



535 4th St, Bremerton, WA 98337 · salish.systems

TRACKING NO.	SLS-305
PROGRAM	ALDER
CATEGORY	Autonomy & C2
FISCAL YEAR	FY2025
CONTRACT AWARD	17 APR 2025

## CAPABILITY BRIEF

# TIDEFALL

SLS-PROPRIETARY

## Fleet Command & Control Suite

Tidefall is the fleet command-and-control suite — the layer above CEDAR that turns individual vehicles into a coordinated force. ALDER tasks heterogeneous USV and UUV groups, fuses their sensor feeds into a common maritime picture, and lets one operator supervise many platforms. Where CEDAR drives a single hull, ALDER conducts the orchestra.

### KEY CAPABILITIES

- Multi-vehicle tasking and deconfliction across surface and subsea assets.
- Sensor fusion of ESM, ISAR/radar, AIS, EO/IR, and passive acoustic tracks.
- Single-operator supervisory control with exception-based human-on-the-loop.
- Contested-comms operation — opportunistic mesh and store-and-forward tasking.
- Full mission recording and replay for after-action review.
- Integrates directly with all Salish platforms and payloads.

### PLATFORM AT A GLANCE

# 1 : many

CONTROL SPAN

# 24+

VEHICLES

# Multi-INT

SENSORS

# Contested

COMMS

### PLATFORM PROFILE

DEPLOYMENT	Shore / ship / edge	OPERATORS	1 (supervisory)
VEHICLES	24+ concurrent	FUSION	ESM, radar, AIS, EO/IR, acoustic
TASKING	Goal-based + manual	TRACKING	Multi-target JPDA
PICTURE	Common maritime picture	COMMS	Mesh, store-and-forward
AUTONOMY	Human-on-the-loop	VEHICLE INTERFACE	CEDAR (SLS-301)
STANDARDS	Link-agnostic	SECURITY	CUI-rated
COMPUTE	COTS server / edge	RECORDING	Full mission replay
ALERTING	Emitter / contact	INTEGRATIONS	All SLS payloads

### CONCEPT OF EMPLOYMENT

ALDER is the operator's single pane of glass — building the common picture from distributed sensors, deconflicting and tasking the force, and cueing effectors such as Riptide (SLS-104), all while sustaining control through degraded communications. It scales one watchstander across a heterogeneous fleet of surface and subsea autonomy.