

Dialogic® DSI Signaling Transfer Point based on Dialogic® DSI G5V Signaling Controller

Dialogic® DSI Signaling Transfer Point (DSI STP) based on the Dialogic® DSI G5V Signaling Controller is a compact, cost-effective software only telecommunications signaling platform, providing core network connectivity for use in all-IP signaling environments. The DSI STP supports comprehensive Screening capabilities in addition to routing at the MTP and SCCP levels and Global Title Translation. The DSI STP features a browser-based graphical user interface (GUI) for all operations, administration, maintenance and provisioning functions. The GUI supports dynamic configuration, status and alarm monitoring, interactive control and a wide range of diagnostic capabilities. A multi-user environment - complete with password security, configurable user privileges and full audit trail - adheres to chosen security policy. The DSI STP supports multiple protocol variants allowing worldwide deployment in both fixed and mobile networks.



Dialogic® DSI G5V Signaling Controller

Features	Benefits
Software-only appliance for deployment under VMware or KVM using a single OVF distribution.	Allows the user to provision the optimal amount of resource and to select hardware platform of choice
Worldwide protocol support (including ITU-T, ANSI, China, Japan) for both telephony and transaction-based operation with SCCP Global Title Translation	Facilitates global deployments and the ability to configure protocol variants at runtime
Screening and routing based on OPC, DPC, SCCP Called & Calling Address, SSN, MAP Operation Code and others	Puts the operator in control of the way the network is used
Supports built in browser and command line interface for OA&M in addition to SNMP	Facilitates comprehensive, user-friendly remote management using standard tools without the need for an expensive Element Manager
Built-in periodic traffic measurements, event logging and protocol tracing (including PCAP format), backed by documented internal interfaces between protocol layers	Provides good visibility of utilization and traffic levels; facilitates fast resolution of network protocol issues
Ability to interwork between different network types including National/International, ETSI/ANSI and support for Alias Point Codes	Resolves basic interworking needs without requiring external protocol conversion
Flexible capacity-based licensing	Allows increased platform capacity to be added over time to match deployment needs

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Resiliency and Scalability

The DSI STP can be deployed as a stand-alone unit or in a dual active/active configuration for resiliency and high availability. For larger deployments, instances can be stacked to provide a distributed STP with no single point of failure. A single STP instance requires just 4GB of memory, 50GB of storage and can operate on a range of CPU cores from 2 to 24 with up to 8 virtual Ethernet ports.

Multi-Purpose Signaling Transfer Point

In addition to operation as a Signaling Transfer Point, the DSI STP addresses a wide range of interworking needs. As an SCCP Router it provides the Signaling Point Relay (SPR) capability to pass messages between networks, allowing routing based on OPC, DPC, SSN, Global Title, any field in the SCCP Called or Calling Address or the MAP Operation Code. It provides Load Balancing, Global Title Translation and Network Topology Hiding. As an STP it provides routing of messages based on any field in the MTP Routing Label and supports policing to prevent unauthorized use of signaling relationships.

Figure 1 provides an example of how a Dialogic® DSI G5V Signaling Controller can be deployed as a Signaling Transfer Point in a typical network configuration.

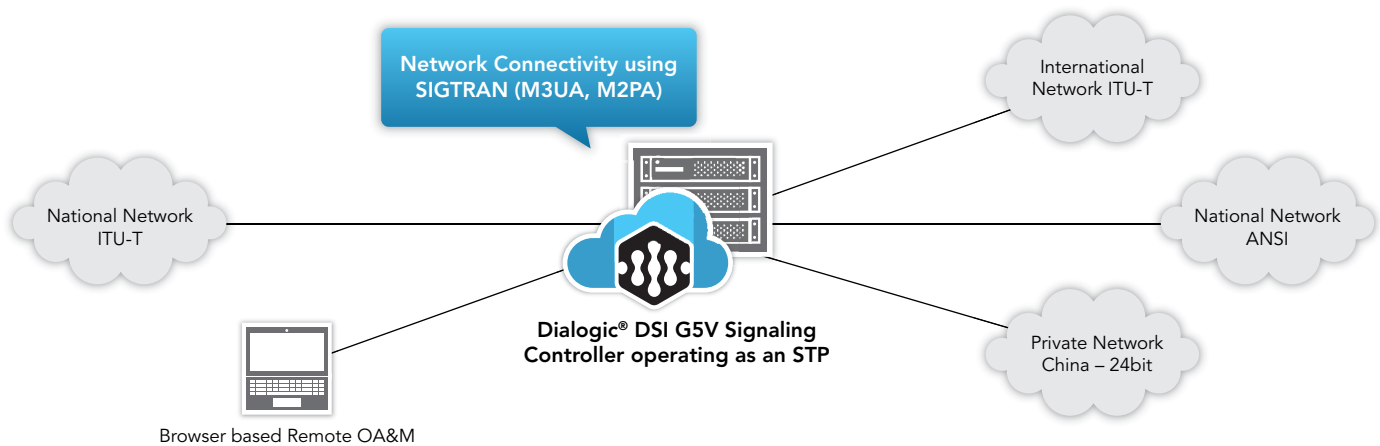


Figure 1. Dialogic® DSI G5V Signaling Controller operating as an STP

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Technical Specifications

Host Requirements	
Hypervisor requirements	x86 platform running VMware vSphere ESXi or KVM on CentOS or RHEL
CPU Clock Speed	2.4 GHz or faster (recommended)
CPU Cores	Between 2 and 24 virtual CPU cores
Memory	Between 4 GB (recommended) and 12 GB RAM
Disk Space	50 GB
Network Interfaces	Between one and eight 1Gigabit Ethernet (1GbE) interfaces

Capacity	DSI-G5V
Maximum number of SIGTRAN associations	256
SIGTRAN Protocols supported	M3UA, M2PA
Number of separate network contexts	4
Maximum MTP3/M2PA link sets per unit	120
Maximum number of SS7 routes	4096
Global Title Capacity	30,000
Throughput (MSU/sec)	60,000
Global Title Translation throughput (GTT/sec)	60,000

Service plans

See Dialogic® Pro™ Services information at www.dialogic.com/products/services

For More Information

For more information about the product discussed in this datasheet, contact your local Dialogic representative. Worldwide contact information can be found online at www.dialogic.com/contact.



www.dialogic.com

For a list of Dialogic locations and offices, please visit: <https://www.dialogic.com/contact.aspx>

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