Overview

The Multi Router Traffic Grapher (MRTG) is a tool used to monitor and graph performance statistics of SNMP-based equipment. For example, MRTG may be used to monitor traffic on network-links, active callers on a Remote Access Server, internal temperature of equipment, etc.

MRTG generates graphic images that can be used to build web pages. Such a web page may potentially consolidate traffic information from many pieces of equipment. Conceivably, a single web page could provide consolidated monitoring information for a large number of devices.

MRTG provides graphics representing daily, weekly, monthly and yearly views of the monitored devices. MRTG is written in PERL and C and operates under UNIX and Windows NT.

WEB Links

Some helpful links are provided in the table below:

<table>
<thead>
<tr>
<th>Patton’s MRTG Web Site: Monitors Patton RAS devices throughout the U.S.</th>
<th><a href="http://mrtg.patton.com">http://mrtg.patton.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>MRTG Home Page</td>
<td>no longer available</td>
</tr>
<tr>
<td>MRTG Configuration Tips</td>
<td>link no longer available</td>
</tr>
<tr>
<td>Patton’s Knowledge Base</td>
<td><a href="http://www.patton.com/cgi-patton/catalog-bin/allpress.cgi?all=1">http://www.patton.com/cgi-patton/catalog-bin/allpress.cgi?all=1</a></td>
</tr>
<tr>
<td>Patton Electronics FAQ’s</td>
<td><a href="http://www.patton.com/cgi-patton/faq/smartfaq.cgi">http://www.patton.com/cgi-patton/faq/smartfaq.cgi</a></td>
</tr>
<tr>
<td>Patton Electronics Users Group (PUG)</td>
<td><a href="http://pug.patton.com">http://pug.patton.com</a></td>
</tr>
</tbody>
</table>
Example Graphs

In the following pages, four sample graphs generated by a Patton 2996 Remote Access Server will be shown. The first two graphs show the number of dial-in calls over 5 and 30-minute averages. The last two graphs show RAS internal temperature over 5 and 30-minute averages.

Graphs Showing the Number of Dial-In Calls

Active Calls on Patton Model 2996

‘Daily’ Graph (5 Minute Average)

Max In: 92 Active Callers  Average In: 25 Active Callers  Current In: 22 Active Callers
Max Out: 92 Active Callers  Average Out: 25 Active Callers  Current Out: 22 Active Callers

Legend

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN ###</td>
<td>Active Calls</td>
</tr>
<tr>
<td>BLUE ###</td>
<td>Active Calls</td>
</tr>
<tr>
<td>DARK GREEN###</td>
<td>5 minute Active Calls</td>
</tr>
<tr>
<td>MAGENTA###</td>
<td>5 Minute Active Calls</td>
</tr>
</tbody>
</table>
Example Graphs (continued...)

‘Weekly’ Graph (30 Minute Average)

Max In: 92 Active Callers  Average In: 26 Active Callers  Current In: 24 Active Callers
Max Out: 92 Active Callers  Average Out: 26 Active Callers  Current Out: 24 Active Callers

Example MRTG Script: Active Calls

The following MRTG script generated the two active-call graphs shown above:

```
WorkDir: /var/www/html
#### Patton Closet Active Calls ####
Target[pattoncalls]: 1.3.6.1.4.1.1768.5.25.0&1.3.6.1.4.1.1768.5.25.0:monitor@1 92.168.200.1
WithPeak[pattoncalls]: wmy
Unscaled[pattoncalls]: dwmy
Options[pattoncalls]: growright, nopercent, integer, absolute, gauge
MaxBytes[pattoncalls]: 96
AbsMax[pattoncalls]: 96
Title[pattoncalls]: 2996 Active Calls
YLegend[pattoncalls]: Active Calls
ShortLegend[pattoncalls]: Active Callers
Legend1[pattoncalls]: Active Calls
Legend2[pattoncalls]: Active Calls
Legend3[pattoncalls]: 5 minute Active Calls
Legend4[pattoncalls]: 5 Minute Active Calls
PageTop[pattoncalls]: <H1> Patton Dial-Up - Active Calls on Patton Model 2996</H1>

#### end temp ####
```
Example Graphs (continued…)

Graphs Showing RAS Internal Temperature

Box Temp on Patton Model 2996

‘Daily’ Graph (5 Minute Average)

Max In: 49 Degrees-C  Average In: 40 Degrees-C  Current In: 30 Degrees-C
Max Out: 49 Degrees-C  Average Out: 40 Degrees-C  Current Out: 30 Degrees-C

‘Weekly’ Graph (30 Minute Average)

Max In: 49 Degrees-C  Average In: 37 Degrees-C  Current In: 30 Degrees-C
Max Out: 49 Degrees-C  Average Out: 37 Degrees-C  Current Out: 30 Degrees-C
Example MRTG Script: *Box Temperature*

The following MRTG script generated the two box-temperature graphs shown above:

```plaintext
#WorkDir: /var/www/html
####Patton Closet Temp ####

Target[pattontemp]: 1.3.6.1.4.1.1768.20.1.31.0&1.3.6.1.4.1.1768.20.1.31.0:monitor@192.168.200.1
WithPeak[pattontemp]: wmy
Unscaled[pattontemp]: dwmy
Options[pattontemp]: growright, nopercent, integer, absolute, gauge
MaxBytes[pattontemp]: 100
AbsMax[pattontemp]: 100
Title[pattontemp]: 2996 Box Temp
Ylegend[pattontemp]: Box Temp in C
ShortLegend[pattontemp]: Degrees-C
Legend1[pattontemp]: Current Temp
Legend2[pattontemp]: Current Temp
Legend3[pattontemp]: 5 minute Avg Temp
Legend4[pattontemp]: 5 Minute Avg Tem
PageTop[pattontemp]: &lt;H1&gt; Patton Dial-Up - Box Temp on Patton Model 2996 &lt;/H1&gt;
```