

10.1 Purpose of the Node Pattern

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The Node implementation pattern helps the team create runtime participants that behave consistently across the Phase 0 Node network. Each Node may represent a different logical role, but every Node should follow the same basic implementation discipline.

The pattern supports four practical goals:

1. Make each Node easy to build, run, observe, and stop.
2. Make each Node report its operational state through the [Control Plane](#).
3. Make each Node traceable to a logical role in the architecture and the FX Demo Logical Profile.
4. Make Node behavior reviewable, testable, and repeatable across developer workstations, test environments, containers, and demonstration environments.

Phase 0 Nodes do not need to implement full financial processing. They need to prove that defined Node Roles can become executable participants in a distributed Node network. A Phase 0 Node should therefore implement enough Lifecycle behavior, Control Plane participation, Configuration, logging, and Exception Handling to demonstrate the implementation pattern.

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