CXL Compliance Overview and Update
2023

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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