OpenSSA

OpenSSA

Field	Value
Distribution	BSS — OpenC5ISR
Product	OpenC5ISR
Release	0.15.1
Deployment	`openc5isr.bss.dev`
Source	`/srv/bss/releases/OpenC5ISR-v0.15.0-20app`
Evidence	Catalog intent plus component-scoped static evidence
Source fingerprint	`93926e8c834f1ed79c9017a4096f70c76d73ce4f870f104fbd0cf54b2bed50ee`
Status	Generated baseline — human review required

> **Verification boundary:** This page combines platform design guidance with static evidence from the release. It does not prove that every detected interface is enabled, reachable, secure, or operational in the deployed environment.

Purpose

The spectrum situational-awareness view for live RF visualization, detections, registered sensors and geospatial correlation.

Operational value

Converts raw edge RF data into a shared operational picture instead of forcing users to operate isolated laboratory tools.

Differentiators

Combines high-rate edge processing with selective real-time transmission and ties spectrum observations to registered radio location and time.

Platform connections

- OpenRF
- OpenPNT
- OpenCOP
- OpenTrack
- OpenAnalytics

Release detection

Status	Score	Evidence items
detected	107	12

Evidence type	Source	Match
path	`OPENSSA-DEMO-DEPLOYMENT.md`	`openssa`
path	`OPENSSA.md`	`openssa`
path	`UPGRADE-OPENSSA-v0.5.0.md`	`openssa`
path	`data/openssa.json`	`openssa`
path	`edge/openssa-sensor/API.md`	`openssa`
content	`CHANGELOG.md`	`openssa`
content	`DEPLOY-GODADDY.md`	`openssa`
content	`MERGE-v0.13.1.md`	`openssa`
content	`OPENCYBERSEC.md`	`openssa`
content	`OPENPNT.md`	`openssa`
path	`edge/openssa-sensor/public/open-ssa/app.js`	`open-ssa`
path	`edge/openssa-sensor/public/open-ssa/index.html`	`open-ssa`

Candidate REST/API interfaces

No component-specific REST route was associated by the scanner.

Candidate real-time interfaces

No component-specific WebSocket endpoint was associated by the scanner.

Configuration candidates

Variable	Default	Evidence
`ALT`	—	edge/openssa-sensor/install-demo-sensor.sh
`BASE`	http://127.0.0.1:3000	DEPLOY-GODADDY.md, OPENCYBERSEC-QUICKSTART.md, OPENCYBERSEC.md, UPGRADE-v0.14.0.md
`BUILD`	—	edge/openpnt-linuxptp/SELF-TEST.sh, edge/openssa-sensor/install/install-native-uhd.sh, edge/openssa-sensor/native/uhd_spectrum_engine/build-simulation.sh, edge/openssa-sensor/native/uhd_spectrum_engine/build.sh
`BUILD_DIR`	$ENGINE/build	edge/openssa-sensor/install/install-native-uhd.sh, edge/openssa-sensor/native/uhd_spectrum_engine/build-simulation.sh, edge/openssa-sensor/native/uhd_spectrum_engine/build.sh
`CFG`	—	edge/openssa-sensor/install-demo-sensor.sh
`CONFIG`	—	drivers/install_openpnt_agent.sh, edge/opencybersec/install.sh, edge/openssa-sensor/install/check-sensor.sh, edge/openssa-sensor/install/install-sensor.sh

Variable	Default	Evidence
`DATA_DIR`	path.join(ROOT	OPENCYBERSEC-QUICKSTART.md, OPENCYBERSEC.md, RELEASE-MANIFEST-v0.14.0.json, UPGRADE-v0.14.0.md
`DRIVER`	—	edge/openssa-sensor/install-demo-sensor.sh, edge/openssa-sensor/install/check-sensor.sh, edge/openssa-sensor/install/install-ubuntu-deps.sh
`ENGINE`	—	edge/openssa-sensor/install/install-native-uhd.sh
`HERE`	—	edge/openpnt-linuxptp/SELF-TEST.sh, edge/openpnt-linuxptp/install-linuxptp.sh, edge/openssa-sensor/native/uhd_spectrum_engine/build-simulation.sh, edge/openssa-sensor/native/uhd_spectrum_engine/build.sh
`LAT`	—	edge/openssa-sensor/install-demo-sensor.sh
`LON`	—	edge/openssa-sensor/install-demo-sensor.sh
`NATIVE_SOURCE`	—	edge/openssa-sensor/install/install-sensor.sh, edge/openssa-sensor/install/update-existing-sensor.sh
`NODE_ID`	COMPILED_DEPLOYMENT.nodeId	server.js, edge/openssa-sensor/lib/openssa.js, lib/openssa.js
`OPENBUS_API_TOKEN`	[REDACTED]	OPENKNOWLEDGE-OPENTASK.md, OPENLVC-DEMO.md, OPENLVC-RTI.md, demo_simulator.py
`OPENCYBERSEC_AGENT_TOKEN`	[REDACTED]	OPENCYBERSEC-QUICKSTART.md, OPENCYBERSEC.md, server.js, examples/opencybersec/ingest-examples.sh
`OPENCYBERSEC_OPERATOR_TOKEN`	[REDACTED]	OPENCYBERSEC-QUICKSTART.md, OPENCYBERSEC.md, server.js, examples/opencybersec/ingest-examples.sh
`OPENSSA_ACTIVE_TIMEOUT_S`	900	server.js, edge/openssa-sensor/SERVER_INTEGRATION.md, edge/openssa-sensor/lib/openssa.js, lib/openssa.js
`OPENSSA_EMITTER_HISTORY_LIMIT`	2000	edge/openssa-sensor/lib/openssa.js, lib/openssa.js

Variable	Default	Evidence
`OPENSSA_EMITTER_SIGHTING_LIMIT`	500	edge/openssa-sensor/lib/openssa.js, lib/openssa.js
`OPENSSA_GEOLOCATION_HISTORY_LIMIT`	100	edge/openssa-sensor/lib/openssa.js, lib/openssa.js
`OPENSSA_ITU_REGION`	2	server.js, edge/openssa-sensor/SERVER_INTEGRATION.md, edge/openssa-sensor/lib/openssa.js, lib/openssa.js
`OPENSSA_LOCATION_PROFILE`	—	edge/openssa-sensor/drivers/ssa_sensor.py
`OPENSSA_SENSOR_TOKEN`	[REDACTED]	server.js, edge/openssa-sensor/SERVER_INTEGRATION.md, edge/openssa-sensor/local_server.js, edge/openssa-sensor/demo/run_streaming_demo.py
`OPENSSA_UHD_SPECTRUM_ENGINE`	—	edge/openssa-sensor/drivers/ssa_sensor.py
`PORT`	3000	server.js, edge/openssa-sensor/local_server.js, lib/openrf-controller/server.js
`ROLE`	—	edge/openssa-sensor/install-demo-sensor.sh
`ROOT`	—	edge/opencybersec/install.sh, edge/openpnt-linuxptp/SELF-TEST.sh, edge/openpnt-linuxptp/install-linuxptp.sh, edge/openssa-sensor/install-demo-sensor.sh
`RUN_ID`	—	OPENCYBERSEC.md
`SERVICE_GROUP`	—	edge/openssa-sensor/install/install-sensor.sh, edge/openssa-sensor/install/update-existing-sensor.sh
`SERVICE_USER`	—	edge/openssa-sensor/install/install-sensor.sh, edge/openssa-sensor/install/update-existing-sensor.sh
`SITE_ID`	COMPILED_DEPLOYMENT.siteId	server.js, edge/openssa-sensor/lib/openssa.js, lib/openssa.js
`SSA_API`	—	edge/openssa-sensor/public/open-ssa/app.js, open-ssa/app.js, public/open-ssa/app.js

Variable	Default	Evidence
`SUDO_USER`	$USER	edge/openssa-sensor/install/install-sensor.sh, edge/openssa-sensor/install/update-existing-sensor.sh, openrf/agent/install.sh
`TOKEN`	—	edge/openssa-sensor/install-demo-sensor.sh, rocketchat/outgoing-webhook-test.sh
`UHD_INCLUDE_DIRS`	—	edge/openssa-sensor/native/uhd_spectrum_engine/CMakeLists.txt
`UHD_LIBRARIES`	—	edge/openssa-sensor/native/uhd_spectrum_engine/CMakeLists.txt
`USER`	—	edge/openssa-sensor/SENSOR_INSTALL.md, edge/openssa-sensor/install-demo-sensor.sh, edge/openssa-sensor/install/install-sensor.sh, edge/openssa-sensor/install/update-existing-sensor.sh
`WORK`	—	edge/openssa-sensor/install-demo-sensor.sh

Service candidates

No component-specific service definition was associated by the scanner.

External dependencies/endpoints

Host	URL	Source
${req.headers.host	`http://${req.headers.host/`	`edge/openssa-sensor/lib/openssa.js`
${req.headers.host	`http://${req.headers.host/`	`edge/openssa-sensor/tests/e2e_server.js`
${req.headers.host	`http://${req.headers.host/`	`lib/openssa.js`
${req.headers.host||	`http://${req.headers.host||/`	`edge/openssa-sensor/local_server.js`
${req.headers.host}	`http://${req.headers.host}/`	`edge/openssa-sensor/tests/test_openssa.js`
${req.headers.host}	`http://${req.headers.host}/`	`tests/openssa/test_openssa.js`

Host	URL	Source
example.invalid	`https://example.invalid/`	`edge/openssa-sensor/tests/test_profile_tool.py`
loammhpng4.c36.airoapp.ai	`https://loammhpng4.c36.airoapp.ai/`	`CHANGELOG.md`

Verification checklist

- Confirm the component is included and enabled in this edition/release.
- Record its authoritative service, process/container, port, base URL and health endpoint.
- Exercise its primary operator workflow and capture expected versus actual results.
- Verify authentication, authorization, audit, error behavior and data handling policy.
- Verify OpenBus/OpenKnowledge relationships and time/provenance metadata where applicable.
- Document known limitations and the release in which they are corrected.

Maintainer Notes

Add human-reviewed deployment notes, corrections, decisions, screenshots, and links here. Content outside the generated block is preserved on future runs.

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