State Data Platform – Data Storage Standard

**Introduction**
In order to ensure quality service and appropriate governance, the state data platform provides a narrow set of options for storing data. Each solution has been selected to meet the needs of a particular data use-case.

**Purpose**
The purpose of this standard is to provide guidance to data owners on the state data platform on what services can be used to store and access data.

**Definitions**
GCP – Google Cloud Platform.

GCP BigQuery – a cloud data warehouse solution provided by Google.

GCP Cloud Storage – an object storage solution provided by Google.

GCP CloudSQL – a relational database solution provided by Google.

DASH – the state data sharing application.

SDP – state data platform.

**Standard**
All data stored on the SDP is stored on one of the following GCP solutions based on its characteristics:

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<tr>
<th>Data Characteristics</th>
<th>Data Storage Solution</th>
<th>Rationale/Details</th>
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| • Unstructured or archived Data  
• Low rate of access | Refer to the Data Archiving Standard. | |
| • Application or otherwise transactional data | GCP CloudSQL | • Allows for different database backend options (SqlServer, Oracle, etc.)  
• Provides built in connection to the data warehouse behind DASH |
| • Documents | n/a | • Out of scope of the SDP standard  
• See the OMES standard for document storage |
| • Default (none of the above) | GCP BigQuery | • Leverages DASH to automatically integrate with other state data |
References

- Data Archiving Standard.

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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<tr>
<th>Effective date: MM/DD/YYYY</th>
<th>Review cycle: Quarterly</th>
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<tr>
<td>Last revised: 05/09/2022</td>
<td>Last reviewed: 05/09/2022</td>
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Approved by: Jerry Moore, Chief Information Officer