

MS SQL 2017 Standard Offering

**Service Offering: MS SQL 2017**  **Review Date:**

**Prepared by: PHSA TS Database Services**

**Existing Service Name: MS SQL 2016, MS SQL 2014 and MS SQL 2012**  **Service Manager: Paul Hundal**

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The MS SQL 2017 standard service offering definition is intended to update the current PHSA TS SQL offerings to be MS SQL 2017 (preferred) and MS SQL 2016 (backward compatibility). This service offering update will retain the current principle of SQL two version standard support and therefore moving forward SQL 2014 and below will now be considered legacy versions. Legacy versions can be provided as a custom solution on as required basis for specific application requirements. The overall methodology and approach on providing this service will remain unchanged from the current offering.

# MS SQL 2017 Service Offering Description

## Service Delivery Vision

Provide world-class province-wide shared MS SQL Database Services to our customers by driving continual improvement and agility in context of overall PHSA TS services.

## Mission Criticality

That Databases are always available when and where it is required at an appropriate cost in order to enable our customers to deliver timely and efficient patient care. Our service focuses on:

* Ensuring Databases integrity
* Ensuring Databases is highly available and secure
* Delivering Databases in a cost-effective manner
* Delivering consultation to address real and current business needs to help improve outcomes in Healthcare.
* Embracing innovation to improve our service with emerging technologies

## Technology Description

Microsoft SQL Server is a comprehensive and integrated database management and analysis software application that enables quick, efficient, and reliable way to manage and store information. SQL Server enables customers to improve performance, increase operational efficiencies and save both time and money.

## Services Description

PHSA TS Database Services provides support and professional services for SQL Server includes

* Licensing
* Installation
* Troubleshooting assistance
* Standard maintenance plan
  + Database backup
  + Integrity check
  + Basic Index maintenance

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## Supported version and Features

**Version:** Microsoft SQL Server 2017

**Editions:** Standard and Enterprise versions **Core Features:**

1. **Microsoft SQL Server Integration Services (SSIS):** Platform for data integration and workflow applications. Features a fast and flexible database warehousing tool used for database extraction, transformation, and loading (ETL)
2. **Microsoft SQL Server Reporting Services (SSRS):** A ready-to use tools and services to help create, deploy, and manage reports
3. **Microsoft SQL Server Analysis Services (SSAS):** Technology for Online Analytical Processing (OLAP) solutions development
4. **Machine Learning in SQL Server 2017:** SQL Server R Services has been renamed SQL Server Machine Learning Services, to reflect support for Python in addition to the R language.
5. **SQL Server 2017 Master Data Services (MDS):** Experience and performance are improved when upgrading from SQL Server 2012, SQL Server 2014, and SQL Server 2016 to SQL Server 2017 Master Data Services.

**High-Availability Features:**

1. **Microsoft SQL Server AlwaysOn Availability Groups**
   * **Two-node cluster with automatic failover in one data center**
   * **Four-node cluster with automatic failover in two data centers**
     + A database level high-availability solution
     + Additional cost required for increased resource requirements
2. **Microsoft SQL Server AlwaysOn Failover Cluster Instances** 
   * An instance level high-availability solution
   * Additional cost required for increased resource requirements
   * Require shared storage

**Other Features:**

Additional features are available as a custom implementation. Please contact Database Services team for details.