

Continuity & Recovery

Managed documentation for Continuity & Recovery.

- [Backup and Recovery](#)
- [Troubleshooting](#)

Backup and Recovery

Backup and Recovery

Field	Value
Distribution	BSS — OpenC5ISR
Product	OpenC5ISR
Release	0.15.1
Deployment	<code>openc5isr.bss.dev</code>
Source	<code>/srv/bss/releases/OpenC5ISR-v0.15.0-20app</code>
Evidence	Continuity standard
Source fingerprint	<code>93926e8c834f1ed79c9017a4096f70c76d73ce4f870f104fbd0cf54b2bed50ee</code>
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.

Backup scope

Asset	Backup requirement	Restore verification
Release artifacts	Retain exact immutable packages/checksums; normally do not back up regenerated dependencies.	Checksum and extraction test.
Configuration	Versioned protected copy excluding or separately encrypting secrets.	Syntax test and controlled comparison.
Databases	Consistent database-native dump/snapshot with schema/version metadata.	Restore into isolated environment and run integrity/query checks.

Asset	Backup requirement	Restore verification
Files/evidence	Content plus metadata, ownership, access policy, checksums and provenance.	Sample restore, checksum and access-control test.
Knowledge/ontology	Graph data, ontology versions, shapes, indexes and configuration.	SPARQL/constraint tests against restored graph.
Audit/history	Protected retention according to policy; preserve ordering and integrity evidence.	Query selected events and verify integrity chain.

Recovery order

1. Infrastructure, DNS/TLS and time.
2. Protected configuration and secrets.
3. Databases, knowledge and artifact stores.
4. OpenBus/shared backends.
5. Edition-specific applications and reverse proxy.
6. Sensors/edge agents and external integrations.
7. End-to-end acceptance tests and user access.

Recovery objective

Define and test RPO/RTO by data class. A backup that has never been restored is an optimistic file collection, not a recovery capability.

Maintainer Notes

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

Troubleshooting

Troubleshooting

Field	Value
Distribution	BSS — OpenC5ISR
Product	OpenC5ISR
Release	0.15.1
Deployment	<code>openc5isr.bss.dev</code>
Source	<code>/srv/bss/releases/OpenC5ISR-v0.15.0-20app</code>
Evidence	Operational diagnostic standard
Source fingerprint	<code>93926e8c834f1ed79c9017a4096f70c76d73ce4f870f104fbd0cf54b2bed50ee</code>
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.

Diagnostic sequence

1. State the exact user-visible symptom, start time, scope and last known good state.
2. Check DNS/routing/time before assuming an application defect.
3. Check process/container state and recent logs.
4. Test the backend locally on its bound address/port.
5. Test proxy/TLS path and WebSocket upgrade separately.
6. Test dependencies: database, OpenBus, OpenKnowledge, OpenFiles and external services.
7. Reproduce one primary workflow with correlation identifiers and capture evidence.
8. Apply the smallest reversible change, then retest all layers.

Symptom matrix

Symptom	Likely layer	First checks
Connection refused	Process/socket	<code>systemctl status</code> , <code>ss -lntup</code> , local curl
Empty response/reset	App/upstream crash or protocol mismatch	Application logs, internal HTTP response, proxy protocol.
502/504	Reverse proxy/upstream	<code>nginx -t</code> , error log, <code>proxy_pass</code> , backend latency
Page loads but live data fails	WebSocket/CORS/auth	Browser network console, upgrade headers, token/role, route base.
Wrong distribution/branding	Nginx/service instance	Hostname routing, service unit, current release symlink, environment.
Tracks/tasks/products missing	Dependency/data flow	Producer logs, OpenBus/API, authorization, semantic type, time window.
Intermittent correlation error	Time/PNT/data quality	Clock offset, source timestamps, coordinate frame and calibration.

Evidence rule

Before changing configuration, preserve the relevant logs, status output, request/response, release version and timestamps. Troubleshooting without evidence tends to become configuration roulette—with worse odds and fewer free drinks.

Maintainer Notes

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