

# 12.4 Report FX Node Status

## Go To Phase 0 Interaction Pattern Realization

The Report FX Node Status pattern realizes operational condition reporting for Phase 0 implementation participants.

An implementation participant publishes or records FX Node Status when it starts, becomes ready, runs normally, degrades, recovers, stops, fails, or receives a status request. The status report identifies the implementation participant, the related FX logical Node, lifecycle state, status reason, timestamp, and provenance or traceability reference, where required for Phase 0.

**Table 12-2:** Report FX Node Status implementation realization.

| Realization Concern                 | Phase 0 Implementation Treatment                                                                                                                                          |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FX logical interaction pattern      | Report FX Node Status                                                                                                                                                     |
| Primary implementation participants | Reporting implementation participant; health and observability participant                                                                                                |
| Primary Runtime Plane               | FX Logical Health and Observability Plane                                                                                                                                 |
| Supporting Runtime Planes           | FX Logical Control Plane; FX Logical Audit and Provenance Plane                                                                                                           |
| Primary DDS Topic                   | Health.FX.NodeStatus                                                                                                                                                      |
| Primary information                 | FX Node Status                                                                                                                                                            |
| Expected processing outcome         | The implementation records or publishes the participant's operational condition.                                                                                          |
| Logging and exception handling      | Startup, shutdown, warning, degraded operation, failure, recovery, and status-publication errors follow the logging and exception-handling baseline.                      |
| Traceability expectation            | Status reporting traces to the reporting implementation participant, the FX logical Node, the Health Reporting Role, the FX Node Status Endpoint, and the FX Node Status. |

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