



CRISP Overview and Update

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Outline

- Background and Overview
- Details of IRIS
- Differences between WHOIS and IRIS
- The Future

Background and Overview

- CRISP is an IETF working group
 - Standardise protocol for domains, numbers, etc.
- Replacement for WHOIS
 - Find authoritative servers
 - Structured queries
 - Well-defined schema for replies
 - Standard error conditions
 - Data integrity
 - Client authentication
 - Referrals

Details of IRIS

- Client/Server protocol, with versioning
- XML-based
- Profiles are defined
 - **dreg covers domain names**
 - **areg covers IPv4/IPv6 addresses & AS numbers**
- Client side referrals (like non-recursive DNS)
- Service location is profile-dependent
- Entity identifiers allow globally unique naming
- Client authentication helps mining prevention, etc.

Differences between WHOIS and IRIS

- IRIS client that understands **areg** required
- **No information only useful to maintainers**
 - MNTNER, IRT, “mnt-by:”, “mnt-lower:”, etc.
 - “notify:”, “mnt-nfy:”, “upd-to:”, etc.
 - Changed information is only a date
- **No routing information**
 - “import:”, “export:”, “default:” in AS numbers
 - ROUTE and INET-RTR types
 - Sets types, AS-SET, ROUTE-SET, etc.

Example

aut-num: AS30720



admin-c: HVEN1-RIPE

tech-c: HVEN1-RIPE

mnt-by: RIW-MNT



changed: 20031111

source: [redacted]

The Future

- IETF Activities
 - Mature and finalise **areg draft**
 - **Move areg to standards-track RFC**
- **Server Prototype to test technology**
 - **Using Verisign reference implementation**
 - **Proxy to WHOIS server**
- **Client author outreach**