

Software Procedure

SWP-0049 Registering XP_MD5.dll on a SQL Back End Server

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Purpose

The purpose of this document is to provide detailed steps for installing and registering xp_md5.dll onto a SQL Back End Server.

Audience

This document applies to persons who work in the Information Technology department within an organization and have a basic working knowledge of SQL Server and Windows Server 2003.

Scope

Xp_md5.dll is used for encryption of data. It houses the necessary functions for SQL to use for hash algorithms. During the installation of tConsult Server software, xp_md5.dll is installed into the MSSQL\Bin folder if SQL Server is installed. In the case of using a SQL Back End Server, this process must be done manually.

Additional Resources

SWP-0048 Installing tConsult Server Software Using SQL Back End Servers

Copying xp_md5.dll

When tConsult Server software is installed onto a Front End (non SQL) server and an organization is created, a folder is created within C:\Program Files\AFHCAN\tConsult\, named MD5. Into it is placed the xp_md5.dll. This file must be copied to the SQL Back End Server hosting the database of the organization just created.

1. From the Front End tConsult Server, use Windows Explorer and copy C:\Program Files\AFHCAN\tConsult\MD5\xp_md5.dll to a thumb drive.
2. From the thumb drive, copy the xp_md5.dll file to C:\Program Files\Microsoft SQL Server\MSSQL\Binn folder (SQL 2000), C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn (SQL 2005)

Install xp_md5 using the SQL Script

Appendix A is the contents of a SQL Script that when run against the Master database on a SQL Back End server will register the xp_md5.dll.

1. Copy the contents of Appendix A into Notepad. Save the file to the root of the C:\, naming it Install_MD5.sql
2. Open Enterprise Manager (SQL 2000), SQL Server Management Studio (SQL 2005)

3. With the Master database highlighted, click on Query Analyzer (SQL 2000), or right click and select New Query (SQL 2005). Open the Install_MD5.sql script and select Run.
4. At the Command completed successfully prompt, exit the SQL application.

End of procedure.

APPENDIX A

```
if NOT exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[xp_md5]'))
EXEC sp_addextendedproc 'xp_md5', 'xp_md5.dll'
GO
if exists (select * from dbo.sysobjects where id = object_id(N'[dbo].[fn_md5]'))
DROP FUNCTION [dbo].[fn_md5]
GO
CREATE FUNCTION [dbo].[fn_md5] (@data TEXT)
RETURNS CHAR(32) AS
BEGIN
    DECLARE @hash CHAR(32)
    EXEC master.dbo.xp_md5 @data, -1, @hash OUTPUT
    RETURN @hash
END
GO
grant EXECUTE on [master].dbo.fn_md5 to [public]
```

