Cisco Developer Network (CDN) Unified Communications Interoperability Verification Testing Program Overview

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Overview

Program Objectives:

- Provide verification that 3rd party CDN product meets the following criteria:
  - –Successfully Integrate and scale as defined by program guidelines
  - –Operate and perform as indicated in collateral and specifications (from integration perspective only)
  - –Successfully integrate with Cisco products while **not adversely affecting** Cisco product operation

Program Goal:

- Ensure Quality integrations with 3rd party products by:
  - –Performance and load testing of integration points/functionality.
  - –Validation of redundancy (Failover/Failback)
  - –Validation/Evaluation of 3rd party Integrated Features
  - –Fulfill TAC and Developer Services testing requirements for providing Coordinated Support benefits to customers of Cisco/3rd Party Products

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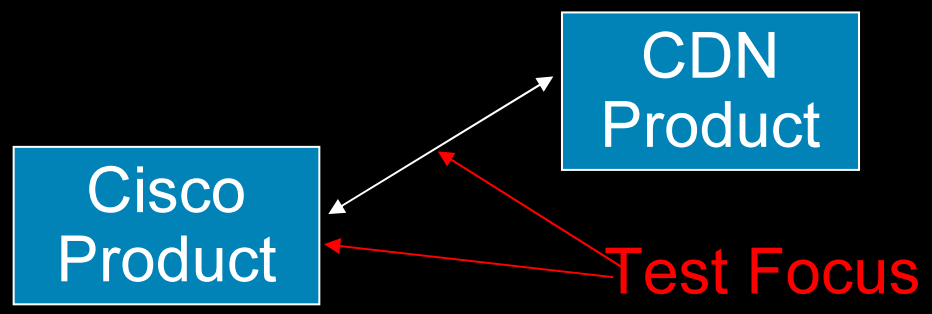
CDN Unified Communications Interoperability Focus

- **Testing is focused on integration points of partner products and Cisco products, not on the product itself.**
- **Types of tests executed:**
  - Functional verification of interfaces between partner product and Cisco product.
  - Load/Performance testing (traffic over time) using a subset of functional test scenarios
  - Negative testing (connectivity failure, redundancy, recovery)



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Methodology

The Cisco Developer Network (CDN) Unified Communications Interoperability Verification Testing (IVT) program uses Risk Based Testing (RBT) methodology. This is a successful method most applicable to systems environments or multiple product solutions. The method uses expertise in the area of systems to assign risk to specific areas in the design and focus testing in that area. In other words, it focuses on the "biggest bang for the buck" testing; meaning testing is specific to those areas that can result in issues that cause outages or business process breakage. This type of testing, is generally, not end user focused from a usability perspective and rarely identifies low severity/low impact issues. This methodology would not be used in cases of pure User Acceptance Testing, as that would have a specific functional and usability agenda.

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Risk Based Testing Overview

- Risk Based Testing by identifying areas of certain risk through requirements and architectural analysis.
- Testing focused on integration points of products in the deployment, not on the products themselves.
- Focused testing on “Highest Risk Functionality”

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