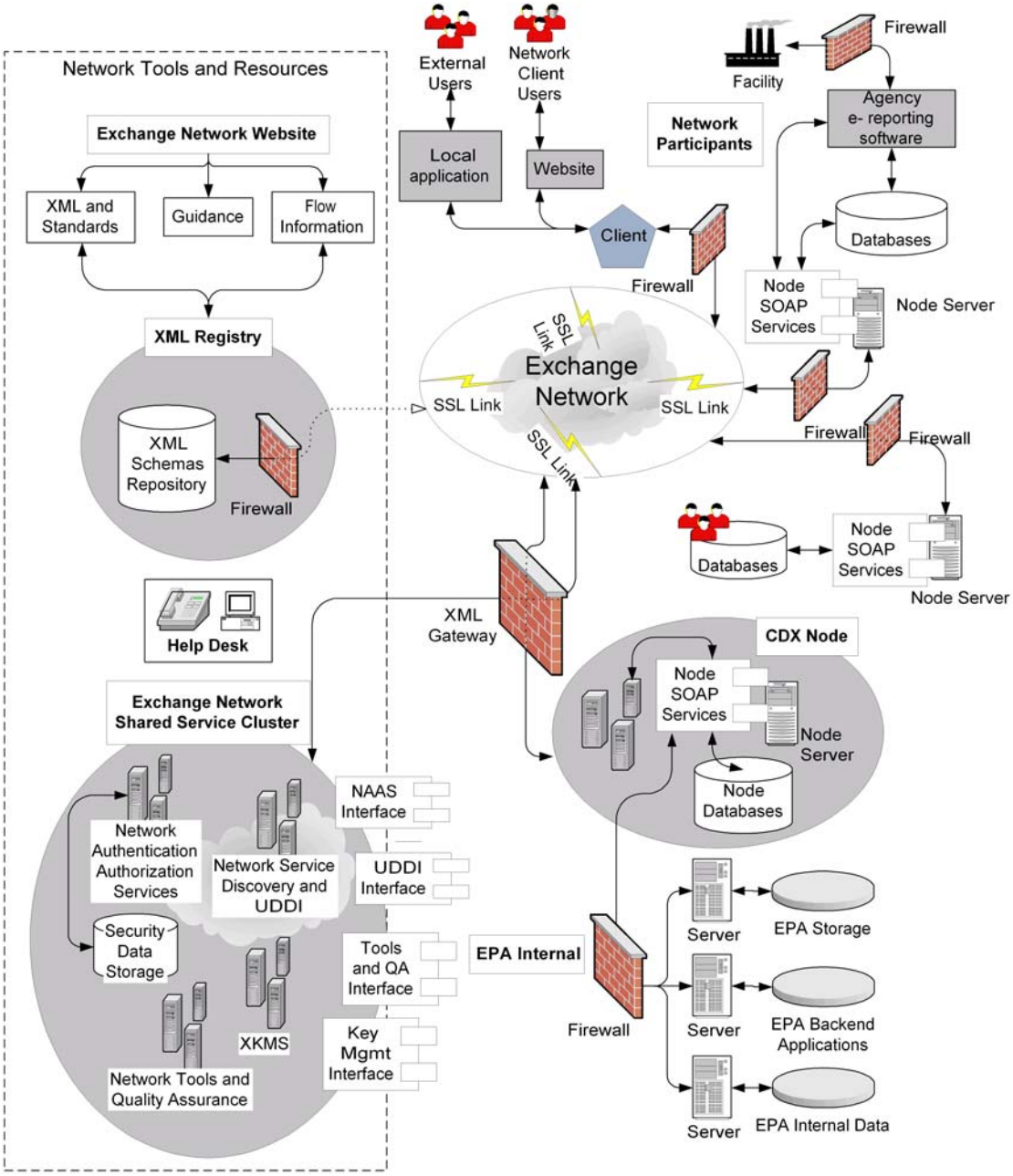
Exchange Network High Level Architecture Diagram



Exchange Network Document Metadata

Title: Exchange Network High Level Architecture diagram

Subject: Diagram describes the Exchange Network architecture, including the paths by which Network participants and entities (including the EPA Central Data Exchange (CDX) node and State nodes) and Network tools and resources access the Network.

Abstract: The diagram is divided into three sections: Network participants, Network Tools and Resources, and the CDX Node, each of which is connected to the Exchange Network. The Network Participants section describes access paths for Clients and Nodes to connect to the Network and for facilities' interface with the Network. The Network Tools and Resources section depicts the Network website, the XML Registry and Network Repository, the Network Help Desk, and the Network Shared Service Cluster. This cluster is comprised of the Network Authentication and Authorization Services (NAAS), the Universal Description, Discovery and Integration (UDDI), the key management interface, and other tools and quality assurance interfaces. The CDX Node section describes how internal EPA databases connect with the CDX Node, pass through the XML Firewall, and connect to the Network.

Table of Contents: Not applicable

Creator: Operations Technology and Security (OTS) team

Contractor: Computer Sciences Corporation and Ross & Associates

Contributors: Members of the OTS, the Technical Resource Group (TRG), and the Network Technology Group (NTG)

Originator: Operations Technology and Security (OTS) team

Version: 1.0

Version history: No version history.

Revision date: December 2005

Commission date: February 2005

Relations: No direct relation to current Network guidance documents.

Review Process: Reviewed in various draft stages by the OTS and TRG. Final draft reviewed by the NTG.

Reviewers: Members of the OTS, TRG, and NTG.

Major Comments: Most of the comments on the diagram referred to how the various entities were grouped and organized. Other reviewers commented on how detailed the diagram should be. In addition, the reviewers decided that the diagram should be accompanied by definitions of the acronyms, entities, and technology shown.

Comment Resolution Process: The diagram was modified according to comments. It will be submitted to the NOB will accompanying definitions.

Follow-up Actions: OTS intended for this diagram to be posted to the Exchange Network website as a resource for the Network community. The diagram should be updated as Network architecture changes.

Pros and Cons: This diagram provides the most up-to-date depiction of Exchange Network architecture. The diagram simplifies many concepts in order to streamline the information presented.

Actions Required: The NTG, on behalf of the former OTS, recommends that the NOB accept this document and provide it to the Network community.