

# OpenRF Spectrum Workflow

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| 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           | Reference SDR/edge demonstration plus technology indicators      |
| 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.

## Objective

Demonstrate registered SDR discovery, synchronized/located collection, edge spectrum processing and a low-latency spectrum or detection product visible through OpenRF without transporting unnecessary raw samples.

## Procedure

1. Register the radio agent/device with stable ID, driver, capabilities, location profile and time source.
2. Confirm agent health, radio enumeration and selected center frequency/sample/bandwidth/gain settings.
3. Start a bounded scan or known FM/spectrum example and observe local processing load/drop indicators.
4. Open the OpenRF view and verify live spectrum/detection product, labels, units and timestamps.
5. Change one authorized setting and verify acknowledgement plus visible result.
6. Record latency, update rate, sample/drop quality and time/PNT status.
7. Stop the task and verify radio resources are released.

## Pass criteria

Correct radio/profile is used; settings are bounded and authorized; product units/time are correct; view remains responsive; loss/degradation is visible; stop releases hardware; no raw bandwidth flood occurs across the WAN.

## Observed technology indicators

| Indicator    | Occurrences |
|--------------|-------------|
| PTP/PPS      | 1064        |
| camera/video | 362         |
| UHD/USRP     | 341         |
| AIS          | 154         |
| HackRF       | 132         |
| FlightGear   | 121         |
| PlutoSDR     | 115         |
| DIS          | 85          |
| SoapySDR     | 63          |
| ADS-B        | 46          |

## 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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Revision #2

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