Application Delivery Controller Standard

Introduction
Application delivery controllers are critical tools in balancing the load of internet traffic. ADCs receive traffic requests from internet users and distribute those requests to an appropriate server relative to the user's geolocation or reject traffic requests that present identifiable security risk. In an effort to streamline network operations and support and to take advantage of available technological interoperability advancements, OMES Information Services utilizes a single ADC platform each for physical network and cloud requirements.

Purpose
This document formalizes the OMES network team’s decision to standardize the application delivery controller platform for physical network and cloud environments.

Standard
The designated original equipment manufacturer for hardware is F5 and the designated platform is BIG-IP.

The designated OEM for virtual cloud environment is AVI and the designated platform is VMware NSX-T.

Primary functions include, but are not limited to the following:
- Full reverse proxy.
- Traffic load balancer.
- Global DNS and server load balancing.
- Web application firewall.
- SSL-offloading.
- Centralized certificate endpoint.
- Identity and access management.
- Policy enforcement.

Platforms and models are individually selected based upon their availability and the identified requirements of the enterprise-wide environment, associated projects or specific agencies. No device platforms or models by the OEM are exclusively reserved for use only within a specific environment.

Compliance
This standard shall take effect upon publication and is made pursuant to Title 62 O.S. §§ 34.11.1 and 34.12 and Title 62 O.S. § 35.8. OMES IS may amend and publish the amended standards policies and standards at any time. Compliance is expected with all published policies and standards, and any published amendments thereof. Employees found in violation of this standard may be subject to disciplinary action, up to and including termination.

Rationale
To coordinate and require central approval of state agency information technology purchases and projects to enable the chief information officer to assess the needs and capabilities of state agencies as well as streamline and consolidate systems to ensure that the state delivers essential public services to its citizens in the most efficient manner at the lowest possible cost to taxpayers.

Revision history
This standard is subject to periodic review to ensure relevancy.
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