

# Moira Technical Overview

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Moira serves as MIT's system of record for  
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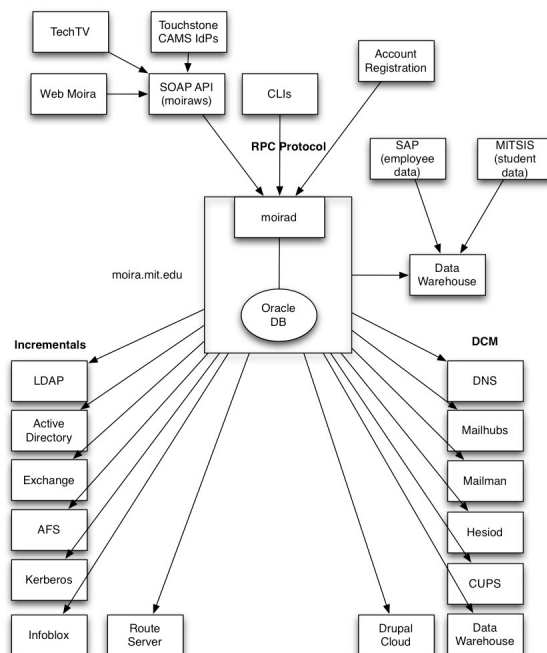
## Moira serves as MIT's system of record for

- 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](#)