



Swiss IT Pro User Group

Upgrade & Migration Exchange Server & SQL Server

Agenda:

- Certification
- Exchange Server 2007 Upgrade 101
- SQL Server 2005 - Upgrade Specifics

03 April 2007

17:45 - 20:00

SQL Server 2005 Upgrade Specifics

03 April 2007

www.SwissITPro.ch

Charley Hanania

B.Sc (Computing Science), MCP, MCDBA, MCITP, MCTS, MCT

UBS Investment Bank

Charley.Hanania@gmail.com

General Overview

- Why Upgrade to SQL Server 2005
- End of Life Dates
- Upgrade Paths
- Compatibility Modes
- Questions

What we won't cover

- General SQL Server 2005 Functionality
 - In-depth SQL Analysis Services Upgrade
 - In-depth SQL Reporting Services Upgrade
 - In-depth SQL Notification Services Upgrade
 - Drilldown into itemised deprecations
-
- Show interest, and we can present on these in the future
(*feedback forms*)

SQL Server History

1st Generation

SQL Server
6.0/6.5

- Differentiation from Sybase SQL Server
- Windows integration
- First to include Replication

2nd Generation

SQL Server
7.0

- Re-architecture of relational server
- Extensive auto resource management
- First to include OLAP & ETL

SQL Server
2000

- Performance, scalability focus
- XML support
- First to include Notification
- First to include Data Mining & Reporting

3rd Generation

SQL Server
2005

- High availability
- Security
- Developer productivity
- Native XML
- First to include Enterprise ETL & Deep Data Mining

Cross-release objectives

• **Reliability & Security**
• **Integrated Business Intelligence**

• **Lowest TCO**
• **Integrated Business Suite**

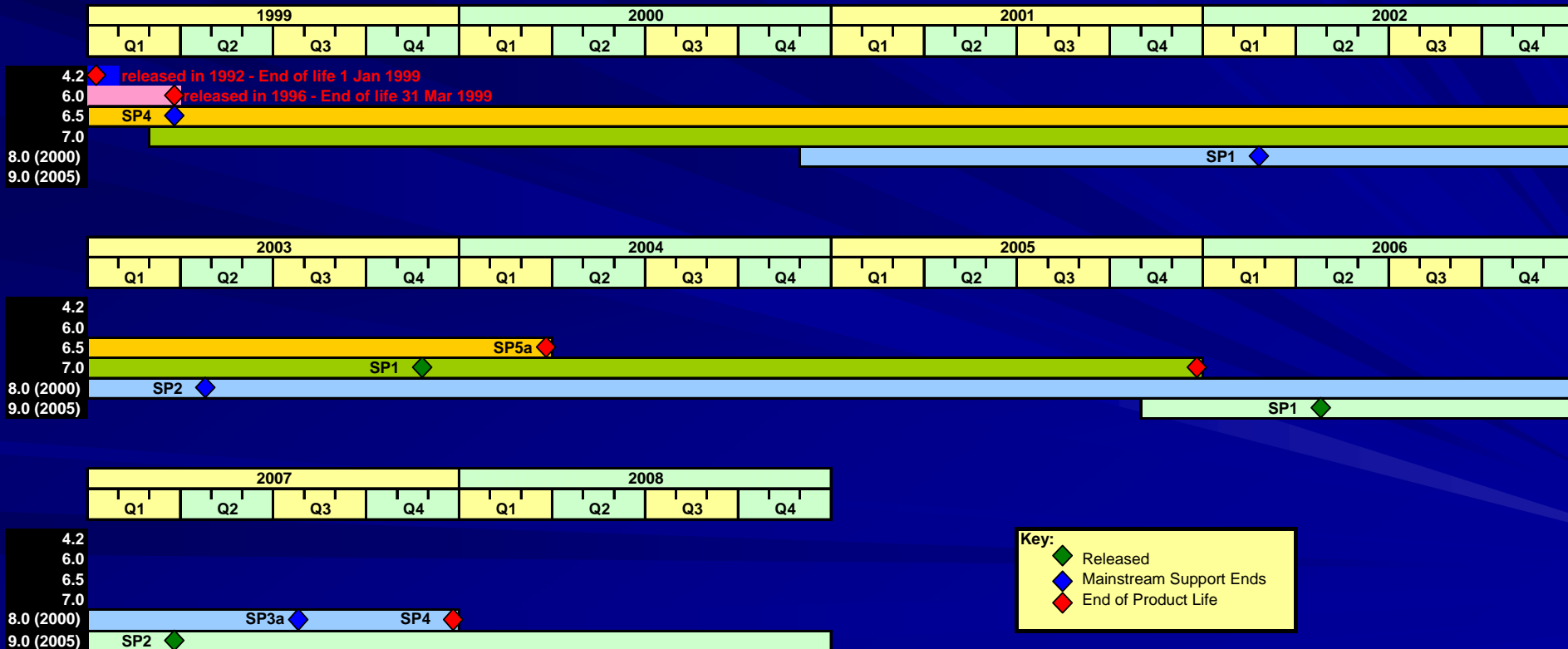


Why Upgrade?

- Improved performance out of the box
- Feature set expanded and improved
 - Service Broker
 - SSIS
 - Encryption
 - XML etc
- Improved High Availability functionality
(“Always On Technologies”)
- SQL Server Product Life Cycle

End of Life

	General Availability Date	Mainstream Support Retired
SQL Server 4.2 for OS/2	1992	January 7, 1999
SQL Server 6.0 Standard Edition	1995	March 31, 1999
SQL Server 6.5 Standard Edition	June 30, 1996	January 1, 2002
SQL Server 7.0 Standard Edition	January 3, 1999	December 31, 2005
SQL Server 2000 Standard Edition	November 30, 2000	August 4, 2008
SQL Server 2005 Standard Edition	January 14, 2006	December 4, 2011



Upgrade Paths

- In place
 - Using setup
- Side by Side
 - Backup/Restore
 - Copy Database Wizard
 - Detach/Attach etc...

Beforehand...

- Revisit MSDN / Books Online
 - Feature deprecations
 - Feature changes
 - Breaking changes
- Run the Upgrade Advisor in Dev/UAT
 - Itemises issues
 - Gives advice on what to change
 - Also takes trace files and scripts as input!
- Fix your issues, test and rerun

DEMO

During

- Prepare yourself for rollback
- Change options on databases
 - Auto growth on
 - Auto_update_statistics on
 - Databases and filegroups should be read/write
- Disable all startup stored procedures
- Stop Replication (make sure that the replication log is empty)

After / Manual Steps

- Database:
 - Update statistics
 - run DBCC UPDATEUSAGE
 - Change Compatibility mode if ready
- Instance level objects:
 - Linked Servers
 - Logins (eg relink)
 - Maintenance plans
- Log shipping & Replication
- Run Surface Area Configuration
- Scheduled Jobs, Alerts etc...

Compatibility Modes

- When upgraded, database retains its existing compatibility level.
- Allows database behaviours to be compatible with the specified version of SQL Server.
- Determines the keywords that are reserved by the Database Engine.
- Affects the behaviour only in the specified database and not the whole server.

SQL 2005 Upgrade Resources

- [Microsoft SQL Server Home Page](#)
- [Microsoft Support Lifecycle Page](#)
- [SQL Server 2005 Upgrade Virtual Labs](#)
- [Preparing for a Smooth Upgrade](#)

SQL 2005 Upgrade Resources

- MSDN / SQL Server Books Online
 - Upgrading to SQL Server 2005
 - Breaking Changes to Database Engine Features in SQL Server 2005
 - Behavior Changes to Database Engine Features in SQL Server 2005
 - Deprecated Database Engine Features in SQL Server 2005
 - Discontinued Database Engine Functionality in SQL Server 2005

Recap

- Why Upgrade to SQL Server 2005
- End of Life Dates
- Upgrade Paths
- Compatibility Modes
- ...
- Questions

Thank you