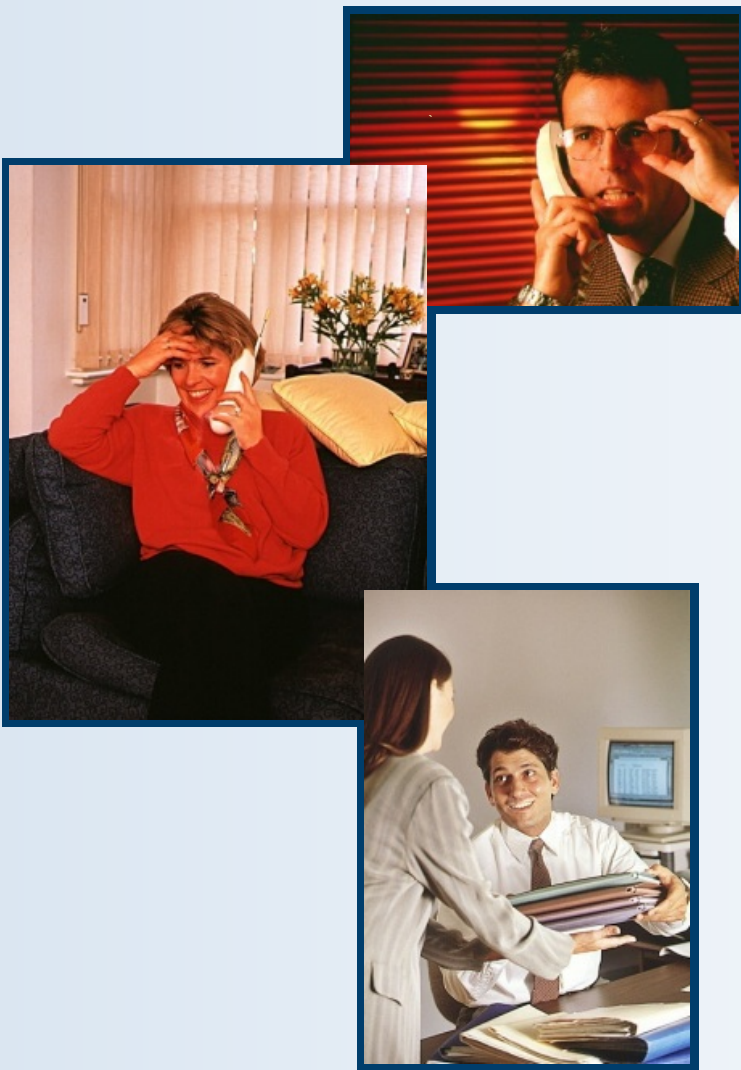


H.M.Net Technologies Inc. Provisionning & SIP Diagnostics tools



<http://www.hmnet.net/>

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TECHNOLOGIES

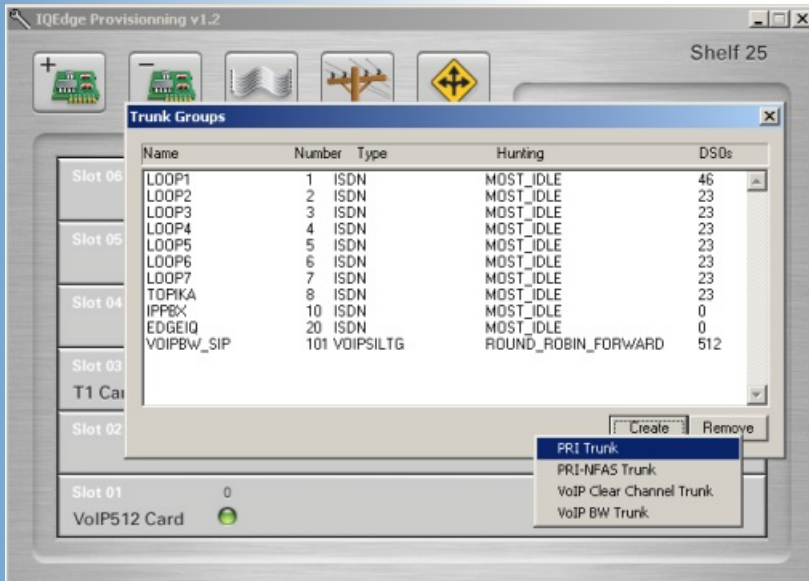


VSS provides a full GUI provisioning tool for the Versatel's EdgeIQ platform. With this tool, you can easily:

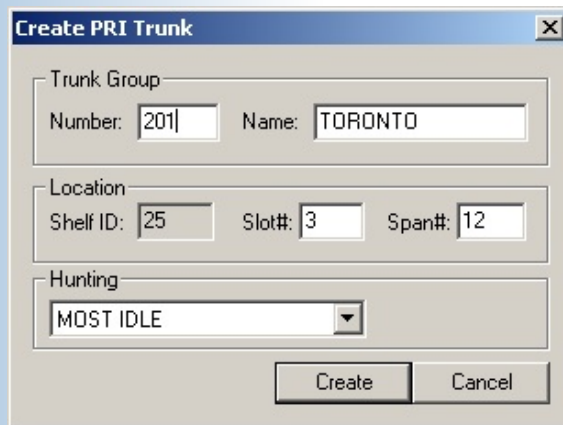
- Add or remove hardware cards (blades)
- Enable or disable a T1 or VoIP span.
- Add PRI-T1 trunks.
- Assigned T1 or VoIP channels to trunk groups
- Create new routeset and assign trunk groups to a specific routeset
- Change the bus clocksource.
- and much more.

Trunk Groups

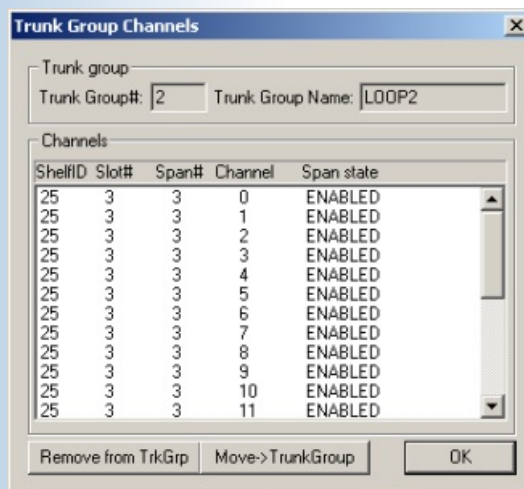
3



To create a PRI-T1 trunk group, you just click on the telephone post button, click on create and select which type of trunk group to create.



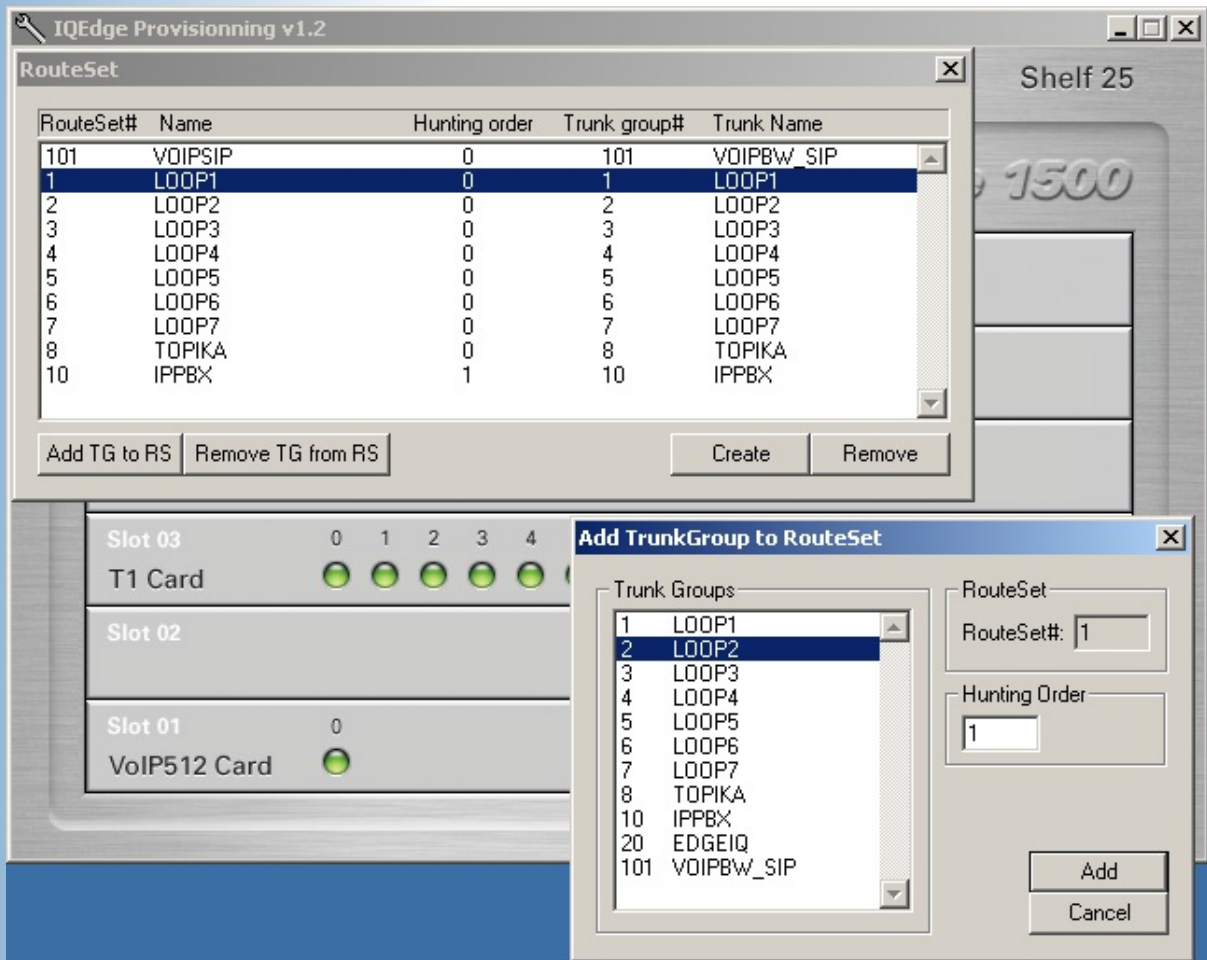
Enter the appropriate information and your trunk group is created.



You can also double-click on an existing trunk group to find which channels are assigned to this trunk group.

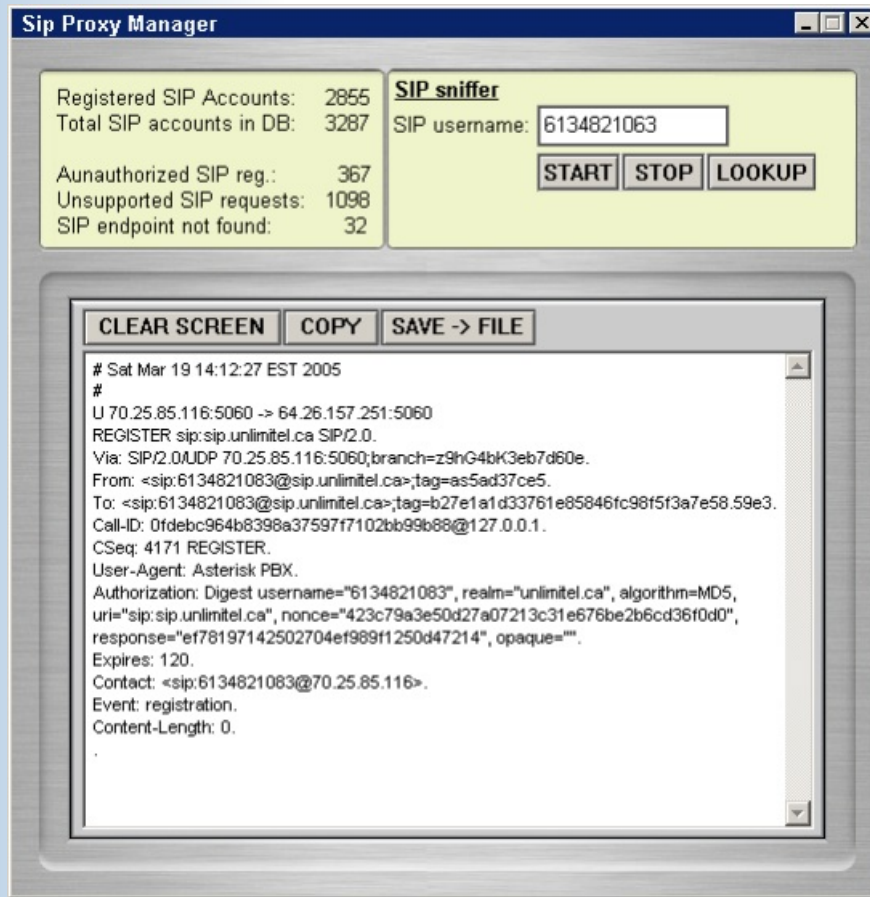
RouteSet

4



To assign trunk groups to a specific routeset, clicked on the routeset icon, then select which routeset you want to add a trunk group.

Now click on the Add TG to RS button. Select which trunkgroup to add, enter the order and click add.



The SIP Proxy manager helps us to diagnose any SIP problem:

- Filter all SIP messages between the SIP gateway, the SIP Proxy and the SIP client by specifying just the SIP account.
- Search the current information about any registered SIP client.

All the information can be saved to a file or to the clipboard.

NO MORE UNIX COMMANDS!

VoIP Quality monitor

6

Virtual Soft-Switch v1.90, capacity of 400 calls

Last hour		Today		System informations	
ASR:	0%	ASR:	0%	Link Status:	StandBy
Total active calls:	0	Peeked active calls:	0	In-Service channels:	767
Total call attempts:	0	Total call attempts:	0	CDRs in queue:	0
Total processed calls:	0	Total processed calls:	0	Available memory:	189MB
Total network blocked:	0	Total network blocked calls:	0	CPU performance:	0%
Total insufficient channels:	0	Total call insufficient channels:	0	Up for:	1 days, 23 hours, 41 mins

GATEWAY	Last 5 mins	Last 15 mins	Last 60 mins
	Quality% / Jitter%	Quality% / Jitter%	Quality% / Jitter%
TORONTO	99.98% / 0.01%	99.99% / 0.00%	100.00% / 0.00%
VANCOUVER	99.90% / 0.00%	99.96% / 0.01%	99.99% / 0.00%

VSS version 2.0 will include a new VoIP quality monitoring tool.

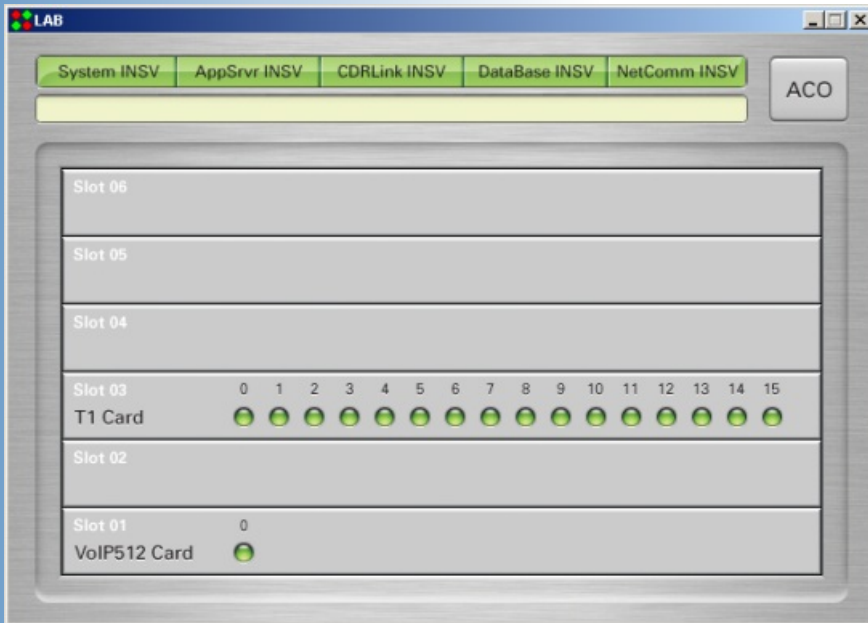
For each gateway provisioned, VSS will be able to display the following information:

- The voice call quality % and the jitter % for the:
 - last 5 minutes
 - last 15 minutes
 - last 60 minutes

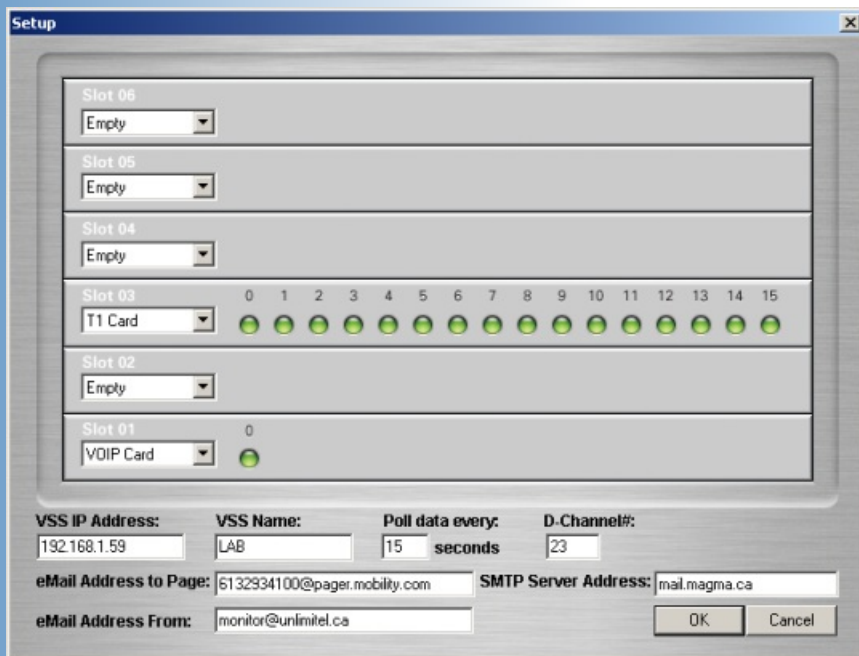
The information is always displayed in near realtime mode.

System monitoring

7



We also designed a tool that runs on a remote workstation to monitor any alarms on the EdgeIQ systems



It's very easy to setup. You can also tell the station to page or send an email each time there's an alarm or when the alarms has cleared.

All these tools are designed to help reduce the amount of time spent on technical support.

A very small amount of people are very well trained to troubleshoot VoIP problems and there's a very few tools available to do the job.

H.M.Net Technologies inc. wants to make this job a lot easier for the personnel who will have to troubleshoot SIP signaling problems and reduce the OP-EX cost to provide an excellent VoIP service.

With the remote monitoring tool, we can have customer care personnel watching the system alarms and dispatch any technician when there's a problem.

After hours, you don't need full-time personnel to monitor the system, you just need on-call personnel with a paging device.

Again, all these tools are designed to reduce operation expenses and increase your profit margins.