



Introduction to RPSL

A. M. R. Magee
<ripe-dbm@ripe.net>

A. M. R. Magee • INET-2000 July 2000 Yokohama, Japan • <http://www.ripe.net>



Important RFC's

- RFC-1786
 - RIPE-181
 - RIPE Database
- RFC-2622
 - describes RPSL in detail
- RFC-2650
 - "Using RPSL in practice"
 - tutorial

A. M. R. Magee • INET-2000 July 2000 Yokohama, Japan • <http://www.ripe.net>



Security and Authentication

- RFC-2726
 - PGP authentication for RIPE DB update
 - PGP public keys in the RIPE Database
 - PGP signed transactions
- <http://www.ripe.net/ripenncc/pubservices/db/pgp.html>
- RFC-22725
 - RPS-Sec
 - RPS Security

A. M. R. Magee • INET-2000 July 2000 Yokohama, Japan • <http://www.ripe.net>



Distribution of Data

- Mirroring
- RFC-2769
 - RPS-dist
 - RPS-Replication

A. M. R. Magee • INET-2000 July 2000 Yokohama, Japan • <http://www.ripe.net>



RPSL in the new RIPE Database

- Servers
 - reimp.ripe.net
 - port 43
 - Near-Real-Time Mirror of the RIPE Database
 - reimp.ripe.net
 - port 4343
 - Test database for creating, updating and deleting objects

A. M. R. Magee • INET-2000 July 2000 Yokohama, Japan • <http://www.ripe.net>



RPSL in the new RIPE DB - 2

- Line continuation
 - white-space, tab, "\n" characters
- Comments
 - end at the first "\n" character
- Inverse Queries
 - -imo flag
 - not all members seen
 - use a client e.g. RtConfig
 - impossible for routes

A. M. R. Magee • INET-2000 July 2000 Yokohama, Japan • <http://www.ripe.net>



RPSL in the new RIPE DB - 3

- Order of attributes is preserved/kept
- Object is shown/displayed in a standard way
- The important part of rps-auth (RFC-2725)
 - no “referral-by” attribute
 - new code will allow for this
- PGP
 - authentication only
 - PGP signed messages
 - encryption is unsupported and unnecessary