

## NTS Facility Spotlight: Culver City, California

### Specialists in Computer and Consumer Technology Testing



Custom compliance programs developed, executed, and managed to ensure successful adoption of your standard.



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



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

#### About NTS Culver City

NTS Culver City 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, NTS Culver City provides 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 large inventory of test equipment and highly skilled engineers, we can perform most any testing, including compatibility, functionality, interoperability testing, competitive analysis, performance testing, load/stress testing, usability analysis, test plan development, and system integration and certification.

#### Industry Leading Testing

NTS Culver City can provide the skills and equipment you need to make sure your product is ready for release. NTS can develop or assist in the development of test plans and methodologies, as well as setup and perform testing. Each test project is customized by NTS to meet the needs of our customer. During and at the completion of each test, NTS provides standard deliverables including 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 Culver City specializes 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, Multimedia over Coax (MoCA), ISA100.11a, and Sirius XM). 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

NTS is a world leader in assisting organizations to access domestic and international markets. We are a single source for a full range of integrated engineering solutions, product testing, standards compliance, project management staffing solutions, engineering and managed services. Globally accredited by leading regulatory agencies, NTS can provide cost-effective programs to meet your requirements at one of our many U.S. or international facilities, or we can provide on-site solutions. NTS is the nation's largest independent standards compliance and product testing company serving companies within the aerospace, defense, automotive, telecommunications, electronics, power, medical device, computer, software and financial markets.



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



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



National Technical Systems  
5730 Buckingham Parkway  
Culver City, CA 90230

[www.nts.com](http://www.nts.com) | 1.800.270.2516  
[sales@nts.com](mailto:sales@nts.com)

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## Highlights and Primary Test Specifications

### Compliance & Certification Testing

- ▶ USB Compliance Testing – Covering the entire spectrum of USB certifications, including:
  - USB 3.0 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.)
  - Smart Energy Profile 1.X – 2.0 coming soon!
  - Home Automation Profile, Remote Control/RF4CE Profile, Health Care Profile
  - Building Automation Profile, Input Device Profile, Light Link Profile
  - Retail Services Profile, Telecom Services Profile, 3D Sync Profile
  - In addition, custom test harnesses to verify the various profiles – the same tools used by NTS for certification!
- ▶ Multimedia over Coax Alliance (MoCA) certification testing for your home entertainment networking devices
- ▶ DIRECTV certification testing, covering Mid-RF & DECA – Hi-RF coming soon!
- ▶ Sirius XM certification testing for all your satellite radios – only authorized lab
- ▶ Wireless Compliance Institute ISA100.11a certification testing for wireless systems for industrial automation
- ▶ Microsoft WHQL/DTM/WHCK – Support for all product categories
- ▶ Compliance/Certification Program Development – Let NTS assist you in the development of a program to validate your standard/specification!

### Quality Assurance 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
- ▶ Usability/Look-&-Feel – Provide end-user analysis with various user experience (i.e., novice, intermediate, expert, etc.)
- ▶ 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 such as LoadRunner or WebLoad
- ▶ Security – Test to various security standards such as Common Criteria, ICASA, IEEE 802.1x, etc. using various third-party tools
- ▶ Localization – Software compatibility and functionality test across 35 different languages, such as FIGS, CCJK, etc.
- ▶ Custom Test Harness – Develop custom hardware and software tools in order to perform repeatable, automated testing on standards or specifications. Custom harnesses include ones developed for the ZigBee certification program.
- ▶ 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