WEEKLY GPS AND AIS SPOOFING DETECTION REPORT

AIS Spoofing

GPS & AIS Spoofing / Tampering Detection

ISSUE REPORTING WEEK 00

CADENCE WEEKLY

HANDLING CLIENT CONFIDENTIAL

BOTTOM LINE UP FRONT

GPS interference in the Persian Gulf and the Strait of Hormuz affected more vessels than in any week this quarter, with positions jumping inland and into circular patterns. Separately, a cluster of tankers broadcast duplicate identities in the eastern Mediterranean.

312
VESSELS WITH POSITION JUMPS

17
DUPLICATE AIS IDENTITIES

6
INTERFERENCE ZONES ACTIVE

SPOOFING ACTIVITY LEVEL

4 / 5

HIGH

LOW — CRITICAL

Scored on TAM-C's 1 to 5 risk method. Up one level on Hormuz interference.

01 Key findings

GPS JAMMING — HIGH

Hormuz positions shift inland

Over 200 vessels in the Strait of Hormuz reported positions on land near [redacted] for up to six hours. The pattern points to a ground-based spoofing source and has coincided with heightened regional tension.

SOURCE · AIS AND GNSS DATA

IDENTITY FRAUD — ELEVATED

Tankers share one MMSI number

Two tankers broadcast the same MMSI as the [redacted] while 400 nm apart in the eastern Mediterranean. One track overlaps a known ship-to-ship transfer area, suggesting identity laundering.

SOURCE · SATELLITE AIS

AIS DARK — MODERATE

Dark vessel seen in the Black Sea

Radar imagery shows a tanker-sized hull near a Black Sea terminal while no AIS signal was transmitted. Its size and track match the [redacted] last seen two days earlier, before its transponder went silent.

SOURCE · SAR IMAGERY

02 Spoofing hotspot watch

SIGNAL	TREND	EXPOSURE
GPS position jumps in the Strait of Hormuz	▲ Rising	HIGH
Circular spoofing patterns in the Baltic Sea	■ Steady	ELEVATED
Duplicate MMSI broadcasts in the Mediterranean	▲ Rising	ELEVATED
AIS gaps near Black Sea oil terminals	▼ Easing	MODERATE

03 Analyst recommendations

01 Brief bridge teams in the Gulf to cross-check GPS with radar and visual fixes on transit.

02 Screen charter counterparties against the duplicate MMSI list before fixing cargoes.

03 Log and report any GNSS anomalies to TAM-C to sharpen interference zone mapping.

COLLECTION MIX THIS WEEK



AIS feeds 49% — GNSS data 29% — SAR imagery 22%

WHAT SUBSCRIBERS RECEIVE

→ Analyst-written PDF, every week

→ Interference zone maps and timings

→ Alerts on spoofed or cloned vessels

→ Direct line to the maritime desk

ILLUSTRATIVE SAMPLE. VESSELS, OPERATORS AND FIGURES ARE ANONYMIZED OR REDACTED. FULL ISSUES ARE DISTRIBUTED TO SUBSCRIBERS ONLY.

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