



# Nebraska Information Technology Commission

## STANDARDS AND GUIDELINES

### DNS Forwarding Standard

Category	<b>Security Architecture</b>
Title	<b>DNS Forwarding Standard</b>
Number	

Applicability	<input checked="" type="checkbox"/> State Government Agencies <input type="checkbox"/> All.....Not Applicable <input checked="" type="checkbox"/> <b>Excluding higher education institutions</b> .....Standard <input type="checkbox"/> State Funded Entities - <b>All entities receiving state funding for matters covered by this document</b> .....Not Applicable <input type="checkbox"/> Other: <b>All Public Entities</b> .....Not Applicable  <b>Definitions:</b> <b>Standard</b> - Adherence is required. Certain exceptions and conditions may appear in this document, all other deviations from the standard require prior approval (see Section 3.2). <b>Guideline</b> - Adherence is voluntary.
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Status	<input type="checkbox"/> <b>Adopted</b> <input type="checkbox"/> <b>Draft</b> <input type="checkbox"/> <b>Other:</b> _____
Dates	<b>Date: Draft February 7, 2007</b> <b>Date Adopted by NITC:</b> <b>Other:</b>

Prepared by: Technical Panel of the Nebraska Information Technology Commission  
 Authority: Neb. Rev. Stat. § 86-516(6)  
<http://www.nitc.state.ne.us/standards/>

## **1.0 Standard**

All outbound (Internet) DNS traffic must be forwarded through the State of Nebraska's internal DNS servers.

## **2.0 Purpose and Objectives**

All outbound (Internet) DNS traffic must be forwarded through the State of Nebraska's internal DNS servers that are managed by the Office of the CIO.

## **3.0 Applicability**

### **3.1 State Government Agencies**

All State agencies, boards, and commissions are required to comply with the standard listed in Section 1.0.

### **3.2 Exemption**

Exemptions may be granted by the NITC Technical Panel upon request by an agency.

#### **3.2.1 Exemption Process**

Any agency may request an exemption from this standard by submitting a "Request for Exemption" to the NITC Technical Panel. Requests should state the reason for the exemption. Reasons for an exemption include, but are not limited to: statutory exclusion, federal government requirement, or financial hardship. Requests may be submitted to the Office of the NITC via e-mail or letter (Office of the NITC, 501 S 14th Street, Lincoln, NE 68509). The NITC Technical Panel will consider the request and grant or deny the exemption. A denial of an exemption by the Technical Panel may be appealed to the NITC.

## **4.0 Responsibility**

### **4.1 NITC**

The NITC shall be responsible for adopting minimum technical standards, guidelines, and architectures upon recommendation by the technical panel. (Neb. Rev. Stat. § 86-516(6))

### **4.2 Office of the CIO**

The Office of the CIO will be responsible for installing, maintaining and managing the External DNS servers for the State of Nebraska. All other DNS inquiries will be dropped at the State's firewall.

### **4.3 State Agencies**

Each state agency will be responsible for ensuring that all outbound (Internet) DNS traffic is routed through the State of Nebraska's internal DNS servers. Agency servers will not be allowed to perform 'Internet' lookup's for an address. This will prevent a user from performing a direct DNS lookup and being returned a 164.119.x.x address instead of the authorized 10.x.x.x address.

## **5.0 Related Documents**

**5.1** NITC Network Security Policy (<http://www.nitc.state.ne.us/standards/index.html>)