

Captive Portal, Firewall, and WAN Aggregation Requirements

Feature Lists

RVTEC 2017
Duluth, Minnesota



Satellite Network Advisory Group



Requirements

It is important to define the desired outcomes and constraints up front when comparing multiple technical solutions. Doing makes it easier to objectively identify and eliminate devices that do not deliver the desired outcomes.

Features should be identified as:

- **Requirement** - Must have / Show Stopper features.
- **Ideal** - Very desirable features but which are not required to deliver the core outcomes.
- **Wishlist** - Nice to have features but not mission critical.

Captive Portal

- **R** - Per source/destination IP/DNS Hostname based traffic control
- **R** - Per user based traffic control
- **R** - Up/Down stream daily capacity usage quota (MB per day)
- **R** - Up/Down stream QoS bandwidth usage limits (kbps)
- **R** - Zone / Chain Based Firewall Rules
- **R** - Application Filtering
- **R** - LDAP / RADIUS Authentication Support
- **R** - SSH Command Line Interface
- **R** - Platform / Browser Plugin independent Web User Interface
- **R** - High Availability Configuration
- **R** - Stand Alone Functionality (No Internet Dependencies)

R - requirement **I** - ideal **W** - wishlist

- **I** - Firmware Upload which can be done without Internet Access



- **I** - User Viewable Usage "Meter" Web Page

Satellite Network Advisory Group

<https://satnag.unols.org>

- **I** - Per TCP Session Logging (Packets, Packet Size, Duration, Timestamp)



Firewall

- **R** - Per source/destination IP/DNS Hostname based traffic control
- **R** - Zone / Chain Based Firewall Rules
- **R** - Application Filtering
- **R** - SSH Command Line Interface
- **R** - Platform / Browser Plugin independant Web User Interface
- **R** - High Availability Configuration
- **R** - Stand Alone Functionality (No Internet Dependencies)
- **I** - Firmware Upload which can be done without Internet Access
- **I** - Per TCP Session Logging (Packets, Packet Size, Duration, Timestamp)
- **I** - UTC Timezone support (For consistent logging)
- **W** - RESTFUL API (JSON / XML)

R - requirement **I** - ideal **W** - wishlist

- **I** - SNMP



Satellite Network Advisory Group

- **I** - Custom Configurable and Schedulable Reporting with Email support

<https://satnag.unols.org>

- **W** - Text Based Exportable / Importable Configuration Backup



WAN Aggregation

- **R** - SSH Command Line Interface
 - **R** - Platform / Browser Plugin independant Web User Interface
 - **R** - High Availability Configuration
 - **R** - Stand Alone Functionality (No Internet Dependencies)
 - **I** - Firmware Upload which can be done without Internet Access
 - **I** - Per TCP Session Logging (Packets, Packet Size, Duration, Timestamp)
 - **I** - UTC Timezone support (For consistent logging)
 - **W** - RESTFUL API (JSON / XML)
 - **I** - SNMP
 - **I** - Custom Configurable and Schedulable Reporting with Email support
 - **W** - Text Based Exportable / Importable Configuration Backup
- R** - requirement **I** - ideal **W** - wishlist



Satellite Network Advisory Group

