

18.4 Node Implementation Traceability

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Node implementation **traceability** relates an FX logical Node or Node Role to the Phase 0 implementation artifacts that realize it.

A node implementation trace must identify:

1. FX logical Node or Nodes realized
2. FX logical Node Role or Roles performed
3. Implementation node module or runtime participant
4. Process entry point where applicable
5. Supporting modules used
6. DDS Topics published or subscribed to
7. IDL structures and generated types used
8. Runtime Plane or Runtime Planes supported
9. Configuration artifacts used
10. Logging and exception-handling conventions applied
11. Developer Handbook rules applied
12. Review record confirming traceability

Node implementation traceability allows reviewers to confirm that an implementation participant realizes a defined logical responsibility rather than introducing an ungoverned implementation responsibility.

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