

## **Application Delivery Controller Standard**

#### Introduction

Application delivery controllers are critical tools in proxying and load balancing Internet-based traffic. ADCs receive traffic requests from the Internet 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 specific ADC platforms depending on physical network and cloud requirements.

## **Purpose**

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

#### Standard

The designated original equipment manufacturer for on-premise deployments is F5 and the designated platform is BIG-IP.

The designated OEM for private and hybrid virtual cloud environments is VMWare, and the designated platform is VMware AVI.

The designated ADC for Microsoft Azure is Azure Front Door or Azure Application Gateway.

The designated ADC for Google Cloud Platform is currently pending under review by OMES architecture and engineering.

The designated ADC for Amazon Web Services is currently pending under review by OMES architecture and engineering.

Primary functions include, but are not limited to the following:

- Full reverse proxy.
- Traffic load balancing.
- Global DNS.
- Web application firewall.
- SSL offloading.
- Centralized certificate endpoint and management.
- Identity and access management.
- Web 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.

Effective date: 04/12/2022	Review cycle: Annual
Last revised: 08/08/2023	Last reviewed: 08/11/2023
Approved by: Joe McIntosh, Chief Information Officer	