

Patient Medical Records Protection

Using DPM to secure enterprise database servers with full database encryption and access control

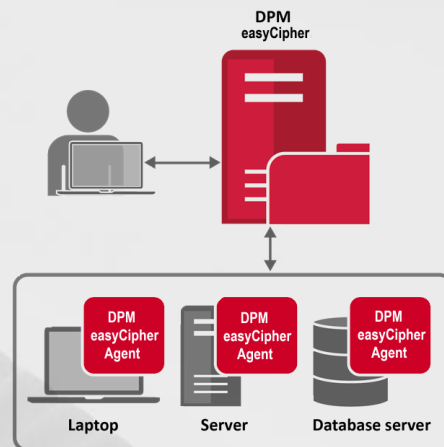
The Challenge

The client needed to protect sensitive patient medical data stored in Microsoft SQL Server databases. The client did not have the resources to make application changes. The performance hit to existing applications accessing the databases needed to be minimal.

The Solution

DPM was used to protect the databases:

- DPM Agent was installed on each database server
- DPM Manager was installed on a new virtual machine



The Benefits

1. No application code changes were required – DPM transparently protected the databases with AES256
2. Database protection is managed by the security admin and not the DBA
3. Protection from all users, including the admin user. Only the database process user is allowed to access the database folder and decrypt the files
4. The same method was applied to both the SQL Server 2008 and 2012 databases. In the future, the same method would apply to newer versions and different database vendors
5. High performance – application impact was negligible
6. No changes needed for existing database and system backup