

Telcordia  
**Network & Product Integrity  
Services**

**001**  
Mitigate the risks of product development and acquisition

**002**  
Meet your time-to-market commitments

**003**  
Safeguard your reputation for reliability and quality

Telcordia Network & Product Integrity Services are the industry's most trusted "safety net" for new communications technology. Rigorous analyses and tests, powered by Telcordia innovation and experience, give suppliers and service providers confidence that the products they make or purchase are designed, manufactured, integrated, and deployed right the first time.

► The development and deployment of any new technology or innovation is inherently risky for both the suppliers who make it and the service providers who rely on it. The fallout from design flaws, incompatibility, and reliability problems can be virtually immeasurable. It is not unusual for a design or production defect to cost tens of millions of dollars in rework, liability, and/or customer churn.

And with service providers transitioning to IP-based network services built on an infrastructure using delicate fiber optics — with connectors and splitters deployed in neighborhoods, rather than protected in central offices — the stakes and risks are rising.

That's why authoritative product analysis and testing as early as possible in the development or procurement cycle is a step no supplier or service provider can afford to skip.

**SEND A SIGNAL TO THE INDUSTRY**

Many companies perform product testing. However, no organization shares the Telcordia record of innovation and global reach in telecommunications and the respect we have earned among suppliers and carriers. Our analysis and testing services reflect our expertise developing leading telecom standards, network requirements, and Operations Support Systems (OSSs), and our experience managing the world's most complex deployments.

A Telcordia compliance report speaks volumes to the industry and will help you to raise the confidence of your customers. It is objective



assurance that a product has been subjected to the most thorough, best-case-to-worst-case analyses.

It is why suppliers regularly turn to us for product design evaluation and testing to verify compliance with industry standards and their customers' requirements. And it is why carriers look to Telcordia to help define new application requirements to meet more demanding and cost-effective deployment needs.

### START EARLY

Imagine knowing how a product will perform in the field while that product is still in the design phase.

To gain that invaluable business intelligence, we encourage clients to use our services as early as possible in the product or procurement lifecycle. That is the best vantage point from which to identify requirements that can be built into products to make them more sellable, more reliable, more easily maintained, and less costly. It also offers more opportunities to spot potential problems with existing specs and suggest new ideas about how to create a truly robust design and then build or deploy a product faster and more cost-efficiently.

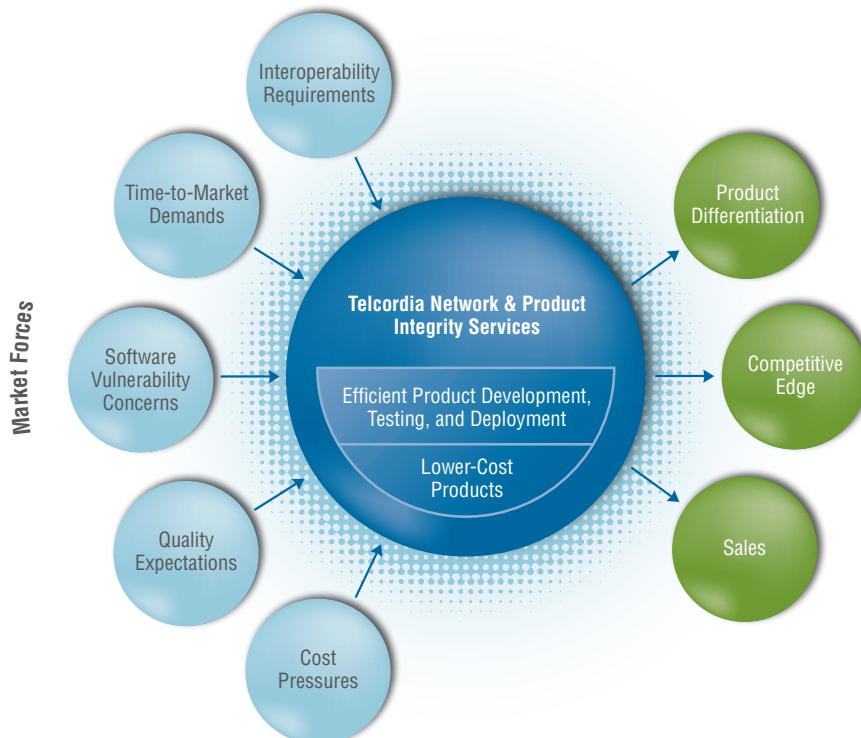
### COVER EVERY BASE

Whatever stage we enter the process, our experts and facilities can simulate, analyze, and/or test virtually any communications technology.

### TELCORDIA TESTING SERVICES

Telcordia Testing Services have earned the trust of suppliers and service providers worldwide. With unparalleled testing facilities, analytical experience, and leadership in setting the industry's technical and environmental testing standards, we can deliver objective verification that a communications product is built right, performance-ready, and compliant with industry and carrier requirements. Our labs are ISO 17025 accredited and we are an approved ITL for many large carriers.

### Telcordia Network & Product Integrity Services



With more than \$60 million in testing assets, we can model entire, live, configurable network environments, from traditional circuit-switched to the latest wireline, mobile, fiber, and Internet Protocol (IP) technologies, including Gigabit Passive Optical Networks (GPONs) and IP Multimedia Subsystem (IMS). As the creator of industry-wide Telcordia® NEBS™ Technical Services guidelines, we can subject your products to the universe of physical and environmental threats. And with our software vulnerability testing, we can provide a superior level of confidence that your products will meet the demands of carriers and the network security community.

#### SELECT FROM A FULL-SERVICE SUITE

Telcordia offers an unparalleled breadth of network and product integrity services, all of which can be customized for your business, including:

- **Optical Technology Analysis & Testing Services** – We are one of the world's most trusted providers of consulting, technical analysis, and product qualification and certification services for passive and active fiber optic components, including optical fiber, optical cable, optical connectors, fiber optic attenuators, optical splitters, couplers, fiber amplifiers, optical transceivers, and more.
- **Telcordia® NEBS™ Technical Services** – Telcordia NEBS requirements are the most widely used safety, spatial, and environmental design guidelines for telecom equipment in the U.S. Our physical protection services safeguard your network components, as well as the facilities that house them, from any man-made or natural assault — fire, temperature extremes, contaminants, moisture, earthquakes, vibrations, and more.
- **U.S. Carrier Readiness** – For international suppliers who want a competitive edge in the U.S. market, we use our knowledge of U.S. networks and operations, industry relationships, and standards expertise to help you design, test, integrate, and deploy network products that satisfy U.S. carriers' quality expectations, time-to-market pressures, interoperability requirements, and cost concerns.
- **Testing & Analysis for Cable Providers** – For cable media validation and interoperability tests, we can custom-design and/or use existing Telcordia test plans to execute conformance tests and produce distributable reports on your switching systems, call features, voice quality, billing capabilities, alarm functionality, generic interfaces, and more.
- **Software Vulnerability Testing Services** – We can provide an increased level of confidence in a product's ability to successfully withstand hacker attacks. Our service can help identify and resolve software product flaws before they are discovered by hackers, and thus prevent unexpected security and performance weaknesses in your network devices. We will perform a suite of intelligent, model-based tests against any network appliance's external interfaces, using the state-of-the-art Codenomicon DEFENSICS™ testing platform to perform random-input or "fuzz" testing.

#### AT A GLANCE

- Telcordia Network & Product Integrity Services are designed to deliver real business benefits including:
  - Credibility for your brand and reputation
  - Accelerated time-to-market for new products and services
  - Maximum revenues and margins
  - On-budget development programs
  - Installations and turn-ups that work right the first time.



- **Signaling Analysis & Testing Services** – As the developer of generic requirements for the SS7 protocol and SS7-based network elements, we are uniquely qualified to test products for compatibility and performance in SS7 and SS7-over-IP environments.
- **GPON Analysis & Testing Services** – When GPON equipment and systems go to market, carriers expect that they have been fully tested for performance, reliability, and interoperability. Our analyses deliver that assurance by drawing on our GPON expertise — we were first to host a GPON interoperability test; we are a leading developer of GPON test plans; and we are an active member of the Full Service Access Network Group (FSAN).
- **Test Outsourcing Services** – Whether you need independent third-party verification or access to special testing resources, we can confirm market-readiness or functionality at any production phase, and we can perform those evaluations in our state-of-the-art labs or your live environment.
- **Lab Access Services** – Gain remote or local access to Telcordia testing equipment — the only objective, third-party test facilities in the U.S. with actual, multilayer network elements, the latest production hardware, and a full range of generic switch and network element software.
- **CPE Analysis & Testing Services** – For any type of traditional, DSL, IP, or cable Customer Premise Equipment (CPE) — including Integrated Access Devices/Terminals, SOHO/Residential Gateways, Broadband Terminal Interfaces/Modems, and DSL modems — we can help with technical analyses at any stage in development from product definition through prototyping, production, and integration.
- **System Reliability Analysis** – With our knowledge of all major switching and transport technologies, we can save you unnecessary maintenance and repair costs by spotting reliability issues early in the design or production process, and issue a report that demonstrates conformance with customers' requirements.

## GET IT RIGHT

- With the expertise to
- solve the world's most
- complex communications
- challenges, Telcordia is
- known for helping its customers
- get it right so they can reap the
- greatest business benefits.
- Our Network & Product Integrity
- Services are part of our broad
- offering of products and services
- designed to help you operate more
- efficiently, drive revenues, and deploy
- innovative new services

## SPEAK WITH AUTHORITY

When you work with Telcordia, you benefit from the breadth of our expertise in traditional networks, advanced intelligent networks, mobility, IMS, and converged services, and our history with industry leaders and all major standards bodies. You can also leverage the Telcordia Professional Services team to explore more, fresh ideas about ways to achieve operational excellence. All of us stand ready to apply our innovation, experience, and reach to your business.



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