

# Network Quality & Performance Assurance Solution IP Test Solution

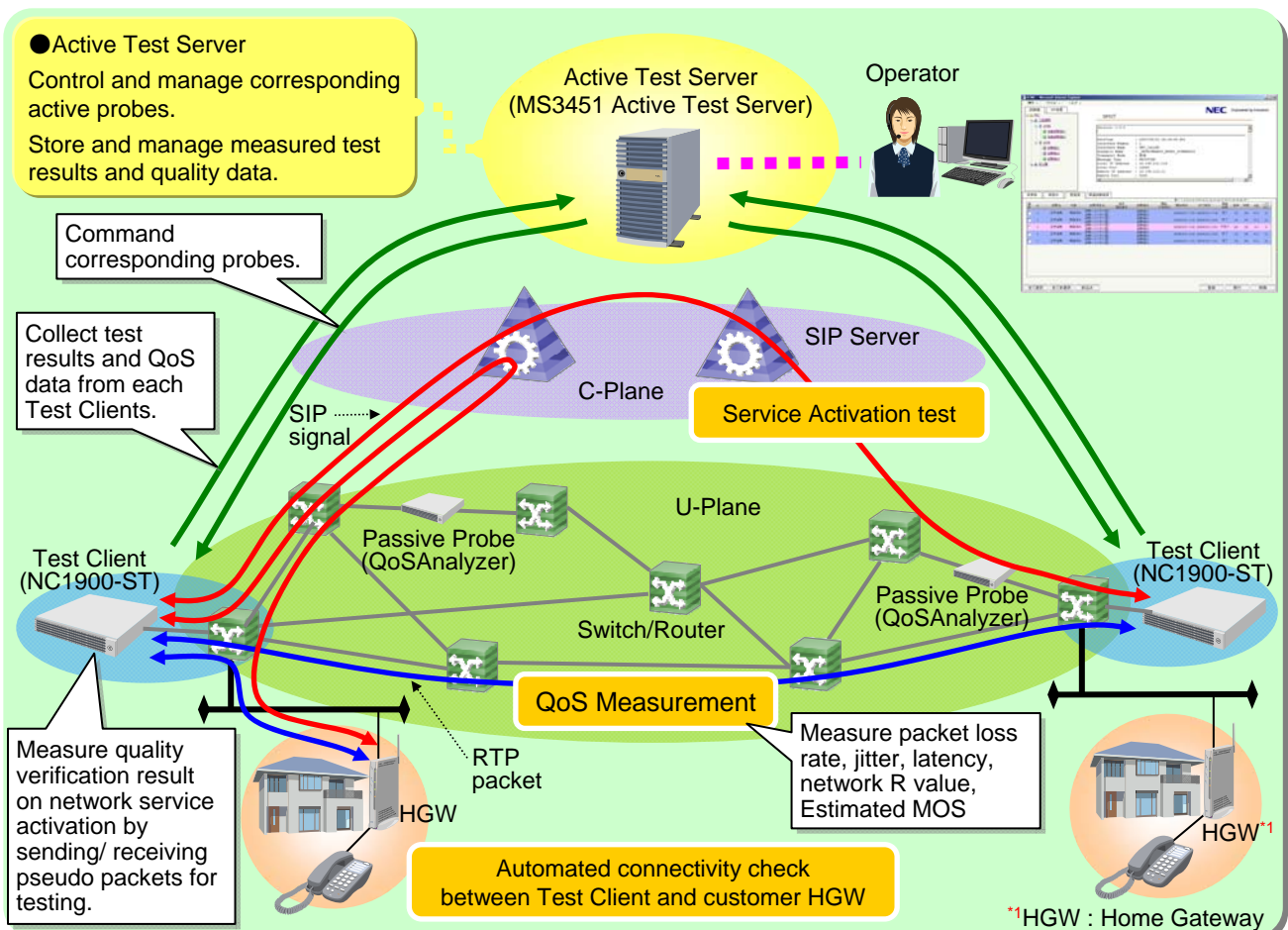
## IP Test Solutions for construction and operation phases of IP networking

### Features

- Isolates the degradation link on the managed network by measuring QoS of SIP/VoIP connection between the test clients
- Checks connectivity and quality level of SIP and RTP packets upon activation of the subscriber lines

### Overview

- With connectivity check on SIP packets (signaling) and quality verification on RTP packets (Voice/Video data), this solution allows to perform manual or automated testing based on predefined schedules at installation phase of the network service, at verification phase of activating subscriber lines, and operation phase.



## Advantages

2 core products, “NC1900-ST” and “MS3451 Active Test Server (ATS)”, allow to build the following solutions:

### ■ Testing Solution for System Installation

Performs a sanity check upon installation of an NE and/or network using NC1900-ST solely or with ATS. Using ATS allows to perform automated (unmanned) testing remotely based on the predefined schedule.

### ■ Testing Solution for Subscriber Line Activation

Performs connectivity checks and QoS verification for SIP(C-Plane) and RTP(U-Plane) upon activation of the subscriber lines using NC1900-ST and ATS.

### ■ Testing Solution for Operation & Maintenance

Performs scheduled tests for various VoIP services to ensure connectivity and QoS of the network using ATS and NC1900-ST.

### ■ Testing Solution for Problem Isolation

Detects and isolates the root cause of network problems using ATS/NC1900-ST. ATS/NC1900-ST perform active testing.

### ■ Testing Solution for Services

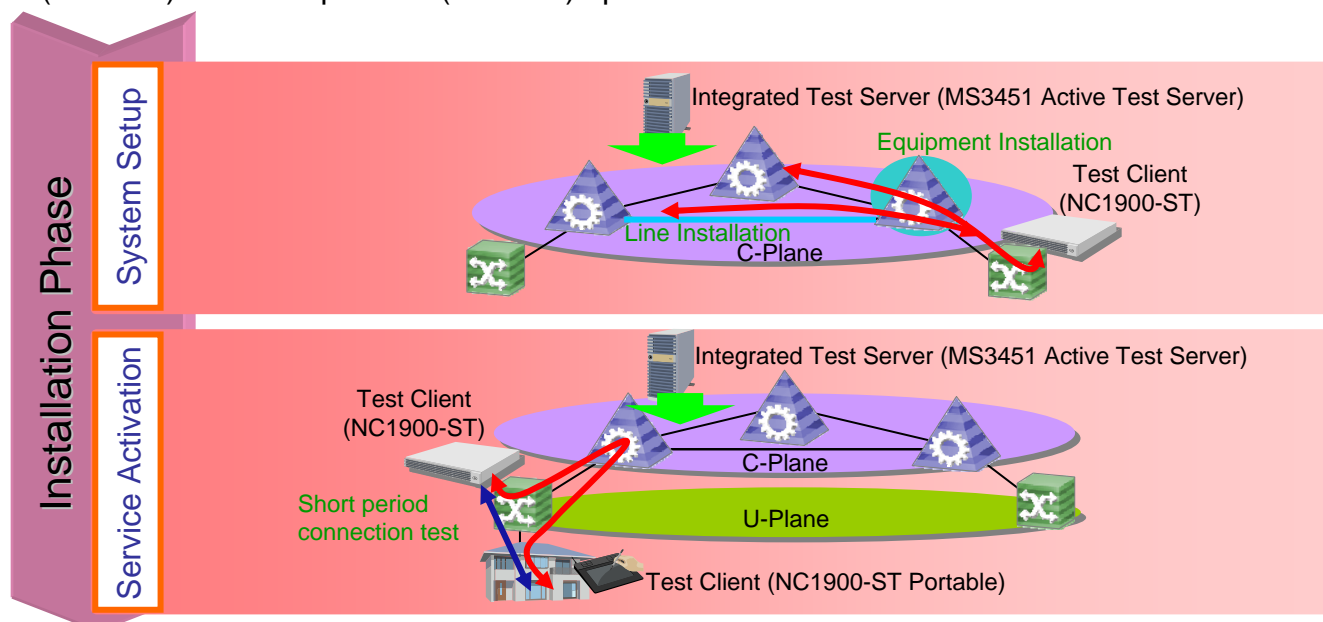
Provide several testing functionalities for checking service qualities, SLA<sup>\*2</sup>, SPAM detection, and service analysis.

<sup>\*2</sup>SLA : Service Level Agreement

## Application Examples

■ Test Clients (NC1900-ST), deployed on the managed network, performs connectivity testing between SIP servers to verify network configuration.

■ Portable-type Test Clients (NC1900-ST) connecting to Automatic Response-type Test Clients (NC1900-ST) performs connectivity checks and quality verification of SIP packets (C-Plane) and RTP packets (U-Plane) upon activation of the subscriber lines.



●The name of companies and products that appear in this catalog are trademarks or registered trademarks.

●If this product (including the software) is specified as a restricted item by the Foreign Exchange and International Trade Law, it is necessary to apply to the Japanese government for an export permit prior to taking the product out of Japan.

●The color of the products in this catalog may vary somewhat from the actual colors because of the printing process. The form or specifications of these products may change without prior notice for purposes of improvement.

### Contact Us

Network Management Systems Division, 1st Network Software Division

For general contact, E-mail [neqpas-info@nsjh.jp.nec.com](mailto:neqpas-info@nsjh.jp.nec.com).

For contact about the NC1900-ST, E-mail [contact@nc1900st.jp.nec.com](mailto:contact@nc1900st.jp.nec.com); about the MS3400 Series, E-mail [inetwork2-info@nmsd.jp.nec.com](mailto:inetwork2-info@nmsd.jp.nec.com).

NEC Corporation

Shiba 5-7-1 (NEC Headquarters Bldg.), Minato-ku, Tokyo, 108-8001, Japan