RIP Version 2 (RIPv2) WG

31ST IETF – San Jose

December 6, 1994 – 0930-1200

Mailing list:	ietf-rip@xylogics.com
Administrivia:	ietf-rip-request@xylogics.com
Archives:	xylogics.com:gmalkin/rip/rip-arc

Agenda

1 RIP-2 status update

2 Review “RIP-II Cryptographic Authentication” draft

3 Discuss RIPng

4 Review proposed RIP WG charter

5 Any other issues

6 Summary of decisions and action items

RIP-2 Status

Demand Circuit RIP	RFC 1582	Elective
RIP Version 2 Protocol Analysis	RFC 1721	Informational
RIP Version 2 Applicability	RFC 1722	Draft Standard
RIP Version 2	RFC 1723	Draft Standard
RIP Version 2 MIB Extension	RFC 1724	Draft Standard

Cryptographic Authentication

draft-ietf-ripv2-md5-00.txt

Command	Version	unused	
0xFFFF		Authtype = Keyed Msg Digest(3)	
RIP-2 Packet Length		Key ID	Auth Data Len
Sequence Number (non-decreasing)			
Reserved (must be zero)			
Reserved (must be zero)			
Up to 24 RIP Entries (20 bytes each)			
Authentication Data (variable length; 16 bytes for MD5)			

The MD5 algorithm logically append the following during the calculation:

zero of more pad bytes (defined by RFC 1321 for MD5)
64-bit message length MSW
64-bit message length LSW

RIP for IPv6 (RIPng)

draft-ietf-ripv2-ripng-00.txt

<table>
<tr><td>Command</td><td>Version</td><td colspan="2">unused</td></tr>
<tr><td>Type</td><td>Mask Len</td><td>TP Class</td><td>Metric</td></tr>
<tr><td colspan="4">IPv6 Address (16 bytes)</td></tr>
<tr><td colspan="4">Additional RIPng Entries (up to Link MTU)</td></tr>
</table>

Type: Authentication entry (1); IPv6 Route Entry (2)
Mask Length: number of one-bits (starting from the left) in the address mask
TP Class: Throughput class – INT(10 $*$ $\log_{10}$(datarate_in_Kbps))
Metric: number of hops to destination

Proposed RIP WG Charter

Chair:

Gary Malkin gmalkin@xylogics.com

Routing Area Director:

Joel Halpern jhalpern@newbridge.com

Mailing lists:

Discussion:	ietf-rip@xylogics.com
Subscription:	ietf-rip-request@xylogics.com
Archive:	xylogics.com:gmalkin/rip/rip-arc

Description of Working Group:

The RIP Working Group was formed from the RIP Version 2WG, which was originally chartered to create the RIP-2 standard. Since several other RIP-related efforts are also occuring within the IETF, it was decided to create a single WG to handle them all.

The RIP WG is chartered to guide the following proposals and develop the following projects through the IETF standards track:

- “RIP Version 2” (RFC 1723)
- “RIP Version 2 MIB Extension” (RFC 1724)
- “Extensions to RIP to Support Demand Circuits” (RFC 1582)
- “RIP-II Cryptographic Authentication” (Internet Draft)