

NTS SERVICE SPOTLIGHT

ADVANCED TECHNOLOGY

ABOUT NTS ADVANCED TECHNOLOGY

NTS Advanced Technology provides a wide range of testing and compliance services, as well as managed services, to the computer and consumer software and hardware industry. A leader in the computer and consumer testing industries, we provide high quality testing services which range from standard hardware and software testing to the development of complex certification and compliance programs for the telecom and other industries. With NTS's inventory of test equipment and highly skilled engineers, we can perform most any testing, including compatibility, functionality, interoperability, competitive/comparative analysis, usability, test plan development, system integration and certification.

INDUSTRY LEADING TESTING

NTS can provide the skills and equipment you need to make sure your product is ready for release. We can develop or assist in the development of test plans and methodologies, as well as setup and perform testing. Each test project is customized to meet the needs of our customer. At the completion of each test, NTS provides complete reports of all test cases executed, anomaly reports for each defect, regression reports, final summary reports, and/or other reports based on the actual requirements or customer's request. It's our job to make sure that your product release is successful, and we are unparalleled in our ability to assist customers through the entire product lifecycle.



NTS personnel have an average of 10 years of experience in product testing.



NTS can verify compatibility, functionality and compliance



We have the right technology, skills, and experience

We specialize in testing products for quality assurance and compliance. Our expert test personnel will exercise your hardware and/or software against the latest industry standards using state-of-the-art test equipment. With decades of experience and extensive hardware and software testing knowledge, NTS is the perfect out-sourced testing laboratory for all your testing needs.

CERTIFICATION AND COMPLIANCE PROGRAMS

NTS also works closely with various organizations to develop, manage, and run certification and/or compliance programs including USB, WHQL/DTM/WHCK, ZigBee and Multimedia over Coax (MoCA). With the vast number of industry groups and specifications, it is important that your product function correctly per industry standards. 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 ensure a standard's successful adoption.

ABOUT NTS

As one of the largest commercial test laboratory networks in North America, NTS offers test, inspection and certification services for environmental, dynamics, EMC, wireless, product safety, materials, ballistics and much more. Our client partners rely on NTS to bring quality products to market quickly and efficiently, and so can you.

HIGHLIGHTS AND PRIMARY TEST SPECIFICATIONS

Compliance & Certification Testing

- USB Compliance Testing – Covering the entire spectrum of USB certifications, including:
 - » USB 3.1 SuperSpeed Certification testing of devices & system/hub/host controllers
 - » USB 2.0 High-speed, full/low-speed devices, silicon, and system/hub/host controllers
 - » USB On-The-Go for high-speed and full-speed products
 - » USB Embedded Host testing for high-speed and full-speed products
 - » Wireless USB certification testing
- ZigBee Certification – Covering all the ZigBee products and profiles, including:
 - » ZigBee Platform (PHY, MAC & ZCP) and ZigBee Network Devices (Gateways, etc.)
 - » ZigBee 3.0
 - » ZigBee Profiles (Smart Energy, Home Automation, Remote Control/RF4CE, Health Care, Building Automation, Input Devices, Light Link, Retail Services, Telecom)
 - » In addition, custom test harnesses to verify the various profiles – the same tools used by NTS for certification!
- PG&E HAN Validation Testing
- SDG&E HAN Validation Testing
- Multimedia over Coax Alliance (MoCA) certification testing for your home entertainment networking devices, including MoCA 2.0
- DIRECTV certification testing, covering Hi-RF, Mid-RF & DECA
- Microsoft WHQL/DTM/WHCK – Support for all product categories
- Compliance/Certification Program Development

Quality Assurance Testing

- Compatibility – Exercising software or hardware under an array of supported operating systems, additional software applications and supported hardware
- Interoperability – Exercising hardware to confirm “harmonious coexistence” of the products
- Performance – Exercising hardware under various distances/range and/or environmental conditions

Quality Assurance Testing Continued

- Benchmarking – Using internal-developed or third-party benchmark tools
- Competitive Analysis – Comparing client’s product with competitor’s product
- Usability/Look-&-Feel – Provide end-user analysis with various user experience
- Functionality – Exercising the various execution paths, either manually or through automated scripting tools such as WinRunner, Visual Test and WebFT
- Website Testing – Functionality, Browser Compatibility, Load/Stress/Performance using automation tools



Complex network and test environments to validate your high-tech products.

- Localization – Software compatibility and functionality test across 35 different languages
- Custom Test Harness – Develop custom hardware and software tools in order to perform repeatable, automated testing on standards or specifications.
- 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
- Test Plan/Test Case Development – Develop customized test plan/test case based on client’s specification and/or product documentation

