

# Monitoring & Assurance

Managed documentation for Monitoring & Assurance.

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# Health Checks

# Health Checks

| 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           | Route scan and operational health model                                       |
| 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.

## Candidate health endpoints

No route name strongly associated with health/readiness was detected.

## Layered health model

| Layer   | Check                                              | Good result                  |
|---------|----------------------------------------------------|------------------------------|
| Process | <code>systemctl is-active</code> / container state | Active without restart loop. |

| Layer          | Check                               | Good result                                               |
|----------------|-------------------------------------|-----------------------------------------------------------|
| Socket         | <code>ss -lntup</code>              | Expected address/port owned by expected process.          |
| Local HTTP/API | <code>curl</code> loopback endpoint | Expected status/body within threshold.                    |
| Proxy/TLS      | <code>curl</code> public hostname   | Valid certificate, correct routing and headers.           |
| Dependency     | Database/bus/files/knowledge checks | Authenticated dependency response and acceptable latency. |
| Workflow       | Primary user transaction            | End-to-end result is visible, correlated and retained.    |

# Health endpoint requirements

A liveness endpoint should prove the process can respond; readiness should prove required dependencies and configuration are usable. Do not expose secrets, stack traces or sensitive topology in public health output.

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# Maintainer Notes

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

# Logs and Audit

# Logs and Audit

| 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           | Operational logging standard                                     |
| Source fingerprint | 93926e8c834f1ed79c9017a4096f70c76d73ce4f870f104fbd0cf54b2bed50ee |
| Status             | Generated baseline — human review required                       |

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## Log sources

| Source           | Typical command/location                                | Use                                                             |
|------------------|---------------------------------------------------------|-----------------------------------------------------------------|
| systemd/journald | journalctl -u <unit> --since ...                        | Process lifecycle, stdout/stderr and service errors.            |
| Nginx            | /var/log/nginx/access.log ,<br>/var/log/nginx/error.log | Routing, status, latency, upstream and TLS symptoms.            |
| Application      | Structured logs or configured log directory             | Domain events, validation, dependency calls and workflow state. |
| Audit            | Protected append/central audit store                    | Actor, action, target, policy decision, result and correlation. |

| Source      | Typical command/location        | Use                                                                 |
|-------------|---------------------------------|---------------------------------------------------------------------|
| Sensor/edge | Device/agent logs and telemetry | Connection, clock, calibration, sample loss and product generation. |

# Required structured fields

- UTC timestamp plus source clock/host.
- Severity, service/component, release version and instance.
- Request/event/task/track/case correlation identifier.
- Authenticated actor or service identity when applicable.
- Outcome/error code and safe diagnostic context.

# Do not log

- Passwords, API token secrets, private keys, complete authorization headers or session cookies.
- Sensitive content unless the approved audit/evidence policy explicitly requires and protects it.
- Unbounded raw sensor/media streams in ordinary application logs.

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# Maintainer Notes

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# Operational Checklist

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| 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 standard                                                          |
| Source fingerprint | <code>93926e8c834f1ed79c9017a4096f70c76d73ce4f870f104fbd0cf54b2bed50ee</code> |
| Status             | Generated baseline — human review required                                    |

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## Daily/shift-start checks

- ☐ System time synchronized and no large clock offset alerts.
- ☐ Required services active without restart loops.
- ☐ Disk, memory, CPU and network within operating limits.
- ☐ Public hostnames and local health endpoints respond correctly.
- ☐ OpenBus/data/knowledge/files dependencies reachable.
- ☐ Representative sensor/track/task workflow completes.
- ☐ Backups completed and no unresolved critical security/audit alerts.

# After any change

- ☐ Configuration syntax validated.
- ☐ Only intended service/process changed.
- ☐ Local, proxy and end-to-end tests passed.
- ☐ Logs reviewed for new warnings/errors.
- ☐ Version/change record and rollback state updated.

## Handover record

Record active release, known degradations, temporary workarounds, open incidents, pending changes, sensor availability, external dependency state and the next required action. Operational continuity should not depend on oral memory.

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## Maintainer Notes

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