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SANDIA NATIONAL LABORATORIES WASTE ISOLATION PILOT PLANT

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Revision 0**

Analysis Plan for Migration of the WIPP Records Database from eDOCS DM 5.1.0.5 to eDOCS DM 10

Task 4.5.2.1

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1 Introduction and Objective

This analysis plan guides the programmatic design of the migration of the WIPP Records Database which is used as a tool by the records staff to maintain informational profiles to assist in records access.

The purpose of the migration is to upgrade eDOCS DM 5.1.0.5 system to eDOCS DM 10. New Windows 2012 servers will be provided for the installation of DM Server 10 and a SQL Server 2012 database server to host the upgraded library in a staged environment parallel to the existing production system. Most users will be accessing the application via the web client, but there will be a few workstations that will host DM Extensions without application integration.

eDOCS DM 5.1.0.5 is physically located on DOCS2 and is currently running on Dell PowerEdge 2650 - Window 2003, SQL Server 2000 and will be upgraded to eDOCS DM 10 which will be located on CDB running on Dell PowerEdge R620 - Windows 2012 R2, SQL Server 2012.

Prior to and upon completion of migration, a SQL query of the people and profile tables will be performed to insure that the migration has done a complete transfer.

2 Approach

Prior to an Open Text Consultant remote assistance; the following will be performed by John Geilow:

- Installation of Windows 2012 and SQL Server 2012 on the Hardware specification according to the eDOCS DM release notes of the version to be installed.
- Installation of the full Microsoft .NET Framework v4.5 with the latest update.
- Enable IIS Service Role with the ASP feature installed.
- Collection of the DM Licenses and key codes for the installation of eDOCS DM Server.
- Download the eDOCS DM miss installation files and latest patches and all associated software for the migration.
- Have a domain account that will be used for the running of the eDOCS DM Software.
- Setup a desktop for testing of eDOC DM after the migration.
- Backup of current database ran prior to migration.

An Open Text Technician Consultant will perform the following tasks remotely with John Geilow's assistance:

Installation and Configuration of DM Server

- Installation of eDOCS DM 10 Server and DM 10 Webtop software (and latest patches, if necessary) on a Windows 2012 R2 server in a staged environment prior to production cutover.
- Creation of a test database to configure permissions on new SQL Server 2012 R2.
- Migrate a copy of the production databases onto SQL Server 2008.

- Migrate the 2008 copy of the production databases onto SQL Server 2012 R2.
- Run DM 10 upgrade utility and Library Generator on migrated database.
- Rebuild custom forms (one profile and one search form) for testing.
- Create and configure DM 10 indexes for full-text searching on the DM Server.

Functional testing of DM 10 Environment

- Installation of DM Extensions on a test workstation.
- Provide support during basic system functional testing of the upgraded solution in the staged environment.
- Provide support during functional testing of existing database customizations.

DM Production Cut-Over and Support

- Once users are scheduled off the production system, the existing DM Servers will be disabled.
- Production databases will be migrated to the new SQL Server and upgraded and configured for access by users as described above.
- New forms created during testing will be imported into new production library.
- Provide support during basic functionality testing of the upgraded production environment from a client workstation to verify the system is accessible and that documents can be created and edited.
- Remaining time will be dedicated to go-live support the first day of production.

2.1 Project Tasks and Milestones

The migration of the data and verification will be completed by June 26, 2015. At that time, Sandia will provide approval and signoff to Open Text prior to the production cut-over and an analysis report will be generated with the results.

3 Software List

Three software items will be used: SQL Server 2000 will be migrated in a two-step process to SQL Server 2008 and then to SQL Server 2012 subsequent to upgrading the databases to eDOCS DM 10.

4 Tasks

4.1 Testing of the Verification Functions

Functional testing will be done by Grace Duran to ensure accessibility of the database; which will include profiles being created and searches can be performed. If functionality cannot be executed, it will be resolved with the support of the Open Text Technician Consultant.

Prior to migration, John Geilow will perform a SQL query of the profile and people tables and a screenshot of both queries will be capture to verify how many lines are in each table. Once migration is completed, John Geilow will perform another SQL query of the profile and people tables and a screenshot will be capture of both queries. It will then be compared to the first set of queries to ensure that the lines match. If there are discrepancies, it will be resolved with the support of the Open Text Technician Consultant.

5 Special Considerations

If any issues arise in which the migration was not able to take place; DOCS2 Server will then be reinstated. Then a re-run of the SQL queries to verify that DOCS2 Server was moved correctly. With the assistance of the Open Text Technician Consultant, we will resolve any issues.

6 Applicable Procedures

The migration of the software and its validation will be conducted according to NP 9-1, *Analyses* (Safley 2012).

7 References

Safley, L. E. 2012. Nuclear Waste Management Procedure NP 9-1: Analyses, Revision 9.
Carlsbad, NM: Sandia National Laboratories. ERMS 558879.

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