

BroadCloud™ PacketSmart™ for Assessment

BroadCloud PacketSmart is a powerful toolkit for network assessments. Comprised of Assessment, Verification, Diagnostics and Monitoring, BroadCloud PacketSmart is a life cycle management solution that ensures VoIP and H.264 video services are deployed correctly, accepted by the customer and monitored to meet customer satisfaction.

PacketSmart Solution

BroadCloud PacketSmart for Assessment combines probes positioned in the WAN and LAN with a BroadCloud-based analytics platform that generates a rich set of analytics from synthetic calls and assessment reports.

Unlike many solutions that require investment in an analytics system, BroadCloud PacketSmart analytics are delivered through a cloud-based SaaS subscription.

This reduces the capital expenditures (CapEx) needed to deploy BroadCloud PacketSmart and the operating costs associated with maintaining systems while using BroadCloud PacketSmart for LAN and WAN assessments.

PacketSmart probes exchange RTP media traffic across the LAN and WAN to stress networks, to establish Quality of Service (QoS) and validate concurrent call capacity for VoIP and H.264 video.

BroadCloud PacketSmart for Assessment helps installers identify networking problems and improve quality control by assessing and validating wide area network (WAN) and local area network (LAN) to ensure successful installation of communications services like VoIP and H.264 video.

Installer Benefits

- Fewer follow-up truck rolls at the installer's expense
- Clearly identifies network professional service engagement opportunities
- Faster and more effective installations— for both basic installs and multi-step engagements

Service Provider Benefits

- Network verification reduces customer service calls
 - Establishes a network baseline for customer service reference
 - Openly identifies the need for additional, potential revenue-generating WAN capacity
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Two probes are used on the customer network (LAN) to implement our LAN Assessment services. The probes consist of two compact router-agnostic devices that an installer plugs into the customer network to:

1. Generate SIP signaling with synthetic RTP media traffic as flat assessment of synthetic calls up to 50 calls
2. Inspect synthetic media traffic and live voice, H.264 video in conjunction with IT traffic
3. Send performance data to a BroadCloud-based analytics platform

To assess the LAN, one probe is positioned off the LAN-facing Ethernet port on the access device. The second probe is placed across the LAN and exchanges data with the first probe to stress and test network capacity, configurations and performance based on packet loss, jitter and QoS supported.

To assess larger call-handling capacities, BroadCloud PacketSmart offers greater call generation capabilities, starting with the PI-500 appliance server.

Summary

BroadCloud PacketSmart is a proven solution that enables clear performance of VoIP services prior to customer turn up.

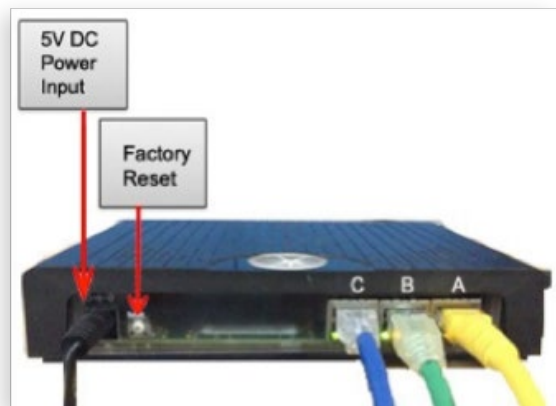
BroadCloud PacketSmart assessment testing helps installers and service providers make sure that real-time application services are turned up right the first time.

Using BroadCloud-based analytics, BroadCloud PacketSmart helps reduce the cost to deploy and operate the solution.

Equipping your installers with BroadCloud PacketSmart brings immediate operational savings by reducing the time to deploy services and the amount of non-chargeable rework or truck rolls.






Example of a 5 call ramp assessment to test WAN circuit capacity with packets (top) and data rates (bottom)



Power Supply	100 to 240V AC with output to MA 12 Volts 1 amp
Display	LED indicators
Interface Type / Speed (A,B, & C)	Gigabit Ethernet/1000 base T
Ethernet Cable Type	Straight-through or cross-over cables (CAT 5, 5e and 6) MDI/MDIX
VoIP Call Generation Protocols	SIP, UDP-RTP
Data Upload Protocol	HTTP (80) / HTTPS (443)
IPV4 & IPV6 Support	Yes
SIP Ports Used for VoIP Call Generation	Default UDP ports 5060 & 5061 1024 To 10000 are Configurable
RTP Ports Used for VoIP Call Generation	Default UDP-RTP ports 15000 thru 16000 10000 To 65535 are Configurable
Network discovery / Trace route ports	Only UDP ports 33434 thru 33534 (not configurable)
VoIP Concurrent Call Generation for Audio	From 1 to 50 calls for 72 Hours. Depending on Product License Type
VoIP Concurrent Call Generation for Audio/Video (Call Load)	H.264 HD-5 CCS H.264 Large-10 CCS H.264 Medium-15 CCS H.264 Small-20 CCS H.264 Mobile-30 CCS
VoIP Concurrent Call Generation	50 calls with 60Mbps for UDP & 40 Mbps TCP
Max Monitored throughput performance	150 Mbps for UDP @ 12,700 PPS 140 Mbps for TCP @ 12,800 PPS
Max Monitored throughput performance	150 Mbps for UDP @ 12,700 PPS 130 Mbps for TCP @ 16,000 PPS
Data Pass-Through Wire Performance On Ports A & B (single direction Without calls)	950 Mbps for UDP & 935 Mbps for TCP
Data Pass-Through Wire Performance On Ports A & B (Bi-direction Without calls)	470 Mbps for UDP & 460 Mbps for TCP
NAT Support	YES
Fail-Safe	YES
CE/FCC/Intertek/ROHS	YES

About BroadSoft

Cloud business unified communications, team collaboration and contact center Software-as-a-Service (SaaS)

	Company	NASDAQ: BSFT	\$341M Revenue (2016)	25% CAGR Since '10	1,800 Employees (2016)	80+ Country Presence
	Channels	25 of the top 30 service providers by revenue		600+ Channel Partners	\$8B Estimated enterprise revenue based on BroadSoft solutions	
	Leadership	#1 Global Market Leader	41% Market Share	16M Business lines installed base (Q4 2016)	85M+ Estimated total end users served	

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