

Communications Tester



Laptop software that offers portable, flexible, and easy-to-use management of smart grid devices:

- » Pairs with a Silver Spring Field Service Unit to establish secure, encrypted maintenance links with field and lab devices
- » Enables easy data collection and troubleshooting
- » Supports firmware upgrades, meter register reads and more than 200 other commands for configuring and testing Silver Spring devices

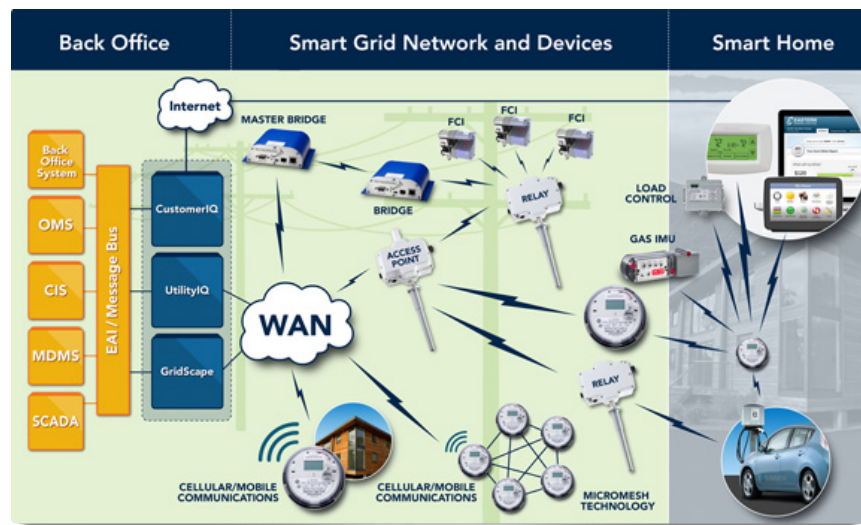
Administer and troubleshoot any Silver Spring smart grid device

The Silver Spring™ Smart Energy Platform combines network infrastructure, software, and professional services to enable a range of smart grid applications. To accommodate lab testing, partner OEM manufacturing, and in-field testing needs, Silver Spring has developed a set of handheld and laptop-based tools.

The Communications Tester (formerly Communications Access Test Tool) is a PC-based application for field and lab testing of Silver Spring Communications Modules, Access Points, Relays, Bridges, and Gas Interface Management Units (IMUs). In conjunction with the Silver Spring Field Service Unit (FSU), the Communications Tester enables engineers and technicians to transmit and receive messages to and from these devices, log the data, and analyze the results. For example,

the operator can perform firmware upgrades, read meter tables, check configuration options, collect radio frequency statistics data, and exercise other troubleshooting features. Communications Tester also supports user-created compound commands, session logging, and results export.

Communications Tester implements operator- and administrator-level permissions, and it features an automatic token countdown for additional security. This security feature tracks the number of operations a user performs and prevents the operator from performing additional operations once the allotted “tokens” are exhausted. Communications Tester is compatible with secure, encrypted FSUs and is backwards compatible to earlier versions of FSUs.



An advanced, IP-based network enables the smart grid—from the data center to the customer premise.

About Silver Spring Networks

Silver Spring Networks is a leading technology platform and solutions provider for smart energy networks. We have connected over 11 million homes and businesses throughout the world with the goal of achieving greater energy efficiency for the planet. Our innovative products enable utilities to gain efficiencies, integrate renewable energy sources and empower customers to monitor and manage energy consumption. Silver Spring Networks clients include Baltimore Gas & Electric, CitiPower & Powercor, Florida Power & Light, Jemena Electricity Networks Limited, Pacific Gas & Electric and Pepco Holdings, Inc. among others. For more information please visit www.silverspringnet.com.

Communications Tester

System requirements:

- » Windows XP Service Pack 3
- » Communications Tester 6.0 supports Windows XP or Windows 7, 32-bit and Microsoft .NET Framework v3.5 SP1
- » USB port
- » Compatibility with USB hardware device drivers and with Microsoft ICCD smart card driver
- » CD-ROM drive (for application installation)

The Command List shows the predefined commands that can be executed on the device.

The Device List shows the Silver Spring devices in range, with details such as signal strength.

Set command and execution parameters or run predefined scripts.

Track command execution status.

View the command output.

The screenshot shows the following interface elements:

- Command List:** A tree view on the left containing categories like Antenna, External, Internal, CommServer, DNS, DNS Server, Ethernet, and General Configuration. The 'DNS Server' category is expanded to show 'DNS Server, Add', 'DNS Server, Set', and 'DNS Server, Remove'.
- Device List:** A table with columns: Name, MAC Address, Device Type, Issi, Age, and Comments. It lists several devices with their respective MAC addresses and device types (e.g., 'lgr_wcard').
- Command List:** A table with columns: Name, Type, Description, and Show Command List. It lists commands like 'DNS Server, List', 'Device Info, Get', and 'Device Type, Get'.
- Command Execution Table:** A table with columns: Command, Device, Run Mode, and Progress. It shows the status of various commands being executed on different devices.
- Text Output:** A log window at the bottom showing the results of commands, such as 'Sending get_DeviceInfo to FFD' and 'Received get_DeviceInfo response from FFD'.