



OFFICE OF THE CHIEF EXECUTIVE AND CHIEF TECHNOLOGY OFFICER

EXECUTIVE MEMORANDUM

Approval of the METEORSTORM Analytic Elements for Machine-to- Machine Exchange with Space ISAC

TO	FROM	REFERENCE	DATE / STATUS
Space Cybersecurity Operations and Resilience (SCOR); Security Operations; Satellite Operations; Satellite Design & Engineering	Adaeze N. Okafor , Chief Executive Officer · Gordon S. Reyes , Chief Technology Officer	KO-EXEC- 2026-014 · Supersedes: none	09 January 2026 · Effective immediately, standing directive
SUBJECT	AUTHORITY BASIS		
Space Information Sharing and Analysis Center (Space ISAC) exchange scope and the analytic elements approved for it	Third co-equal mandate, alongside Executive Order 14144 and the NIS2 Directive		

1.0 PURPOSE AND AUTHORITY

Kestrel Orbital operates under three co-equal mandates. Two are external: **Executive Order 14144** sets binding protection requirements for the command and control of the space system, and the **NIS2 Directive** (Directive (EU) 2022/2555) places the ground-based infrastructure under mandatory risk-management and reporting duties. The third is ours to run: **machine-to-machine information sharing with the Space Information Sharing and Analysis Center (Space ISAC)**.

This memorandum formalizes that third mandate. It is a standing company directive, not a program option. Information sharing with Space ISAC is how a threat, an attack path, or a detection that one operator confirms becomes usable across the sector before it reaches the rest of us. Recorded once in a single controlled vocabulary, a finding can be exchanged machine to machine with Space ISAC and its members with nothing to re-translate. That is the point of the channel, and it is why we are naming, in writing, exactly what may cross it.

1.1 THE THREE CO-EQUAL MANDATES

EXTERNAL · UNITED STATES EXECUTIVE ORDER 14144 Binding protection requirements for command and control of the space system: command authentication, intrusion detection, secure boot, responsive patching. CO-EQUAL · GOAL 1	EXTERNAL · EUROPEAN UNION NIS2 DIRECTIVE Mandatory risk-management and incident-reporting duties on the ground infrastructure, with defined incident-sharing thresholds and clocks. CO-EQUAL · GOAL 2	INTERNAL · COMPANY DIRECTIVE SPACE ISAC EXCHANGE Machine-to-machine exchange of the approved analytic elements with Space ISAC and its members, in one controlled vocabulary. Formalized by this memorandum. CO-EQUAL · GOAL 3
--	---	--

2.0 APPROVED ELEMENTS FOR EXCHANGE

The following six METEORSTORM analytic-layer element types are **approved for exchange, machine to machine, with Space ISAC**. Each is listed with its METEORSTORM tag and its published definition, quoted verbatim. No element type outside this schedule is authorized for the channel without a further written directive from this office.

AN-THR THREAT	THREAT “Confirmed and active threat against a converged space system.”
AN-ATT ATTACK PATH	ATTACK PATH “Confirmed attack path for a converged space system.”
AN-IOA INDICATOR OF ATTACK	INDICATOR OF ATTACK (IOA) “Confirmed indication that a converged space system has been attacked.”
AN-IOC INDICATOR OF COMPROMISE	INDICATOR OF COMPROMISE (IOC) “Confirmed indication that a converged space system has been compromised.”
AN-DET DETECTION SIGNATURE	DETECTION SIGNATURE “Validated and operational pattern, signal, or logic that triggers on contextualized threat behavior for a converged space system.”
AN-RES RESILIENCE MEASURE	RESILIENCE MEASURE “Validated and operational protective capability ensuring converged space system resistance or recovery from confirmed threats.”

Definitions are the published METEORSTORM analytic-layer (AN) text and are not to be reworded, shortened, or paraphrased in any exchanged record.

3.0 CONDITIONS OF EXCHANGE

- 1
- Every exchanged element carries its METEORSTORM tag and, where it names a specific instance on our platform, its Enumerated Taxonomic Element Nomenclature (ETEN) identifier and parent chain, so a record means the same thing on both ends.
- 2
- Exchange is **machine to machine**: structured records over the agreed interface with Space ISAC, not free-text email or ad hoc attachments.
- 3
- The channel is scoped, not open-ended. It serves the first two mandates directly: SCOR shares a redacted alert on a confirmed command-and-control attack under Executive Order 14144, and it exchanges incident records consistent with the thresholds and clocks the NIS2 Directive sets.
- 4
- Redaction before release is mandatory. Mission-sensitive detail, customer identity, and any content restricted under ITAR or EAR is removed or withheld; only the approved element and the context needed to act on it leave the company.
- 5
- Exchange is reciprocal. Elements received from Space ISAC in the same vocabulary are ingested into our shared platform view and routed to the department that owns the affected element.

4.0 DIRECTION TO SCOR

SCOR will carry **Executive Order 14144, the NIS2 Directive, and this Space ISAC exchange mandate as three co-equal goals**, weighted equally in how the platform is described, defended, monitored, and recovered. No one of the three is a subordinate of the other two. The shared description of the platform that SCOR builds, starting with the telecommand path, is the same description that produces the elements this channel exchanges, so the work done for the first two mandates is the work that feeds the third.

SCOR owns the vocabulary, the interface, and the redaction standard, and trains Security Operations, Satellite Operations, and Satellite Design & Engineering to produce and consume these elements as one system. Questions of scope on any element not listed in Section 2 come to this office in writing.

5.0 APPROVAL

A. Okafor
Adaeze N. Okafor
CHIEF EXECUTIVE OFFICER
Kestrel Orbital

G. Reyes
Gordon S. Reyes
CHIEF TECHNOLOGY OFFICER
Kestrel Orbital

