• Program established 1 January 2010
• Program covers 3 years for 20 users
• Rate reduced from $11.34/MB to $1.52/MB
• Total pool size established at just over 40 GB/Month
• Unused balance will carry-forward month to month for 1 year period
• Within one year period, use or lose
• Negotiating Carry-Forward Allowance in YEAR 1 to 2 Only
• Add more ships?
• If user pool exceeds allowance, use rate increases to $2.28/MB
• FTP site, ftp.whoi.edu, established to allow users to monitor usage. Member institutions provided with individual user and password login information
RVTEC November 2010 – FBB

CUMULATIVE AVAILABILITY vs. CUMULATIVE USE

MBs

450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0

Jan Feb Mar Apr May Jun Jul Aug Sep Oct

Cumulative Usage
Cumulative Availability
Discussion

• FBB is being used more recently. This is good, will continue to monitor
• How often was it necessary to switch from HSN to FBB?
• Feedback on one system vs. the other
• Best Practices? e.g. SIO on Melville
• Other alternatives?
Fleet Broadband Network

- Some interesting information that will help you check their performance.
Fleet Broadband Network

- There is a hidden technical webpage viewer, accessible through your Internet browser.

- This webpage has information that will help you decide whether the system is at fault, or somewhere else.
Maintenance Page

Type in your Web Browser: (case sensitive)

NOTE!
Maintenance page
Hidden maintenance page. Use the below URL.
Java engine will have to be installed.
Maintenance Page

Here is a recent copy of the Atlantis webpage...
### Internal status page for Thrane & Thrane technical staff.

#### SYSTEM
- **Build no.** 1.12, build 3
- **IMEI** 351624020001436
- **IMSI** 901112114105600
- **UT class** 8
- **Temperature** 44
- **Uptime** 12d 02:22:26

#### ANTELLA
- **Type** SAILOR 500 FleetBroadband
- **Status** Not implemented
- **Temperature (hpa)** 34
- **Temperature (acm)** --

#### SATELLITE
- **Name** Americas
- **Position** Lon: 97.6°
- **Elevation** 58°
- **Elevation band** 4

#### IA12
- **Status (AL)** Registered
- **Status (bcn_bct)** Registered
- **Beam type** Narrow
- **Spot id** 17
- **C/No** 68.9
- **Fwd(Rx) frequency** 1540.100 MHz
- **Channel no.** 12040
- **Fwd(Rx) bytes** 364285037
- **Rtn(Tx) bytes** 285213801
- **Tx queue** 0
- **Ciphering** On
- **Dropped packets** 22362
- **CRC errors** 9744
- **Rx retransmissions** 230538
- **Tx retransmissions** 98554
- **BCN status** 2 active connections

#### GPS
- **Fix type** 3D
- **Position** 26°23'30", 24 N
- **Position age (sec)** 1
- **Speed (km/h)** 0.7
- **Heading** 0.0

#### USIM
- **Card status** OK
- **Pin 1 status** OK

---

**Dashboard**

**C/No**

- 80
- 70
- 60
- 50
- 40
- 30
- 20
- 10
- 0

**Rates**

- Rx/Rates
- Tx/Rates

---

**Time**

- 1.0450
- 1.0451
- 1.0452
- 1.0453
- 1.0454
- 1.0455
- 1.0456

**Cno**

- 80
- 70
- 60
- 50
- 40
- 30
- 20
- 10
- 0

**Rate(10^3)**

- 1.0450
- 1.0451
- 1.0452
- 1.0453
- 1.0454
- 1.0455
- 1.0456

**Time**

**x10^3**
Maintenance Page

Contains valuable information about:

- System ID numbers, & temperature of terminal.

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Build no.</td>
<td>1.12, build 3</td>
</tr>
<tr>
<td>IMEI</td>
<td>351624020001055</td>
</tr>
<tr>
<td>IMSI</td>
<td>901112114105601</td>
</tr>
<tr>
<td>UT class</td>
<td>8</td>
</tr>
<tr>
<td>Temperature</td>
<td>42</td>
</tr>
<tr>
<td>Uptime</td>
<td>5d 15:23:07</td>
</tr>
</tbody>
</table>
Maintenance Page

Contains valuable information about:

• Antenna type, High power amplifier temperature (HPA).

<table>
<thead>
<tr>
<th>ANTENNA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>SAILOR 500 FleetBroadband</td>
</tr>
<tr>
<td>Status</td>
<td>Not implemented</td>
</tr>
<tr>
<td>Temperature (hpa)</td>
<td>42</td>
</tr>
<tr>
<td>Temperature (acm)</td>
<td>--</td>
</tr>
</tbody>
</table>
Maintenance Page

Contains valuable information about:

- Satellite being used, Longitude and elevation of satellite.
- (Note, you can use the Longitude to estimate the direction in relation to the vessel’s heading (to check for shadowing.))
Maintenance Page

- System status, beam type & spot number, transmit & receive frequencies/data information through the pipeline.

<table>
<thead>
<tr>
<th>IAI2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Status (AL)</td>
<td>Registered</td>
</tr>
<tr>
<td>Status (bcn_bct)</td>
<td>Registered</td>
</tr>
<tr>
<td>Beam type</td>
<td>Narrow</td>
</tr>
<tr>
<td>Spot id</td>
<td>193</td>
</tr>
<tr>
<td>C/No</td>
<td>67.5</td>
</tr>
<tr>
<td>Fwd(Rx) frequency</td>
<td>1534.100 MHz</td>
</tr>
<tr>
<td>Channel no.</td>
<td>9640</td>
</tr>
<tr>
<td>Fwd(Rx) bytes</td>
<td>2602484013</td>
</tr>
<tr>
<td>Rtn(Tx) bytes</td>
<td>362487367</td>
</tr>
<tr>
<td>Tx queue</td>
<td>0</td>
</tr>
<tr>
<td>Ciphering</td>
<td>On</td>
</tr>
<tr>
<td>Dropped packets</td>
<td>0</td>
</tr>
<tr>
<td>CRC errors</td>
<td>84</td>
</tr>
<tr>
<td>Rx retransmissions</td>
<td>25224</td>
</tr>
<tr>
<td>Tx retransmissions</td>
<td>32005</td>
</tr>
<tr>
<td>BCn status</td>
<td>2 active connections</td>
</tr>
</tbody>
</table>
Contains valuable information about:

- Network-attached Storage (NAS): RX & TX throughputs, number of active or inactive sessions.

<table>
<thead>
<tr>
<th>NAS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rx throughput (KB/s)</td>
<td>1.2</td>
</tr>
<tr>
<td>Tx throughput (KB/s)</td>
<td>0.0</td>
</tr>
<tr>
<td>PS status</td>
<td>Attached</td>
</tr>
<tr>
<td>CS status</td>
<td>Attached</td>
</tr>
<tr>
<td>PLMN status</td>
<td>Selected</td>
</tr>
<tr>
<td>Session status</td>
<td>1 active session</td>
</tr>
</tbody>
</table>
Maintenance Page

Contains valuable information about:

• Carrier to Noise (C/No) signal levels.
Maintenance Page

Contains valuable information about:

- Actual data TX & RX rates through the satellite pipeline.
Here is a handy Telnet trick:

Type:

telnet:/$ cnav –m pos

- This will give you more of the same information, only more detailed.

If the packet sizes are in the millions-
- the radome is probably being shadowed.