


SQL Server 2008 Compare Edition Features

This page provides a comparison of key capabilities between SQL Server 2008 Enterprise, Standard, Workgroup, Web and Express editions.






Scalability & Performance

Key:  = Full  = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Scalability & Performance					
Number of CPUs	8 CPU	4 CPU	2 CPU	4 CPU (Web Workloads Only)	1 CPU
Memory Utilization	2 TB Ram	64 GB Ram	4 GB Ram	OS Maximum	1 GB Ram
Database Size	524PB	524PB	524PB	524PB	10GB
x32 Hardware Support					
x64 Hardware Support					
Data Compression					
Resource Governor					
IA64 hardware support					
Table and Index Partitioning					
Parallel Index Operations					
Parallel Consistency Checks (DBCC)					
Scalable Shared Databases					
Indexed views					
Enhanced Read-ahead and Scan					

High Availability (Always On)

Key:  = Full  = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
High Availability (Always On)					
Database Mirroring	Yes (full)	Yes (Single)	Witness only	Witness	Witness

		Threaded, Safety Full Only)		only	only
Online System Changes	✓	✓	✓	✓	✓
Log Shipping	✓	✓	✓	✓	
Clustering	16-node failover clustering	2-node failover clustering			
Automatic Corruption Recovery from Mirror	✓	✓			
Log Stream Compression	✓	✓			
Online Indexing	✓				
Mirrored Backups	✓				
Resource Governor	✓				
Backup Compression	✓				
Hot-add Memory and CPU Support	✓				
Database Snapshots	✓				
Fast Recovery	✓				
Online Page and File Restore	✓				












Replication

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Replication	✓	●	●	●	●
SQL Server Change Tracking	✓	✓	✓	✓	✓
Merge Replication	✓	✓	Subscriber only **	Subscriber only	Subscriber only
Transactional Replication	✓	✓	Subscriber only **	Subscriber only	Subscriber only
Snapshot Replication	✓	✓	Subscriber only **	Subscriber only	Subscriber only
Heterogeneous Subscribers	✓	✓			
Oracle Publishing	✓				





















































Enterprise Security

Key:  = Full  = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Enterprise Security					
C2 Complaint Tracing					
SQL Audit					
Transparent Database Encryption					
Extensible Key Management					

Enterprise Manageability

Key:  = Full  = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Enterprise Manageability					
Hypervisor Support					
Database Migration Tools					
Policy-Based Management					
SQL Server Management Studio Tools					 *
Database Mail					
Performance Data Collection					
SQL Server Agent					
Database Tuning Advisor					
Plan Guides					
SQL Profiler					
Standard Performance Reports					
Distributed Partition Views					
Parallel Index Operations					
Automatic Query-to-index-View Matching					
Unlimited Virtualization					

Data Warehousing

Key:  = Full  = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express



Data Warehousing	✓	●			
Create Cubes Without a Database	✓	✓			
Auto-generate Staging and Datawarehouse Schema	✓	✓			
Attribute Relationship Designer	✓	✓			
Efficient Aggregation Designers	✓	✓			
Scalable read-only AS	✓				
Partitioned Cubes	✓				
Distributed Partitioned Cubes	✓				
Data Compression	✓				
Star Join Query Optimizations	✓				
Change Data Capture (CDC)	✓				

Integration Services

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Integration Services	✓	●	●	●	●
SQL Server Import and Export Wizard	✓	✓	●	●	●
Log Providers and Logging	✓	✓			
XML Source	✓	✓			
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	✓				
Dimension Processing Destination Adapter	✓				
Partition Processing Destination Adapter	✓				

Reporting Services

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions	Specialized Editions
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	Enterprise	Standard	Workgroup	Web	Express
Reporting Services	✓	●	●	●	●
Reporting Services Memory Limits	OS Max	OS Max	4GB	4GB	4GB
Report Designer	✓	✓	✓	✓	✓*
Report Manager	✓	✓	✓	✓ (report manager)	✓* (report manager)
Role-based Security	✓	✓	✓ (fixed roles)	✓ (fixed roles)	✓* (fixed roles)
Basic Data Profiling Tools	✓	✓	✓	✓	✓
Export to Excel, Word, PDF and Images	✓	✓	✓	✓	✓*
Report Server Application Embedding	✓	✓	✓	✓	✓*
Enhanced Gauges and Charting	✓	✓	✓	✓	
Custom Authentication	✓	✓	✓	✓	
Ad-hoc Reporting (Report Builder)	✓	✓	✓		
SharePoint Integration	✓	✓			
Email and File Share Delivery	✓	✓			
Report History, Scheduling, Subscriptions and Caching	✓	✓			
Data Source, Delivery and Rendering Extensibility	✓	✓			
Scale-out Operational Report Configuration	✓				
Data-driven Report Subscriptions	✓				
Report Scale-out Deployment	✓				
Infinite Click-through in Ad-hoc Reports	✓				

Analysis Services

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
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	✓				
Partitioned Cubes and Distributed Partitioned Cubes	✓				
Custom Rollups	✓				

Data Mining

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Data Mining	✓	●			
Excel 2007 and Visio 2007 Add-in Support	✓	✓			
Comprehensive Set of DM Algorithms	✓	✓			
Integrated Data Mining Tools (Wizards, Editors, Model Viewers, Query Builder)	✓	✓			
Parallel Model Processing	✓				
Cross Validation	✓				
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	✓				
Sequence Prediction	✓				

Programmability

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Programmability	✓	✓	✓	✓	✓
MERGE and Upsert Capabilities	✓	✓	✓	✓	✓
New Date and Time Data Types	✓	✓	✓	✓	✓
Internationalization Support	✓	✓	✓	✓	✓

Full Text Search	✓	✓	✓	✓	✓*
Common Language Runtime (CLR) Integration	✓	✓	✓	✓	✓
Native XML Support	✓	✓	✓	✓	✓
XML Indexing	✓	✓	✓	✓	✓
FILESTREAM Support	✓	✓	✓	✓	✓
Entity Framework Support	✓	✓	✓	✓	✓
Spatial Support	✓	✓	✓	✓	✓

Development Tools

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Development Tools	✓	✓	●	●	●
Microsoft Visual Studio Integration	✓	✓	✓	✓	✓
Intellisense (Transact-SQL-and MDX)	✓	✓	✓	✓	✓
MDX Edit, Debug and Design Tools	✓	✓			

Spatial and Location Services

Key: ✓ = Full ● = Partial/Limited

Detailed Feature Comparison	Core Editions		Specialized Editions		
	Enterprise	Standard	Workgroup	Web	Express
Spatial and Location Services	✓	✓	✓	✓	✓
Spatial Indexes	✓	✓	✓	✓	✓
Geodetic Data Type	✓	✓	✓	✓	✓
Advanced Spatial Libraries	✓	✓	✓	✓	✓
Standards-based Spatial Support	✓	✓	✓	✓	✓

* Available in SQL Server 2008 Express with Advanced Services Download vs. SQL Server 2008 Express Download.

** If an instance of Workgroup is used as a Publisher, it supports a maximum of 25 publications to all merge subscriptions. It supports an unlimited number of subscriptions to snapshot publications.