DST DECISION
SUPPORT
TOOLS

Asset Strategy Evaluator

Software Technical Overview

DST DECISION SUPPORT TOOLS

This document contains an overview of the technical architecture of the DST Software aimed at IT Professionals so that they can help support installation of the DST Software.
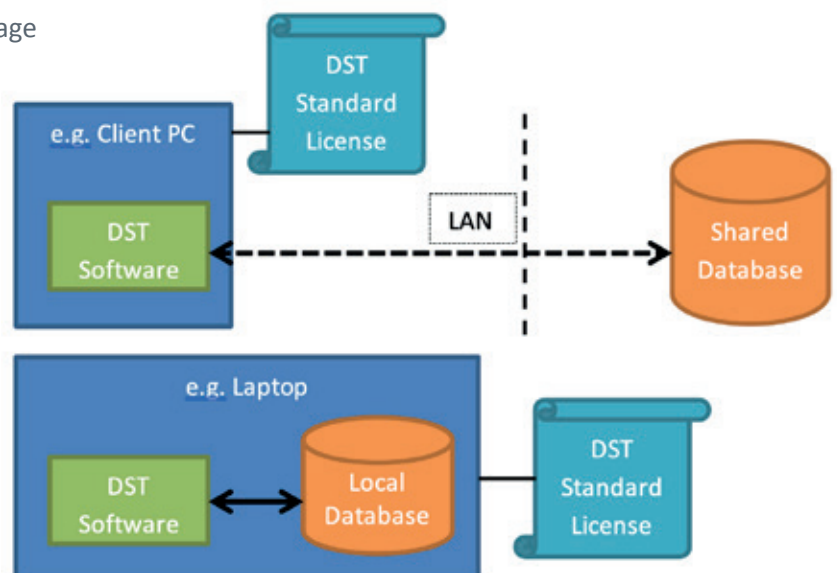
1. Application description

The DST Software is a Microsoft Windows application based on the Windows Presentation Foundation (WPF) which stores and shares asset management decision support and configuration data in a database. It is written in C#. Some controls and database interaction is provided by the third party component suite from DevExpress **(www.devexpress.com)**.

1.1 Deployment

The Software can be deployed in various permutations:

- Standalone PC or laptop
- Shared local network database
- Remote desktop environments
  (e.g. Citrix-type - see Remote usage
  scenarios guide document)

Examples:

2. System requirements

2.1 Supported operating systems

The Software is supported on the following operating systems
in both 32 bit and 64 bit editions of those operating systems:

- Windows XP (SP3)
- Windows 7
- Windows 8.1
- Windows 10
- Windows 11

2.2 Software required

- .Net Framework v 4.0

2.3 Client hardware specifications

- CPU – Intel Core i3 or equivalent (i5 or above recommended)
- Memory – 2Gb (4Gb recommended)
- Program Storage – 200Mb plus database
- (See also database requirements below)

2.4 Client rights needed

- User permission to access and modify local configuration file (.config).

- User permission to append events to the windows application event log.

- User permission to store license information in the registry
  (HKEY_CURRENT_USER\Software\Decision Support Tools Ltd\)

- User permission to access and modify files in "DST" within the User
  Application Data folder (The specific location of this is controlled
  by MS Windows and organisation policy)

3. Database

3.1 Database access

The Software requires access to a designated database server.
This requires a prerequisite of a compatible DevExpress XPO accessible database.

The Software supports these databases:

- SQLLite v3 or above
- SQL Server Compact edition v4
- SQL Server 2005 or above client access, all editions. (See also SQL Server Configuration document).

It is possible that other database providers could be supported.

Additional security policies must cover and allow client access to database servers where shared database usage is required.

3.2 Database recommended requirements

- Storage – approx. 10Mb base plus 1Mb per decision

- Sufficient database access speed (network environments)
  – varies by environment

4. Software security

User access to the software is protected through the use of sign-on user credentials stored per-database. Integrated NT authentication may also be supported. User credentials are maintained by designated administrators.

5. Licensing

The Software is licensed per hardware installation.
A remote desktop (Citrix-like) license is also available.

Shared database scenarios will also require a concurrency license.

6. Integration

The software supports an internal XML format for exchanging one or more 'Decisions' between databases. Additionally certain business Modules support an internal CSV format for Batch operations. Other bespoke integration APIs or mechanisms could be made available.