10.5.224.240		Core Backhaul Switch	Alternate Core Backhaul Management Subnet	5			2025-10-19 10:34	2025-06-06 21:22
10.7.224.240 10.7.224.241		Core Backhaul Switch	Alternate Core Backhaul Management Subnet	7			2025-10-19 23:32	2025-06-06 21:22
10.2.224.241 10.2.224.240		Core Backhaul Switch	Alternate Core Backhaul Management Subnet	2			2025-10-19 10:33	2025-06-06 21:22
10.3.224.241 10.3.224.240		Core Backhaul Switch	Alternate Core Backhaul Management Subnet	3			2025-10-19 10:34	2025-06-06 21:22
10.4.224.240 10.4.224.241		Core Backhaul Switch	Alternate Core Backhaul Management Subnet	4			2025-10-19 10:33	2025-06-06 21:22
10.6.224.240 10.6.224.241		Core Backhaul Switch	Alternate Core Backhaul Management Subnet	6			2025-10-19 10:49	2025-06-06 21:22



MDR & EDR Provide

- Visibility into security events on the network in near real time.
 - Including:
 - Login Failures
 - Firewall Configurations Changes
 - User Account changes
 - Abnormal Network Traffic
- The information is aggregated into an easy-to-use dashboard.



ASTRO 25®

Activity from Motorola Solutions Support Teams

- Firewall Configuration Changes
- Firewall Login Failures
- Firewall Login Successes
- Inbound Traffic from Public IP Addresses
- Outbound Traffic to Public IP Addresses
- Windows: Account Lockouts
- Windows: Deleted or Disabled Accounts
- Windows: Failed Logins
- Windows: Successful Logins
- Windows: User Account Changed



MDR Project Status

- AERSS Installs:
 - All zones completed.
- Zone Core EDR Installs:
 - Zone 1 - 7 completed.
- EDR installs in dispatch centers:
 - Ongoing as part of 2024.1 upgrade.
 - Currently 492 of 772 consoles upgraded.
- SOM System Security Plan (SSP):
 - In Stage 6 (Risk Assessment).

Phase	Task #	Task	Dependencies	Progress	Date Required	ATP % Passed	Notes
Prep	1	DDP Acceptance	N/A	100%	2/14/25	N/A	DDP Final Review meeting 02/03. Will provide 1 week review time for approval
	18	PATO Complete	N/A	60%	3/7/25	N/A	Updated to 03/07 as Required date, to avoid impact to schedule. 03/07 is final acceptance by MPSCS; will provide 1 week review time. Updated from 02/27
	2	ATP Acceptance	1	25%	3/7/25	N/A	
Phase 1 (Zone Core AERSS and Internet connectivity)	3	Zone 1 AERSS work	1, 2, 18	94%	3/10/25 thru 03/14/25		AERSS Install Complete 03/10 thru 03/12. CEN 4 will be moved to Phase 3
	4	Backhaul Enablement	N/A	100%	02/27/25		RFO submitted and SAR change scheduled for 02/27/25. All MPLS changes for 7 Zones, will be implemented at one time. MPSCS will mute or shutdown appropriate ports to mitigate the alarms. MPSCS reviewing Testing Strategy for Backhaul. This work was completed on 03/03/25
	5	Zone 3 AERSS work	1, 2, 4, 18	100%	04/07/25 thru 04/08/25		Install completed, Remote access investigation ongoing
	6	Zone 2 AERSS work	1, 2, 4, 18	100%	05/06 thru 05/07		RFC Submitted on 04/15 and Approved on 04/22
	7	Zone 4 AERSS work	1, 2, 4, 18	100%	Completed on 06/03 thru 06/04		RFC approved for 06/03 thru 06/04
	8	Zone 5 AERSS work	1, 2, 4, 18	100%	Completed 05/19 thru 05/20		RFC approved for 05/19 thru 05/21
	9	Zone 6 AERSS work	1, 2, 4, 18	100%	Completed on 05/21 thru 05/22		RFC approved for 05/21 thru 05/22
	10	Zone 7 AERSS work	1, 2, 4, 18	100%	05/07 thru 05/08		RFC Submitted on 04/15 and Approved on 04/22
Phase 2 (ED)	21	EDR Install on Dispatch Consoles	18	18%	DASHBOARD - Dispatch Center Upgrade Schedule		Link to Van Oler's - Master Dispatch Center Scoreboard
Phase 3 (EDR at zone cores)	11	Zone Core 1 EDR & CEN AERSS HOT Spare	3, Z1 upgrade, 18	89%	Completed on 09/11		EDR Install Complete on Zone 1 Core - CEN 5 Spare Install Complete, CEN 4 AERSS pending TNCT Update work. Syslog on IMW pending IMW Upgrade
	12	Zone Core 2 EDR + CEN Expansion + 2 CEN AERSS	5, Z2 upgrade, 18	100%	Completed on 10/10		EDR Install Complete on Zone 2 Core - CEN Hot Spare Install Complete
	13	Zone Core 3 EDR + CEN Expansion + 2 CEN AERSS	6, Z3 upgrade, 18	0%	Scheduled for 10/13 thru 10/16		Installation Ongoing 10/13 thru 10/16
	14	Zone Core 4 EDR + CEN Expansion + 2 CEN AERSS	7, Z4 upgrade, 18	0%	Proposed for 10/27 thru 10/30		RFC Approved
	15	Zone Core 5 EDR & CEN AERSS HOT Spare	8, Z5 upgrade, 18	100%	Completed on 09/18		EDR Install Complete on Zone 5 Core - CEN Hot Spare Install Complete
Phase 3 (EDR at zone cores)	16	Zone Core 6 EDR & CEN AERSS HOT Spare	9, Z6 upgrade, 18	100%	Completed on 09/24		EDR Install Complete on Zone 6 Core - CEN Hot Spare Install Complete
	17	Zone Core 7 EDR & CEN AERSS HOT Spare	10, Z7 upgrade, 18	100%	Completed on 10/01		EDR Install Complete on Zone 7 Core - CEN Hot Spare Install Complete
Post Deploy	19	ATO Complete	18				
	20	Training	N/A		SOC welcome - 04/10/25AE 101 - 04/14/25AE 102 - 04/21/25		Additional Training will be scheduled if required.



MDR What's Next?

- Completion of EDR installs on all dispatch consoles and other hosts.
- Completion of SOM SSP to receive Authority To Operate (ATO).
- D Series support in late 2026.



Shelter Lifecycle Projects

- Generator Replacements
- HVAC Replacements
- Shelter Restoration
- Roof Repair or Re-Sealing



Generator Replacement

- MPSCS is replacing 30-year-old Generac generators with Gillette Generators starting in Zones 5 & 6
- The new Gillette generators will come with the Deep Sea Digital Microprocessor Controller
- With the new generators MPSCS will be able to repair, reprogram setting



Tower Lifecycle

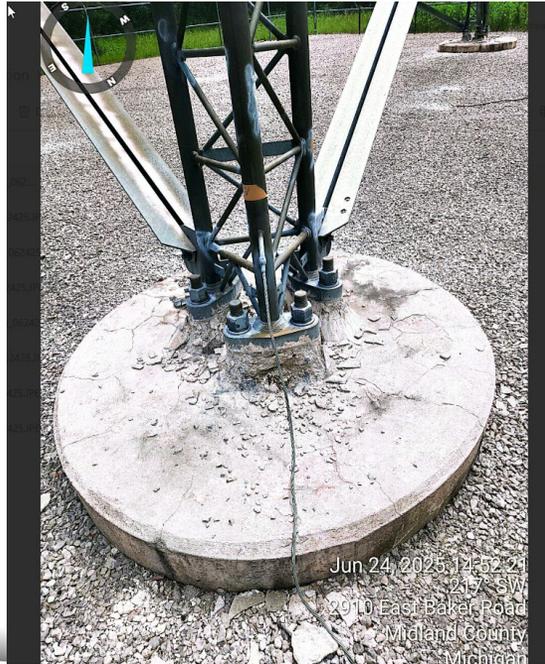
- Guy Towers: Guy Anchor Inspections
- Safety Climb Replacement
- Tower Lights
- Ice Shield Replacement
- Foundation repair/sealant
- Guy Towers: Plumb and Tension
 - MPSCS is doing a three-year PM on all guy towers unless other events occur



Bombay 3102- Foundation Repair

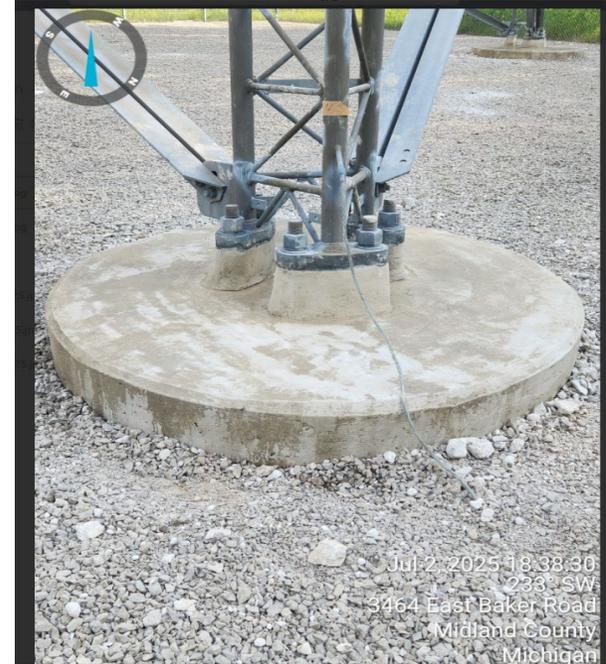
Before Photos

- Tower Foundation before Elephant Armor and Surface Armor or Vetro Fluid



After Photos

- Tower Foundation after Elephant Armor and Surface Armor or Vetro Fluid



Tower Foundation, Shelter Restoration, and Roof Products

The World's Most Amazing Cementitious Repair and Overlay Product!

Elephant Armor® DOT Industrial Grade Mortar Technical Data Sheet

DESCRIPTION

Elephant Armor® is a single component, cementitious, fiber based, medium to fast setting, zero polymer, repair and overlay engineered ductal mortar. In addition to a mechanical bond, our fiber creates a fully engaged molecular bond within our patented mortar matrix, providing extremely high tensile and flexural strength. It can be placed with a textured roller (preferred method) or traditional placement tools.

FEATURES / BENEFITS:

- Fiber reinforced: Superior flexural and tensile strength as thin as ¼".
- High ductility, allowing the overlay or repair to **FLEX without Failure**.
- Resists de-icing salts, freeze/thaw.
- Superior tensile strain capacity over other cement based products for improved crack resistance.
- Superior bond strength to that of other fiber and acrylic based mortars.
- Ideal as a structural underlayment.
- Prevents the propagation of existing cracks through the surface.
- Highly impermeable and abrasion resistant.
- Unparalleled as a stampable overlay.

SHELF LIFE

2 years in original unopened package if stored in a humidity controlled environment. Cannot be exposed to moisture.

PACKAGING

- 10 lb (4.5 kg) plastic pails
- 50 lb (22.7 kg) plastic lined bags

COVERAGE/YIELD

A 50 lb (22.7kg) bag of **Elephant Armor® Mortar** will yield approximately 0.5 ft³ (0.014 m³) of material.

Applied at the following thicknesses, one 50 lb (22.7 kg) bag of **Elephant Armor® Mortar** will cover:

- ¼" (6.3mm) – 18.75 ft² (2 m²)
- ½" (12.7mm) – 9.3 ft² (1 m²)

Note: Coverage rates are approximate

PRIMARY APPLICATIONS

Walkways, curbs, ramps, slabs, spalls, cracks, bridges, ICF walls, parking structures, tunnels, dams, industrial plants or anywhere a high strength concrete repair mortar is required.

Structural monolithic underlayment or overlay for interior and exterior applications.

TECHNICAL INFORMATION – Material Properties @ 75°F (24°C)

Compressive Strength psi ASTM C109

4 hrs 3,520 (24.3 MPa) 1 day 4,140 (28.5 MPa)
7 days 5,970 (41.2 MPa) 28 days 6,870 (47.4 MPa)

Split Tensile Strength psi ASTM C496

7 days 735 (5.1 MPa)
28 days 875 (6 MPa)

Flexural Strength psi ASTM C 947

7 days 1439 (9.9 MPa)
28 days 1544 (10.6 MPa)

Modulus of Elasticity, ksi ASTM C469

(ASTM C39 for compressive strength)

7 days 2,550 ave. comp. strength = 4,700 psi (32.4 MPa)
28 days 2,650 ave. comp. strength = 6,110 psi (42.1 MPa)

Shrinkage ASTM C 928/ASTM C157

28 days stored in water % 0.018
28 days stored in air % 0.017

Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration ASTM C 1202

665 Charge Passed (coulombs)
Very Low Chloride Ion Penetrability

Set Times ASTM C 266

Initial set approx. 30 to 45 min
Final set approx. 1 to 2 hr

Bond Strength psi. ASTM C 882

1 day avg. 1233 (8.5 MPa)
7 days avg. 2026 (14 MPa)



Surface Armor™ System

The Ultimate Thin-mil Concrete & Asphalt Resurfacing System



Surface Armor™

Elephant Armor® Primer

Ecobeton-USA® Vetrofluid®

Features and Benefits

- Fills and hides small spalls and cracks.
- Brings surfaces back to a 'like new' appearance.
- Significantly increases lifecycle of applied surface.
- Accepts liquid and powder pigments.
- Can be finished smooth or textured.
- Fast and easy to apply.
- Interior and exterior use, including drive surfaces.
- Can be applied over concrete or asphalt.
- Can be applied to vertical surfaces.
- Extremely abrasion resistant.

GST International's Surface Armor™ System is a polymer modified, thin-mil single component, two-coat cement based resurfacing system for use on existing concrete or asphalt surfaces. Surface Armor™ contains an ultra-fine aggregate and can be applied as a smooth or textured finish. Surface Armor™ can be applied with a roller, trowel, GST Squeegee Trowel or most types of spray equipment.

Surface Armor™ is a structural micro-topping for resurfacing concrete and asphalt, including heavy vehicular applications. Surface Armor™ readily accepts liquid and powder pigments. For best results when adding a pigment, do a test on a small area to ensure desired tint and tone.

Surface Armor™ can also accept paint after installation and the final application of Ecobeton®- USA Vetrofluid®.

The Surface Armor™ System includes the Surface Armor™, EA Primer and the Ecobeton®- USA Vetrofluid®.

The Surface Armor™ System requires the application of Ecobeton®- USA Vetrofluid® which allows it to sustain heavy use, including vehicular traffic.

For more information on Ecobeton® Vetrofluid, visit www.ecobeton-usa.com

This product is made from the finest raw materials available and manufactured to proven formulation under strict quality control for its intended use. However, results obtained with the use of this product under a variety of conditions may depend on circumstances beyond our control. GST International, Inc. (including the seller thereof) warrants only that its products will be free from defects in materials. GST International, Inc.'s (including the seller thereof) sole obligation, and the purchaser's (including the person using or benefiting from its use) sole and exclusive remedy in the event of a defect covered by the foregoing warranty, shall be, at GST International, Inc.'s discretion, to (a) replace the defective product, or (b) refund to the purchaser the purchase price paid for such defective product. There are no warranties other than the limited express warranty provided above. In no event shall GST International, Inc. (or the seller of its products) be liable for incidental or consequential damages resulting or arising from the use of its products.

PATENTED

Surface Armor™ is ideal for filling minor cracks and spalls, resurfacing sidewalks, driveways, warehouse floors, loading docks, bridges, airports, malls and much, much more.



An easy, one-time, permanent application of Ecobeton-USA Vetrofluid® densifies, strengthens, and protects all concrete from water penetration, chemical degradation, and biological intrusion while substantially improving abrasion resistance. Vetrofluid® is 100% green with zero VOC & is user-friendly.

The Ecobeton formula combines our proprietary catalyst with select silicates allowing the product to penetrate existing and new concrete on average 1-½" to 3", sealing the pores and becoming a permanent part of the internal concrete matrix. Ecobeton Vetrofluid® permanently protects all types of concrete from degradation, dramatically increasing its lifespan, and making your project both fiscally and environmentally responsible.

Properties

Ecobeton Vetrofluid® prevents water intrusion into concrete when applied to either the positive or negative side withstanding pressure of 200 PSI. It is a permanent and definitive treatment.

Ecobeton Vetrofluid® provides concrete with extraordinary resistance to freeze and thaw cycles, chlorides, sulfates, and de-icing salts attacks.

Ecobeton Vetrofluid® seals concrete pores, blocking the carbonization of steel and the penetration of chlorides, providing a stable alkaline environment over time and protecting the reinforcing steel.

Ecobeton Vetrofluid® is approved for use over open waterways, contact with drinking water.

Ecobeton Vetrofluid® provides concrete with excellent resistance to chemical attacks.

Ecobeton Vetrofluid® improves concrete heat resistance, to the physical limits of the treated concrete.

Ecobeton Vetrofluid® accepts painting and marking and is compatible with other finishes and overlays.

Ecobeton Vetrofluid® is an odorless, colorless, and non-toxic product.

Technical Features

Composition	Proprietary blend of catalyzed selected silicates in solution
Expiry	36-months with unbroken seal.
Flammability	Not flammable
Organic properties	Odorless, colorless liquid
Storages	Store in a dry, protected environment out of UV light and between 40°F - 104°F
VOC Content	None
Curing	3 - 8 days. Walkable after a few hours.
Packaging	1-gallon & 5-gallon standard, special order 264-gallon totes

Uses

Underground structures to prevent water intrusion from both inside and outside.

• Concrete bridges, roadways, barrier walls, Jersey barriers, underpasses, parking structures, dams and tunnels.

• Purification plants, water treatment and storage tanks in contact with aggressive substances.

• All immersed concrete structures to block attacks from chlorides.

• Sewage treatment, biogas plants and biomass facilities.

• Farm structures and cellars (biological security for cattle sheds, pigeries, poultry facilities, storage facilities for grains and hay).

• Protects concrete in contact with aggressive acids, chemicals and hydrocarbons.

• Protects concrete subject to severe climatic conditions.

• Stops basement slab moisture and dampness penetration.

• Anywhere you want to increase the durability of concrete.

• Precast cement beams, pipes and irrigation channels.

• Any exposed concrete.

More Information

Scan the code to visit our website.
www.ecobeton-usa.com



ECOBETON-USA
Tel: 800.723.2198
Email: info@ecobeton-usa.com
www.ecobeton-usa.com

Grounds Maintenance

- Forestry Management
- Grounds Maintenance (Weed/Tick/Brush Control)



Questions

