

2.7 Directory Services

2.7.1 Name Services

- 1) In typical IP network environments, best exemplified by the Internet, Domain Name Services (DNS) (IAB RFC 1035), provides a distributed hierarchical directory service with global uniqueness. The naming structure is defined by DNS; an example for External Affairs may be RWATT@MSS.EAITC.CA. In a homogeneous IP environment, External Affairs would be required to establish a Domain Name Service with DNS name syntax. However, the electronic messaging service is a major client of a name service. In the event that an X.400 based message service is selected, the requirement may be weighted in favour of the CCITT X.500 directory services.

2.7.2 Address Resolution Services

- 1) An address resolution service is required to provide a mapping between data link layer addresses (i.e.. 8802-3 addresses) and the network layer addresses (i.e.. IP addresses).