

### VIPERSAT CIRCUIT SCHEDULER (VCS)

VCS is a web-based satellite circuit scheduler which automates the setup of ADHOC SCPC connections. Circuits can be scheduled by date/time, circuit type, participating nodes, and data rate, through a web browser interface. Users can also view schedule status including reserved bandwidth slot, real-time link quality, as well as generate analysis reports. The VCS service interacts with the Vipersat Management System (VMS) for the deployment and executing of schedules.



### COMMON APPLICATIONS

VCS simplifies the network setup process and enables bandwidth sharing capacity management for a variety of applications. Examples of common applications are listed below:

- IP video conferencing and collaboration
- News and sporting event video streaming
- High capacity file transfers
- Scheduled Broadcasting
- Distance Learning
- Telemedicine
- End of day transactions

### CIRCUIT TYPES

Various circuit types are supported by the VCS application. Each option was designed for automating the set up of a specific network topology. Circuit types range from simple point-to-point connections, point-to-multipoint connections, Upstream switches, and Single Hop On Demand (SHOD) meshing connections between remotes. The following circuit types are supported:

	P2P	P2M	Upstream
In Band	●	●	●
Out of Band	●	●	

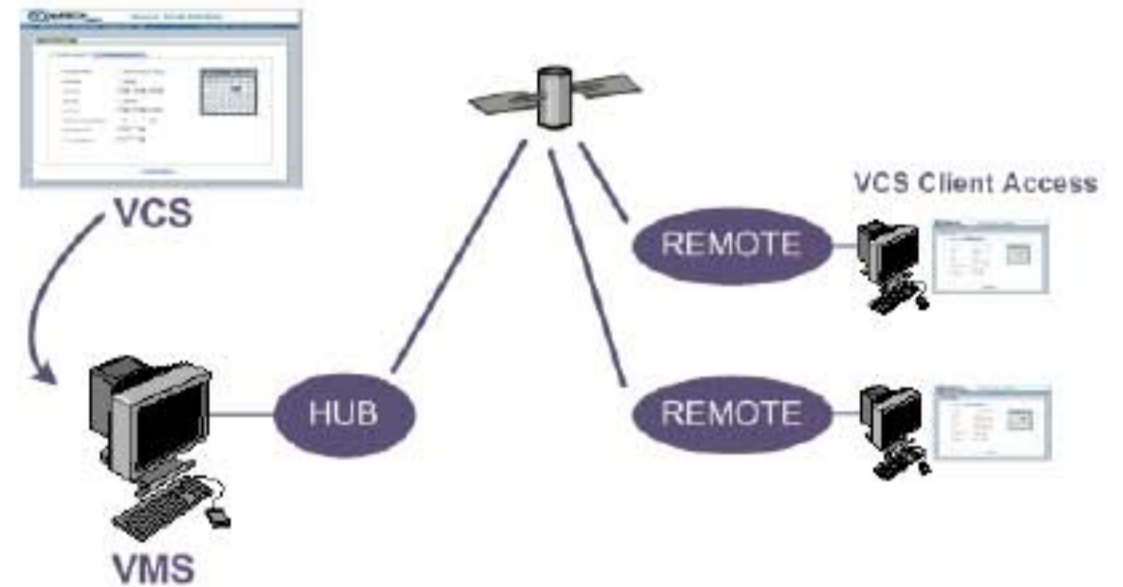
### CONTENTION VERIFICATION

VCS verifies contention between schedules. Priority is given to scheduled circuits over ADHOC circuits for allocation of bandwidth and hardware resources.

### ARCHITECTURE

VCS consists of a web based application and windows services which interact with the VMS, sharing and utilizing existing functionality with the VMS Upstream Management Terminal.

Clients access the VCS by entering the servers URL into a web browser. Upon logging in users are presented with a graphical interface allowing them to view, schedule, and generate reports for the various circuit types.



### TIME ZONE AUTO ADJUSTMENT

Users enter the date/time according to their local time. VCS translates this into Universal Coordinated Time (UTC) for all requests. VCS presents date/time to "non-local" users in their native time, providing ease of use when scheduling circuits.

### DETAILED REPORTING

A variety of analysis reports are provided and facilitate the logging, trending, and troubleshooting of the network. Summaries for completed, running, pending, and failed circuits are provided.

Report types include hourly, daily, monthly, yearly and Top-N reports, all of which can be filtered by location, circuit type, and start/end dates.

Each report contains graphical chart and text information, and is output in .pdf format.

