# Data Management System (DMS) functionality primer

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LcmsNet provides access to DMS functionality via the .Net 4.0 Managed Extensibility Framework (MEF). This functionality allows Lcmsnet to retrieve data from a desired data source and use it in LcmsNet. To take advantage of the DMS functionality, a class must be created that will connect to the desired database/data storage system using the IDmsTools interface located in the LcmsNetSDK. This class should directly interact with classSQLiteTools upon method calls to store retrieved information in the local cache unless another caching scheme is in use. Once this class has been created it must be decorated with the [Export(typeof(IDmsTools)] MEF attribute, as well as the [ExportMetaData(“Name”, “*NameofyourDMSToolHere”*)] MEF attribute and if desired [ExportMetaData(“Version”, “*versionOfYourToolHere”*)]. As of this writing, those are the only two pieces of metadata to use. The metadata available to the DMS functionality may be extended via the IDmsMetaData interface.

After this, compile your library and place the resulting library files in the %appdata%\LCMSNet\dmsExtensions directory during or after install of LcmsNet. Once complete, start LcmsNet, and select your tool in the Configuration window under the DMS tab, if it is not selected by default.