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InterOperability Laboratory (UNH-IOL)

For new and prospective UNH-IOL Members

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Outline

Overview of UNH-IOL

UNH-IOL Avnu Certification Testing Options

Avnu Alliance Certification Testing Process

Working with UNH-IOL
InterOperability Laboratory

UNH-IOL is a non-profit neutral, third-party laboratory dedicated to testing networking and data communications products. Since 1988, the laboratory has fostered multi-vendor interoperability while preparing students for careers in the industry.

The laboratory has grown steadily into one of the industry's premier independent proving grounds for new technologies.

27,000+ sq. ft lab facility
• In-house group test space has a capacity for up to 100 with flexible configurations, electrical and network drops and fully equipped audio system.
InterOperability Laboratory

About the UNH-IOL

● Learn more about our Mission, Vision, and Values
● The History of the UNH-IOL
● Industry-Recognized Test and Reports
● Expertise and Infrastructure
● Training Tomorrow's Engineers
UNH-IOL Avnu Certification Testing Options

• Option 1: **Annual Membership** - UNH-IOL Avnu Certification Test Service
  • Annual Membership provides the best value to our customers.
  • Current fee: $20,000 USD per 12 months of access:
    • Annual access to testing, tool support and test result consulting
    • Members may reserve dedicated testing time for pre-testing or for formal certification testing
    • 50% reduction in test tool pricing
    • No other fees required

• Option 2: ‘Pay-per-Test’
  • Non-members may elect to pursue testing on a ‘Pay-Per-Test’ basis
  • Currently offered at $8,000(Endstation), $10,000 (Bridge) per one full test run (one product, one firmware, all certification tests performed once)
  • A Full member may pay the ‘Pay-Per-Test’ fee to reserve additional test periods.

• Options 3:
  • A customer may expedite testing when scheduling for additional fee.
    • This testing typically occurs after hours and on weekends
    • Must have a vendor representative available for questions off-hours.

Information on this page is current as of 2020/04, subject to change, refer to [www.iol.unh.edu](http://www.iol.unh.edu) for the latest fee information
Avnu Alliance Certification Testing Process

- Must be a member in good standing of the Avnu Alliance.
  - Must have TID issued from Avnu for certification testing to begin
- Work with UNH-IOL to pass all required certification tests
  - Typically for devices that have not been pre-tested it takes multiple reservations to pass all required tests.
  - UNH-IOL provides raw real-time testing updates with logs/captures.
- Device passes all required tests
  - Passing reports submitted to Customer who provides them to Avnu Alliance
    - UNH-IOL will submit reports to Avnu Alliance upon request of the customer
  - Customer provides Avnu with Logo Application Form
Working with UNH-IOL
Scheduling Process

• First-come, First-serve fair-access scheduling
  • “Fair access” – For each membership, one reservation can be held in the calendar at a time. For Annual members, this generally translates to 6-8 reservations per year per membership.

• 2 week reservation test-slot (not all testing/reports will be completed in the 2 weeks)

• During an active test reservation re-booking is allowed Friday noon of the second active week.

• Applies to UNH-IOL Avnu Certification Test Service Members and Pay-Per-Test customers alike.
Plan for Testing

- Pre-testing (suggested)
  - Options to pre-test in-house using our Violett® for Avnu test tool.
  - Pre-test at UNH-IOL as a member (Join Here)

- Avnu requires that a TID be issued for any formal certification reservation. Please contact TPM@avnu.org for information on this process. UNH-IOL can not do formal certification testing without a TID from Avnu.

- Devices must arrive the Thursday before the scheduled week.
  - 2 devices are required, if only 1 is available, then all testing may not be able to be completed in one test reservation.

- Reminders:
  - Lead time may vary from 2 to 8 weeks + (This varies depending on number of tests selected, technical difficulties with the product, firmware updates and technician availability)
Device Updates

• We do allow firmware updates with prior approval during pre-certification testing.

• After a new firmware is provided, Members¹ may request to spot check a previous failure.

• For a single scheduled test period, the default action is to test all certification tests for a single firmware. When firmware changes, customer direction is requested to either:
  • Complete testing on old firmware; or,
  • Complete remaining tests on new firmware

Note: For certification, passing results must be observed for all tests on a single firmware

¹”Members” refers to UNH-IOL Avnu Certification Test Service Members.
Expectations: During a testing reservation

- Attending a reserved test-slot is permitted with advance notification.
  - All access to the lab is escorted, we may not be able to accommodate coverage 8-4:30 but can arrange a schedule.
- Testing occurs during the reserved period as technicians are available, this might not be uniform through a given week due to the our student technician’s class schedule. All testing may not be completed within a 10 day period.
- Scheduled calls during your test weeks so that any issues can be quickly addressed.
- During certification testing, vendor interaction with the DUT is not allowed unless strictly supervised.
- Confirmed device issues are reported as soon as practical.
Expectations: After a test slot

- Formal reports will be provided for all certification runs.
- For pre-certification or debugging testing, formal reports are provided upon request
  - Live results are available real-time
- Allow ~15 business days following a test slot for the reporting process, including review, to be completed.
- Captures and logs provided through online means
Expectations: Between test slots

• Members of the UNH-IOL Avnu Certification Test Service may:
  • Provide new firmware at any time for installing by UNH-IOL technicians as time permits
  • Members may request “Spot-checking” of previous device failures
    • This service is provided on a best-effort basis as time allows

• Pay-Per-Test customers:
  • May provide firmware updates before their scheduled test period for installing by UNH-IOL technicians
  • “Spot-checking” between test periods is not available to pay-per-test customers.

• Any claims of test/tool/tester error will be investigated promptly
Wrap Up

Thank you for your interest in the Avnu Alliance Certification Process and UNH-IOL

Make use of the UNH-IOL developed tools for your in-house pre-certification testing

Engage with UNH-IOL early to assist and accelerate your in-house effort:
• Pre-test with UNH-IOL to build confidence faster as a Full Member of the UNH-IOL Avnu Certification Test Service

Plan for test
• Pre-test early and often.
• Certification testing may require 2-4 full iterations before passing all required tests

The UNH-IOL team looks forward to working with you!
Thank You For Your Time

Avnu Testing Service
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Please contact avblab@iol.unh.edu with any questions or requests

For more information please refer to http://www.iol.unh.edu/avnu

To request a quote / join: https://www.iol.unh.edu/membership/join