AiON
Cutting-Edge Defense for Modern Warfighters

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OVERVIEW

AiON is a new Counter Unmanned Aircraft System (C-UAS) solution from Northrop Grumman. Disrupting traditional pathways, AiON's cutting-edge C-UAS technology has an intuitive user interface and advanced AI-powered decision aids allowing the integration of new technology. Engineered for versatility, AiON seamlessly operates in cloud environments and on tactical edge hardware. AiON is a low cost and low risk command-and-control solution that enables an operator's ability to command multiple sites from anywhere.

- Designed for cloud first operation, AiON Cloud enables a single warfighter to autonomously manage multiple battlespaces from a single web-based interface. When the cloud isn't available, AiON Tactical enables a seamless transition to disconnected local operations.

- Designed for IBCS convergence, its open architecture ensures backwards compatibility with Forward Area Air Defense (FAAD) while enabling new capabilities, providing a future-proof solution.

ARCHITECTURE BUILT FOR HYBRID/TACTICAL AND RAPID INTEGRATION

- AiON is designed to operate anywhere, from the cloud to the tactical edge.

- Enables a single operator to manage multiple sites from a single location.

INTUITIVE DECISION CAPABILITIES

- AiON features AI-enhanced decision aids that automate critical activities, enabling operators to manage complex situations with greater efficiency and safety.

- With intuitive controls, AiON's "Engage All" feature reduces the operator workload from 10 clicks per track to 2 clicks total against an entire swarm of drones.

- Its open design allows for the rapid integration of new sensors, effectors, and third-party decision algorithms, ensuring adaptability to emerging threats and enhanced lethality.

PROVEN INTEROPERABLE EXCELLENCE

- AiON's software runs seamlessly across various hardware platforms, including tablets, without compromising on performance.

- AiON integrates smoothly with existing U.S. Army and Joint/Coalition systems, facilitating effective collaboration and data sharing.

- The system's automatic mode autonomously addresses threats, minimizing the need for operator intervention while efficiently managing multiple threats simultaneously.

- The system's Advanced Battle Manager ensures superior threat recognition, automatic kill assessments, and in-flight re-tasking of interceptors.

NORTHROP GRUMMAN

Small RW Drone · Reconnaissance Drones · Loitering Kamikaze · Jet Drones · Multi-Mission Drones

EFFECTORS (Over 50 Integrated)
- High Energy Laser
- Interceptor
- High Power Microwave
- Cannon / Gun
- EW
- Drone Capture
- Alert / Siren Systems

SYSTEM OF SYSTEMS
- Mobile
- Fixed Site

SENSORS (Over 45 Integrated)
- Active & Passive RF
- EW
- Acoustic
- EO / IR
- IFF
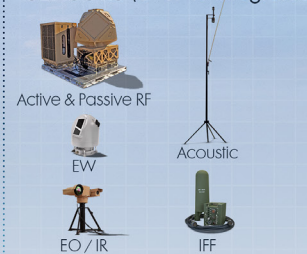
EXTERNAL NETWORKS

Joint Forces
- U.S. Air Force
- U.S. Army
- U.S. Army National Guard
- U.S. Marine Corps
- U.S. Navy

Coalition Forces

ENABLED CAPABILITIES

Effectors

AI3	EOS R400	Longbow/Hellfire	Pulsar
AIM-9/120	FS-LIDS	LPWS	Qasar
Athena	HELMTT	M-ACE/AGT	Resolve
BLADE	HELWS	MEHEL	RIwP
CLaWS	HPM (Leonidas)	M-LIDS	Roadrunner
CORIAN	IM-SHORAD	Modi	Sabre Fury (Duke)
Coyote Blocks 1/2/2E/3 NK	Iron Dome	MoRFIUS	Stinger
DE M-SHORAD	JCREW/DRAKE	Ninja	Titan EW
Drone Hunter	L-MADIS	Phaser	THOR
E-LIDS	LOCUST	P-HEL/AMP-HEL/IFPC HEL	

Sensors

ALPS	KuRFS/KuRFS 2
Anduril	Ku720
AN/MPQ-64	MFRS
AN/TPQ-36/37	MHR/RPS-42/62/82
AN/TPQ-49/50	Modi
AN/TPQ-53	Night Hawk
AN/TPS-78	Ninja
Ascent Vision CM202U	PFCR
ATNAVICS	R1410
CORIAN	Sentry
Giraffe 1X	Titan EW
Giraffe AMB	XBAEU
JCREW/DRAKE	

External Systems

ADS-B	Software Service Update
AMDWS	UAT/Mode 5 Squitter
ASTERIX Radars	UC2
Blue Force Tracking	
Camgian Reactor	
Cursor on Target (CoT)	
FOCUS	
Foundry/Maven Smart System	
IVAS (Microsoft)	
MIL-STD-3011 A/B/C	
MIL-STD-6016 (Link-16)	
MIL-STD-6020 (3011C Fwd)	
PDRS	

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