OpenLVC

OpenLVC

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 live, virtual and constructive interoperability layer for connecting real equipment, high-fidelity virtual systems and constructive simulations.

Operational value

Supports acquisition, analysis, training, mission rehearsal and experimentation using the same operational interfaces as live systems.

Differentiators

Synthetic entities and live assets can share the same track, task, semantic, timing and collaboration fabric instead of requiring a parallel exercise-only architecture.

Platform connections

- OpenTrack
- OpenPNT
- OpenCOP
- OpenAAR-MR
- OpenNetworks

Release detection

Status	Score	Evidence items
detected	173	12

Evidence type	Source	Match
path	`OPENLVC-DEMO.md`	`openlvc`
path	`OPENLVC-RTI.md`	`openlvc`
path	`OPENLVC.md`	`openlvc`
path	`edge/openlvc/README.md`	`openlvc`
path	`edge/openlvc/ais_nmea_bridge.py`	`openlvc`
content	`API.md`	`openlvc`
content	`CHANGELOG.md`	`openlvc`
content	`DEPLOY-GODADDY.md`	`openlvc`
content	`EXTERNAL-SERVICES.md`	`openlvc`
content	`MERGE-INSTRUCTIONS-v0.8.1.md`	`openlvc`
path	`open-lvc/app.js`	`open-lvc`
path	`open-lvc/index.html`	`open-lvc`

Candidate REST/API interfaces

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

Candidate real-time interfaces

Endpoint	Source	Evidence
`wss://.../`	`OPENLVC-DEMO.md`	url

Configuration candidates

Variable	Default	Evidence
`BASE`	http://127.0.0.1:3000	DEPLOY-GODADDY.md, OPENCYBERSEC-QUICKSTART.md, OPENCYBERSEC.md, UPGRADE-v0.14.0.md
`FG_ROOT`	—	edge/openlvc/flightgear/opensof-lvc.xml
`OPENBUS_API_TOKEN`	[REDACTED]	OPENKNOWLEDGE-OPENTASK.md, OPENLVC-DEMO.md, OPENLVC-RTI.md, demo_simulator.py
`OPENLVC_FEDERATE`	—	edge/openlvc/systemd/openlvc-rti-gateway.service
`OPENLVC_FEDERATION`	—	edge/openlvc/systemd/openlvc-rti-gateway.service
`OPENLVC_RTI_SIDECAR_COMMAND`	—	edge/openlvc/systemd/openlvc-rti-gateway.service
`OPENSOF_URL`	http://127.0.0.1:3000	OPENLVC-DEMO.md, edge/openlvc/README.md, edge/openlvc/dis_udp_bridge.py, edge/openlvc/rti_openbus_gateway.py

Service candidates

Service	ExecStart	Source

openlvc-ais-bridge.service	`/usr/bin/python3 /opt/opensof/edge/openlvc/ais_nmea_bridge.py --opensof ${OPENSOF_URL} --token [REDACTED] --bind 0.0.0.0 --port 10110`	`edge/openlvc/systemd/openlvc-ais-bridge.service`
openlvc-dis-bridge.service	`/usr/bin/python3 /opt/opensof/edge/openlvc/dis_udp_bridge.py --opensof ${OPENSOF_URL} --token [REDACTED] --bind 0.0.0.0 --port 3000`	`edge/openlvc/systemd/openlvc-dis-bridge.service`
openlvc-flightgear-bridge.service	`/usr/bin/python3 /opt/opensof/edge/openlvc/flightgear_bridge.py --opensof ${OPENSOF_URL} --token [REDACTED] --bind 0.0.0.0 --port 5505`	`edge/openlvc/systemd/openlvc-flightgear-bridge.service`
openlvc-rti-gateway.service	`/usr/bin/python3 /opt/opensof/edge/openlvc/rti_openbus_gateway.py --opensof ${OPENSOF_URL} --token [REDACTED] --federation ${OPENLVC_FEDERATION} --federate ${OPENLVC_FEDERATE} --sidecar-command ${OPENLVC_RTI_SIDECAR_COMMAND}`	`edge/openlvc/systemd/openlvc-rti-gateway.service`

External dependencies/endpoints

Host	URL	Source
...	`https://.../mjpeg`	`OPENLVC-DEMO.md`
aksw.org	`http://aksw.org/`	`third_party/ontowiki/application/classes/OntoWiki/Dispatcher.php`
archive.apache.org	`http://archive.apache.org/dist/jena/binaries/jena-fuseki-$FUSEKI-distribution.tar.gz`	`third_party/ontowiki/application/scripts/travis/install-services.sh`
bss.dev	`https://bss.dev/live/isac/\nOPENLVC_PUBLIC_URL=\nAEGIS_SENTINEL_LABEL=AEGIS-SENTINEL\nOPENMAIL_PUBLIC_URL=\nOPENFILES_PUBLIC_URL=\n`	`tools/integrate_opensof_service_entries.py`
developer.mozilla.org	`https://developer.mozilla.org/en-US/docs/CSS/display`	`third_party/ontowiki/extensions/themes/silverblue/scripts/libraries/jquery-1.9.1.js`
github.com	`https://github.com/mwjames/travis-support/raw/master/fuseki/$FUSEKI/jena-fuseki-$FUSEKI-distribution.tar.gz`	`third_party/ontowiki/application/scripts/travis/install-services.sh`
json-schema.org	`https://json-schema.org/draft/2020-12/schema`	`edge/openlvc/sidecar-contract.schema.json`
loammhpng4.c36.airoapp.ai	`https://loammhpng4.c36.airoapp.ai/`	`API.md`
loammhpng4.c36.airoapp.ai	`https://loammhpng4.c36.airoapp.ai/`	`CHANGELOG.md`

Host	URL	Source
loammhpng4.c36.airoapp.ai	`https://loammhpng4.c36.airoapp.ai/open-cop/\nhttps://loammhpng4.c36.airoapp.ai/open-isac/\nhttps://loammhpng4.c36.airoapp.ai/open-lvc/\nhttps://loammhpng4.c36.airoapp.ai/open-mail/\nhttps://loammhpng4.c36.airoapp.ai/open-files/\nhttps://loammhpng4.c36.airoapp.ai/api/integrations\n`	`tools/integrate_opensof_service_entries.py`
ns.aksw.org	`http://ns.aksw.org/spatialHierarchy/District`	`third_party/ontowiki/application/tests/unit/OntoWiki/Extension/ManagerTest.php`
ontowiki.net	`http://ontowiki.net/`	`third_party/ontowiki/application/classes/OntoWiki/Dispatcher.php`
opensof.local	`https://opensof.local/ontology`	`lib/openlvc.js`
opensof.local	`https://opensof.local/resource/`	`lib/openlvc.js`
opensource.org	`http://opensource.org/licenses/gpl-license.php`	`third_party/ontowiki/application/classes/OntoWiki/Dispatcher.php`

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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