



DEPARTMENT OF ADMINISTRATION

Enterprise Policy

DOIT-02-07-2013

DIVISION OF INFORMATION TECHNOLOGY

DNS Configuration Standard

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1. Purpose

- a. To define an effective, scalable, secure and manageable Domain Name Service (DNS) design and to facilitate one standardized infrastructure for the State's DNS. The Division of Information Technology (DoIT) shall govern the implementation and operation of Domain Name Service (DNS) design on the State's enterprise network.

2. Definitions

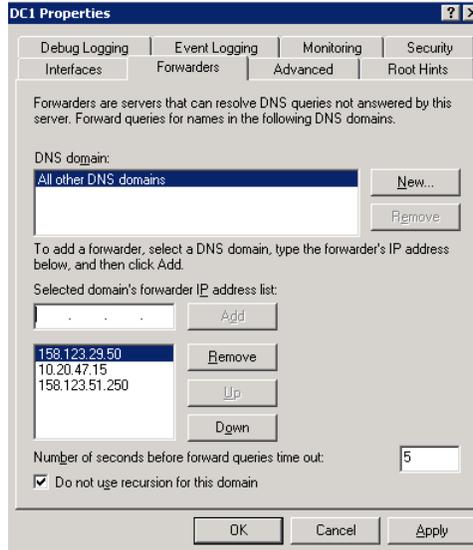
- a. **Physical Location** - A location is a facility used to house computer systems and associated components. It generally includes environmental controls (air conditioning, fire suppression, etc.), backup power supplies, data communications connections and physical security.
- b. **Domain Name Service** - Domain Name Service (DNS) is a hierarchical distributed database used for name/address translation and client server rendezvous. Domain Name Service is the namespace used on the Internet to translate computer and service names into TCP/IP addresses. Active Directory™ uses DNS as its location service which enables clients to find domain controllers using DNS queries.
- c. **DNS Forward** - A forwarder is a Domain Name System (DNS) server on a network used to forward DNS queries for external DNS names to DNS servers outside of that network.
- d. **Zone Delegation** - The transfer of authority for any given sub-zone for self administration of a child's domain name space.
- e. **DNS Replication** - The act of creating multiple copies of a domain name space on multiple servers for redundancy through out the network infrastructure.

3. Scope

- a. This standard applies to any Agency's implementation of Active Directory™. This standard covers implementation of any Active Directory™ Domain Name Service established on the State's enterprise network within a production environment.

4. Standard

- a. Department, agencies, boards and commissions, and other entities participating in the State's Active Directory™ shall comply with all Active Directory™ Domain Name Service prescribed standards, processes, and specifications defined by the Division of Information Technology. DoIT will publish specific procedures and processes that Agencies will follow to implement Active Directory™.



2. The agencies deemed by the Active Directory Group not to have the size, experience, connectivity and resources (like DBR, DEA, etc) to manage and maintain a Local DNS Server Configuration will follow the below configurations.

- Clients/Workstations will only reference the Enterprise DNS Servers (158.123.29.50, 10.200.47.15 and 158.123.51.250).

(iii.) The Enterprise DNS Servers will have the following Configuration.

1. Local Enterprise DNS Forwarders will reference the External DNS Servers (204.139.0.15 and 139.128.4.14).

(iv.) All DNS Services will forward only to the Enterprise DNS Servers and there will be no use of ROOT HINTS. Any exceptions should be approved by the Change Management Process.

5. Exceptions

- a. Requests for variance and exceptions to this standard must be submitted through the DoIT change management process.

6. Signatures

Assistant Director of Planning, Policy & Technology

Date

Director of Operations

Date

Chief Information Officer

Date

Director, Department of Administration

Date

