



Professional Association for SQL Server

PASS Community News

May 2010



About PASS

The PASS community encompasses everyone who uses the Microsoft SQL Server or Business Intelligence Platforms. This includes database administrators, application developers, Business Intelligence professionals, information technology professionals, executives, consultants, educators, instructors, and students.

The Professional Association for SQL Server (PASS) is the only independent, user-run, not-for-profit association dedicated to the SQL Server community helping its members **Connect, Share, and Learn** by:

- Facilitating member networking and exchange of information through our websites, Chapters, annual Summits, regional and local events, and virtual communities
- Working with Microsoft to influence the evolution of SQL Server products and services
- Delivering high quality, up-to-date, technical content, presentations, and other educational material for professional development



PASS Latest News

Microsoft Kicking Off SQL Server 2008 R2 Launch Tour

- Starting with the European Conference, PASS is partnering with Microsoft to bring 50 regional SQL Server 2008 R2-focused events world wide. More information on our R2 launch page

PASS Summit 2010 Online?

- Would you be interested in attending a live online track at PASS Summit if you couldn't attend in person? Learn more and post your comments on the [PASS blog](#).

24 Hours of PASS

- 24 Hours of PASS is bringing an [exceptional lineup of SQL Server and BI experts](#) from around the world to your computer in 24 back-to-back webcasts starting at 12:00 GMT (UTC) on May 19.



24 Hours of PASS 2010 - May 19th

The 24 Hours of PASS site has gone Live!!! Check it out at <http://www.sqlpass.org/24hours/2010/>

- Virtual Sessions for 24 straight hours. Speakers include Donald Farmer, Greg Low, Adam Machanic, Louis Davidson and more!
- 4 tracks – App Dev, BI, DBA, and Professional Development
- Focus on SQL Server 2008 R2 highlights and new features



Featured Top 10 list

- **Top 10 Links About Security:** [K. Brian Kelley](#)
- [SQL Server 2005 Security Best Practices: Operational and Administrative Tasks](#)
- [Security Overview for Administrators](#)
- [Center for Internet Security benchmark for SQL Server 2000 and 2005](#)
- [Common SQL Server Security Issues and Solutions](#)
- [SQL Injection Attacks by Example](#)
- [Server level permissions for SQL Server 2005 and 2008](#)
- [Database level permissions for SQL Server 2005 and 2008](#)
- [SQL Server Database Forensics presentation](#)
- [SQL Security website by Chip Andrews](#)
- [SQL Server Security blog](#)



Free Virtual Learning for May 2010

[You Got XML In My Database? What's Up With That?](#)

App Dev Virtual Chapter May 11, 12-1pm ET

[Indexing Guidelines](#)

DBA Virtual Chapter, May 12, 3:00pm ET

[12 Key Development Areas](#)

Professional Development Virtual Chapter, May 13, 1:00pm ET

[Extract, Transform & Load Your Data Warehouse](#)

BI Virtual Chapter, May 14, 12:00pm ET

[Introduction to SQL Server Profiler](#)

App Dev Virtual Chapter May 25, 8-9am ET



Upcoming SQL Saturday Events

- [#36 - Wheeling 2010](#) May 1, 2010
- [#38 - Jacksonville 2010](#) May 8, 2010
- [#27 - Portland 2010](#) May 22, 2010
- [#35 - Dallas 2010](#) May 22, 2010
- [#22 - Pensacola 2010](#) June 5, 2010
- [#43 - Redmond 2010](#) June 12, 2010
- [#42 - Columbus 2010](#) June 26, 2010





2009
PASS SUMMIT
UNITE

November 8 - 11 | Seattle WA

The Premier Conference for SQL Server Professionals

www.sqlpass.org/na2010

Top Reasons to Attend PASS Summit

November 8 – 11, Seattle WA

- **Best networking:** Over 2,500 SQL Server/BI pro's and hundreds of Microsoft SQL Server and BI employees
- **Best learning:** 168 technical sessions plus hands-on labs, pre- and post-conference seminars
- **Best advice:** Face-to-face, immediate help at the “Ask the Experts” Lounge and MS CSS First Aid Station
- **Best value:** Attendees say the cost of attending is more than paid for by the new skills they can put to use right away
- **Learn more:** <http://www.sqlpass.org/summit/na2010/>



PASS Membership

Are you a PASS Member?

PASS has more than 50,000 members. Benefits are:

- It's **FREE**
- You'll receive the bi-weekly newsletter called **PASS Connector**. The newsletter includes various features such as:
 - Latest news from Microsoft
 - Technical articles
 - Top 10 lists
 - PASS Summit updates
 - Contests, and more!
- Access to articles on the PASS website.

Register at www.sqlpass.org



PASS Headquarters

Who to contact for information on:

Speakers at PASS Summit 2010:

Elena.Sebastiano@sqlpass.org

Community

Blythe.Morrow@sqlpass.org

Sponsorships & Advertising

Sanjeet.Gandham@sqlpass.org

Tel: 1.604.899.6009

Fax: 1.604.899.1269



SQL Server Transparent Data Encryption

- Ben Miller
- ben@benmiller.net
- Been in IT for over 20 years
- Spent 7 Years at Microsoft as SQL Support and MVP Lead
- Been using SQL Server since v 4.2



Agenda

- What is TDE?
- How does it work?
- Requirements
- Show me the money!
- Summary



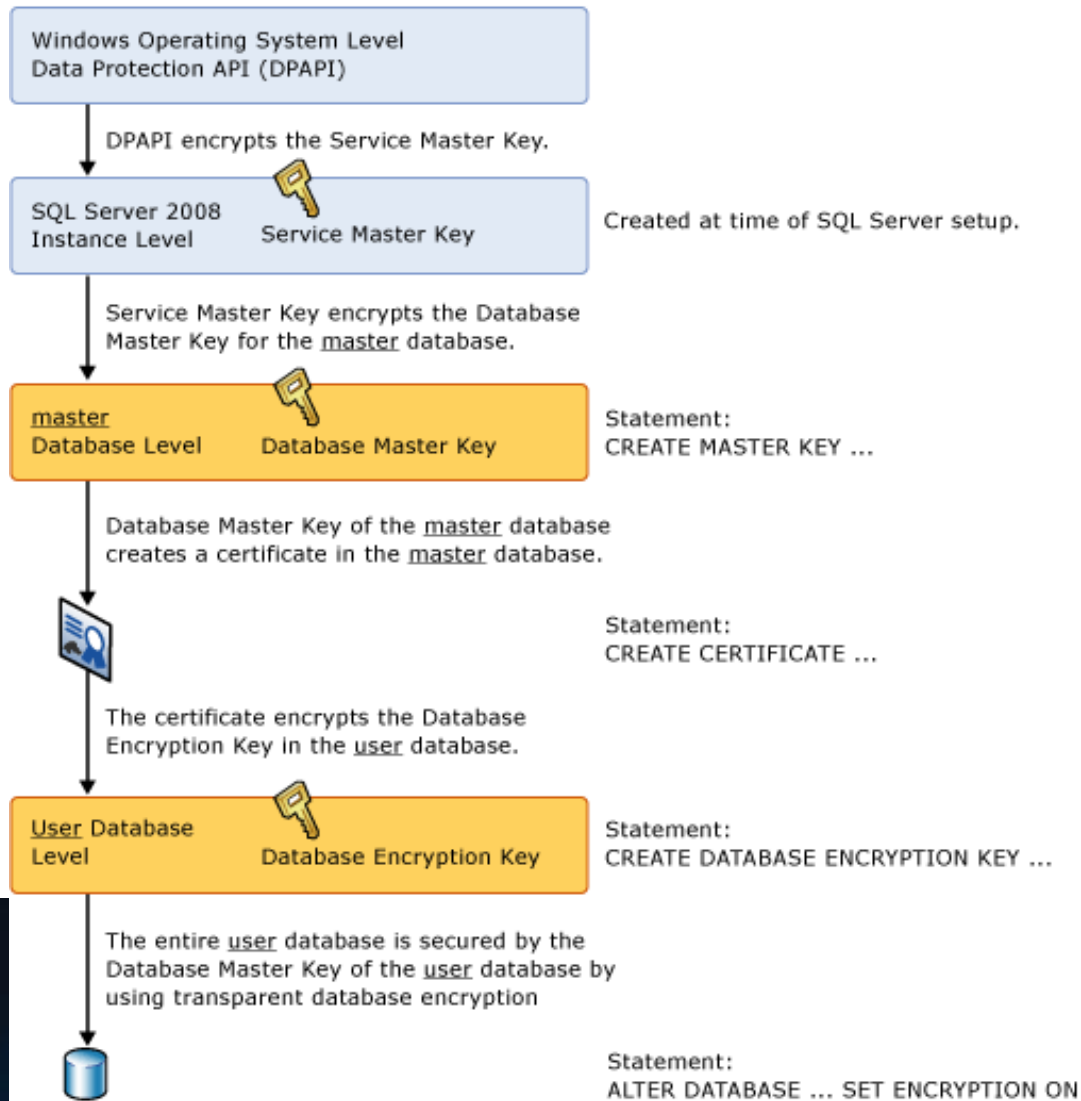
What is TDE?

- TDE is Transparent Data Encryption
- Encrypted Database “At Rest”
- Encryption with AES or 3DES algorithms
- Encryption is performed at the Page Level
- When one database is encrypted, TempDB is encrypted by default.
- FILESTREAM data is not encrypted when TDE is enabled



How does it work?

Transparent Database Encryption Architecture



Requirements

- SQL Server Enterprise Edition 2008 and greater
- Database Master Key
- Certificate
- Database Encryption Key
 - Stored in the Boot record of the database for recovery
- Alter Database to set Encryption On



Demo



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Summary

- TDE is enabled via Keys and Certificates
- Data is encrypted “At Rest”
- Backups of that database are already encrypted
- Must have Enterprise Edition to make it work





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Thank You from PASS

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