



Office of Information Technology Services

State Capitol P.O. Box 2062
Albany, NY 12220-0062
www.its.ny.gov

Office of Information Technology Services Standard	No: ITS-S16-003
ITS Standard: TLS / SSL Certificate Standard	Issued: 09/02/2020
	Issued By: NYS Office of Information Technology Services Standard Owner: Chief Technology Office

1.0 Purpose and Benefits

The purpose of this technical standard is to normalize the deployment of Transport Layer Security (TLS) Certificates used to encrypt and authenticate state applications.

2.0 Authority

Section 1 of Executive Order No. 117 charges the State Chief Information Officer with overseeing and supervising the management and operations of the Office of Information Technology Services (ITS). *Section 102(2) of the State Technology Law* gives the Director of ITS responsibility for the administration of ITS. Details regarding this authority can be found in NYS ITS Policy, [NYS-P08-002 Authority to Establish Enterprise Information Technology \(IT\) Policies, Standards, and Guidelines.](#)

3.0 Scope

This policy document applies to ITS and its employees (including full-time, part-time, and temporary employees), contractors, consultants, volunteers, interns, and ITS supported agencies (“Client Agency”).

4.0 Information Statement

4.1 TLS Certificate Acquisition

All TLS Certificates must be acquired by the designated business unit within ITS.

4.2 TLS Key Management

TLS private keys will be generated in a manner consistent with [NYS-S14-007 Encryption Standard](#). It is recommended that key material be stored in a hardened Hardware Security Module (HSM).

4.3 TLS Session Termination

TLS sessions must be terminated on the application delivery controller at the data center perimeter.

Exceptions will be permitted for any of the following reasons:

- The application is considered an auxiliary perimeter for the data center network.
- A demonstrated technical limitation exists that requires TLS to be terminated at the application.

4.4 URL Naming Standards for Publicly Verifiable DNS Domains

Application URL naming is governed by [NYS-P08-003 Domain Names for State Government Agencies](#). This policy requires that applications use the “ny.gov” domain structure and comply with approved URL naming patterns.

4.5 Compliant TLS Domains

Certificates shall be issued and maintained for the following compliant domain patterns:

- *.ny.gov
- *.svc.ny.gov
- *.agency_identifier.ny.gov

4.6 Legacy Supported TLS Domains

Support will not be provided to:

- *.state.ny.us
- *.gov

To facilitate migration, legacy transitional support may be provided for non-compliant domain patterns through exception granted by the State Chief Information Officer.

4.7 TLS Certificates for Private Namespaces

Applications using private DNS Namespaces (e.g., *.nyenet, *.local) will be supported by the ITS Enterprise Certificate Authority (CA).

5.0 Compliance

This standard shall take effect upon publication. Compliance is required with all enterprise policies and standards. ITS may amend its policies and standards at any time; compliance with amended policies and standards is required.

6.0 Definitions of Key Terms

Except for terms defined in this policy, all terms shall have the meanings found in <http://www.its.ny.gov/glossary>.

7.0 Contact Information

Submit all inquiries and requests for future enhancements to the policy owner at:

Chief Technology Office
Reference: ITS-S16-003
New York State Office of Information Technology Services
Empire State Plaza
P.O. Box 2062 Albany, NY 12220
Telephone: 518-402-7000

Statewide technology policies, standards, and guidelines may be found at the following website: <https://its.ny.gov/policies>

8.0 Revision History

This policy should be reviewed consistent with the requirements set forth in [NYS-P09-003 Process for Establishing Information Technology Policies, Standards, and Guidelines](#)

Date	Description of Change	Reviewer
02/20/2015	Issued internal document	Chief Technology Office
11/30/2018	Updated scope and authority cursory review	Chief Technology Office
09/02/2020	Scheduled review, updated authority and scope	Chief Technology Office

9.0 Related Documents

[NYS-P08-003 Domain Names for State Government Agencies](#)

[NYS-S14-007 Encryption Standard](#)