# SML — Semantic Markup Language

Inline, machine-actionable semantics for life-critical communications

## PURPOSE

SML embeds structured meaning directly in natural language using inline tags like {DOMAIN:VALUE}. It enables instant machine parsing while staying readable for humans. Designed for crisis ops (defense, emergency response, humanitarian coordination).

## HOW IT WORKS

Tags attach to the next word or a parenthesized span. Multiple tags combine by conjunction. Export to JSON/RDF for systems. Deterministic grammar (EBNF) ensures unambiguous parsing.

## CORE DOMAINS

SEM (type), SYN (role), TEMP (time), ASP (aspect), EVID (evidence), MOD (modality), STATE (status).

## EXAMPLE

{SEM:EVENT id=EV1}{ASP:COMPLETED}{TEMP:ABSOLUTE_TIME iso="2025-09-20T12:30:00Z"}Strike {SEM:LOCATION sub="hospital"}{SYN:LOCATIVE head=EV1}(Kharkiv). {EVID:VISUAL conf=0.92}(Drone video).

## OPERATIONAL GAINS

• Faster decisions: pre-parsed who/what/where/when with confidence.

• Fewer errors: explicit negation, roles, and time remove ambiguity.

• Seamless fusion: direct RDF/JSON output to COP, GIS, or data lakes.

• Low friction: VS Code extension, CLI parser, offline-capable, Apache-2.0.

## PILOT PLAN (7 DAYS)

1) 200 EN/UA sentences (OSINT + internal).

2) Integrate parser+RDF export into a minimal pipeline.

3) Metrics: time-to-decision, error rate, fusion correctness.

4) Handover: docs, schema, conformance suite.

## SECURITY & PRIVACY

No telemetry. Local parsing. Signed releases. RFC3339/ISO 8601 time, deterministic behavior.

Anchors and URIs configurable to your data governance.

## CONTACT

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available on request.