



## Enterprise and Standard Feature Compare

### SQL Server 2008 Enterprise

SQL Server 2008 Enterprise is a comprehensive data platform for running **mission critical** online transaction processing (OLTP), data warehousing (DW) and business intelligence (BI) applications. SQL Server 2008 Enterprise provides enterprise class **scalability, high availability and security** to meet the high demands of these applications.

#### Enterprise is ideally suited for the following usage scenarios:

- Mission critical deployments requiring high availability and uptime
- Existing large scale OLTP deployments
- OLTP deployments that expect to grow rapidly in the future
- Large scale reporting and analysis deployments
- Data Warehousing
- Server Consolidation

### SQL Server 2008 Standard

SQL Server 2008 Standard is a full featured data platform for running **departmental** online transaction processing (OLTP) and business intelligence (BI) applications. SQL Server 2008 Standard provides best-in-class **ease of use and manageability** for running departmental applications.

#### Standard is ideally suited for the following usage scenarios:




























- Departmental deployments
- Small to medium scale OLTP deployments
- OLTP deployments that are not expected to rapidly grow in the future
- Reporting and analysis deployments




























The table below provides a high level comparison of the key capabilities between SQL Server 2008 Enterprise and Standard:































High-Level Feature Comparison	SQL Server 2008 Enterprise	SQL Server 2008 Standard
Number of CPUs	OS Maximum	4
Scalability & Performance	✓	●
High Availability (Always On)	✓	●
Security	✓	●
Data Warehousing	✓	
Business Intelligence	✓	●
Enterprise Manageability	✓	●
Programmability	✓	✓




























KEY: Full =  Partial/Limited = 

The table below provides a more detailed comparison of the key capabilities between SQL Server 2008 Enterprise and Standard:

Detailed Feature Comparison	SQL Server 2008 Enterprise	SQL Server 2008 Standard
<b>Number of CPUs</b>	<b>OS Maximum</b>	<b>4</b>
<b>Scalability &amp; Performance</b>		
x32 hardware support		
x64 hardware support		
I64 hardware support		
Multi-instance support	50 instances	16 instances
Hypervisor support		
Dynamic address windows extensions memory management		
Table and index partitioning		
Parallel index operations		
Parallel consistency checks (DBCC)		
Database snapshots		
Scalable shared databases		
Indexed views		
Enhanced read-ahead and scan		
<b>High Availability (Always On)</b>		
Log Stream Compression		
Clustering	16-node failover clustering	2-node failover clustering
Database mirroring	Full	Single-thread
Online operations		
Resource governor		
Backup compression		
Hot-add memory and CPU support		
Database snapshots		
Fast recovery		
Online page and file restore		
Parallel index operations		
Updated distributed partitioned views		
Table and index partitioning		

<b>Enterprise Security</b>		
Data encryption	Transparent Data Encryption	Limited
Data encryption	Advanced third-party key management	Limited
Auditing	Security auditing	C2 compliant tracing
<b>Data Warehousing</b>		
Partitioned table parallelism		
Data compression		
Star join query optimizations		
Change data capture (CDC)		
<b>Business Intelligence</b>		
Analysis Services		
Analysis Services backup		
Dimension, Attribute Relationship, Aggregate & Cube Design		
Personalization extensions		
Analysis Services scalable shared databases		
Account intelligence		
Linked measures and dimensions		
Perspectives		
Semi-additive measures		
Writeback dimensions		
Proactive caching		
Auto parallel partition processing		
Partitioned cubes and distributed partitioned cubes		
Data Mining		
Comprehensive set of DM algorithms		
Integrated Data Mining Tools (Wizards, Editors, Model Viewers, Query Builder)		
Excel 2007 and Visio 2007 Add-in Support		
Parallel model processing		
Support for Plug-in Algorithms		

Advanced configuration and tuning options for Data Mining algorithms		
Support for Pipeline Data Mining and Text Mining with Integration Services		
<b>Integration Services</b>		
SQL Server import and export wizard		
SSIS run-time		
Basic data profiling tools		
SSIS Package Designer & Service		
Data Mining query transformation		
Data Mining model training destination adapter		
Fuzzy grouping transformation		
Fuzzy lookup transformation		
Term extraction transformation		
Term lookup transformation		
Dimension processing destination adapter		
Partition processing destination adapter		
<b>Reporting Services</b>		
Microsoft Office integration		
Built-in forms authentication		
Report server application embedding		
Ad-hoc reporting (Report Builder)		
Scale-out operational report configuration		
Data-driven report subscriptions		
Report scale-out deployment		
Infinite click-through in ad-hoc reports		

<b>Enterprise Manageability</b>		
Policy-Based Management		
Plan Freezing		
Streamlined Installation		
Performance Data Collection		
Standard Performance Reports		
SQL Server Management Studio Tools		
Auto server group management		
Mirrored backup media		
Multi-server administration		
VIA protocol support		
Unlimited virtualization		
<b>Programmability</b>		
Common Language Runtime (CLR) Integration		
Native XML Support		
XML Indexing		
Spatial Support		
Filestream Support		

### **Additional Information**

For more information about Microsoft SQL Server 2008, visit <http://www.microsoft.com/sqlserver>

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