Moira Technical Overview

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Moira serves as MIT's system of record for
Architecture: Protocol & APIs
Systems Overview Diagram
Learn more

Moira serves as MIT's system of record for

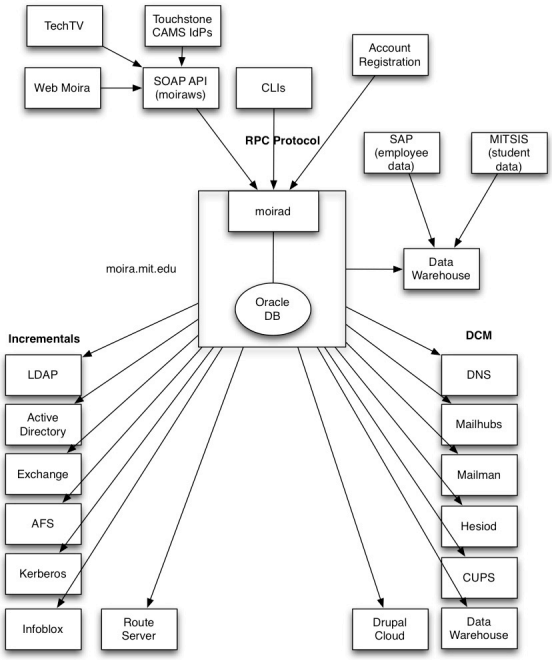
- Users (Kerberos, AFS, LDAP, Active Directory, Hesiod, Warehouse)
- Lists / Groups (AFS, LDAP, Active Directory, Hesiod)
- Networks, Hosts & IP address assignments (DNS, AD, Hesiod)
- Printers (CUPS, SAP)
- File systems (AFS, Hesiod, a tiny bit of NFS)

Architecture: Protocol & APIs

- Primary API: C implementation of Kerberos-authenticated RPC protocol.
  libmoira: mr_connect(), mr_krb5_auth(), mr_query(), etc.
  libmrclient: helper library / convenience functions.
  Additional language bindings for Java (JNI), Perl, Python.

- SOAP API exists for web application use.
  X.509 certificate authenticated.
  Only exposes user & list related queries.
  Primarily used by Web Moira.

Systems Overview Diagram



Learn more

- Email Lists (Moira and Mailman)
- Powerpoint Presentation on Moira
- Web Moira