CXL Compliance Overview and Update
2023

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CXL Compliance Stage Definitions

Pre-FYI > **FYI** > **General Testing**

- Pre-FYI
  - Test software in Beta State. Tests are under development
- FYI Phase
  - Initiated by a formal release of both the CV app, the EV test criteria, and the release of test capabilities by approved equipment vendors
  - Tests can be removed but not added at this stage
  - Exiting the FYI stage is determined by data collected at CXL workshops
- General Testing
  - Inclusion on Integrator's List

https://www.computeexpresslink.org/integrators-list

CXL Compliance Current Status

- CXL Compliance requirements are listed in chapter 14 of the base spec
- Devices supporting the CXL 1.1 specification are eligible for the integrators list
- CXL 2.0 testing is currently in the FYI stage – anticipate moving to General testing in early 2024
- CXL 3.0 testing is in development

Compliance Changes since CXL 2.0 release

- Compliance mode DOE required, no longer optional
  - DVSEC interface to capabilities removed in CXL 3.0
- Additional error injection capabilities defined in CXL 3.0 DOE
- CXL 2.0 Engineering Change Notices have moved into the main spec
  - Secure IDE Establishment
  - CXL.mem error injection
- Cleanup of test format
  - Test Topologies
  - Pre-requisites
  - Pass/fail criteria

Test Revisions and Groupings

- Test Features are being implemented asynchronously from CXL major revisions

- Test Groups offer a mechanism to provide compliance information outside of strict major revision boundaries

- Grouped by sub-sections of test spec and/or ECN's

- Compliance Statements can be made against test groups
  - CXL 1.1 Core
  - CXL 2.0/1.1 Backward Compatibility
  - CXL 1.1/2.0 Mem

Q&A

Please share your questions in the
Question Box

Thank You

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