

NTS Market Spotlight: Consumer Products

Specialists in Certification and Compliance Testing



NTS executes, manages and assists in the development of numerous certification programs.



Our years of experience can help you successfully complete your certification.



NTS has the tools and equipment necessary to get your product tested.

Certification and Compliance Experts

NTS works closely with various organizations to develop, manage, and run certification and compliance programs, including USB, WHQL/DTM, ZigBee, MoCA, DIRECTV, SiriusXM Radio, ISA and HealthVault. With the vast number of groups and specifications, it is important that your product function correctly. Let NTS perform compliance testing on your product so you can make sure it's ready for release!

Programs include the following:

USB Testing

Get all your USB peripherals tested! USB Compliance (High-speed, full-speed and low-speed silicon, peripheral, and system/hub/host controller); USB On-The-Go Compliance (High-speed and full-speed products); USB Embedded Host Compliance (High-speed and full-speed hosts); USB Wireless Compliance; and USB 3.0 compliance – Coming Soon!

Microsoft WHQL/DTM Testing

Get your hardware product logo'd for Microsoft Windows. We'll perform all the Microsoft approved testing so that you can apply for certification. Support for all WHQL/DTM product categories, debugging, etc.

ISA 100.11a

NTS has assisted in the development of the ISA 100.11a certification program and we can perform stack and device testing. NTS is the only test lab to offer stack, device, debugging, pre-qualification testing, etc. as authorized by the ISA.

DIRECTV

NTS is the exclusive test lab to conduct DIRECTV testing so that you can get your product certified. We can assist with the testing, debugging, etc. Get your DIRECTV supported product tested and certified.

Multimedia over Coax Alliance (MoCA)

NTS is the exclusive test lab for compliance testing so that you can get your product certified. We can assist with self testing, debugging, and core testing.

ZigBee Certification

NTS has assisted in the development of the ZigBee certification program, and we can perform IEEE 802.15.4 PHY/MAC, ZCP Module and End Device. NTS has developed test harnesses to support the various profiles (e.g., Smart Energy [SE], Home Automation [HA], RF4CE, etc.).

SiriusXM Radio

NTS is the exclusive test lab to perform SiriusXM approved testing for conformance. Contact us for more information on getting your satellite radio products tested and certified.

Microsoft HealthVault

Get your medical product logo'd for Microsoft HealthVault. We'll perform all the Microsoft required testing so that you can apply for certification. We can assist with debugging, testing, driver development, etc.

Others

Universal Plug & Play (UPnP), Digital Living Network Alliance (DLNA), xD Picture Card Connector, as well as many others. Please check NTS' website for more information.

Others in Development

More coming soon! And, if you're a member of a new standards group, contact us to assist your group in the development of certification/compliance programs. Certification is the best way to insure a standard's successful adoption.



NTS uses the latest technology to verify the compatibility, functionality and compliance of your products.



Technology, skills, and experience to test all of your computer technology products.



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NTS Compliance Programs

In the real world, it's not enough for a product manufacturer to simply prove that it has correctly followed the specifications for a technology. You don't want to spend all of your time debugging other manufacturers' designs. To address this common concern, NTS has developed several independent compliance programs:

- ▶ NTS USB & Wireless USB Golden Suites – Focuses on real-world testing of your USB product with a variety of platforms, chipsets, peripherals and operating systems.
- ▶ NTS Automotive Multimedia Player – Compatibility and functionality testing of devices, plus interoperability with flash drives, mini-hard drives and MP3 players.
- ▶ NTS Wireless Performance Certification – Competitive analysis testing for Line-of-Site, Non-Line-of-Site for commercial/residential and open-field. Let NTS assist you in verifying that your product works in the real-world!
- ▶ NTS Bluetooth Golden Suite - Focuses on real-world testing of your Bluetooth product with a variety of mobile devices, computer platforms, PDA's Add-in cards, etc.

Traditional Testing

Compatibility

Exercising software or hardware under an array of supported operating systems, additional software applications and supported hardware

Interoperability

Exercising hardware with a selection of hardware and software to confirm "harmonious coexistence" of the products

Stress/Performance/Load/Scalability

Using either actual users or virtual users with tools such as LoadRunner, WebLoad, WinRunner, WebFT, TCL, Test Director, Visual Test and Open Source

Benchmarking

Using internal-developed or third-party benchmark tools

Competitive Analysis

Comparing client's product with competitor's product

Functionality

Exercising the various execution paths, either manually or through automated scripting tools such as WinRunner, Visual Test and WebFT

Automated Test Scripting

Develop automated scripts using various test tools, LoadRunner, WebLoad, WinRunner, WebFT, TCL Test Director, Visual Test, Open Source, C, C++, Delphi, Visual Studio and Visual Basic

Usability/Look-&-Feel

Provide end-user analysis with various user experience (i.e., novice, intermediate, expert, etc.)

Security

Test to various security standards such as Common Criteria, ICOSA, IEEE 802.1x, etc. using various third-party tools

Website Testing

Functionality, browser compatibility, load/stress/performance using automation tools such as LoadRunner or WebLoad

Localization

Software compatibility and functionality test across 35 different languages, such as FIGS, CCJK, etc.

Test Plan/Test Case Development

Develop customized test plan/test case based on client's specification and/or product documentation

Let Us Help You Develop a Certification Program

If you're a member of a new/existing standards group, contact us to assist your group in setting up, executing, and/or managing a certification/compliance program. NTS works closely with various groups (like the ZigBee Alliance) to assist them in the development, launch, execution, and management of successful certification and compliance programs.

Our experienced test experts can help your group throughout the process, from preliminary review of standards to development of certification procedures and the execution of the certification program, NTS will be there. We execute programs for successful companies and groups including Microsoft, USB, MoCA, DIRECTV, ISA, SiriusXM Radio, ZigBee and many others. Certification is the best way to insure a standard's adoption.