WINDSX SQL

OVERVIEW

DSX offers two versions of WinDSX Software.

Traditional WinDSX

- Uses Microsoft Access™ to store data.
- Centralized shared set of data files that resides on the File Server.
- Each WinDSX Workstation is capable of reading and writing data to and from the shared files.
- Each Workstation is responsible for looking up data on its own and writing any changes into the database.
- Potential for several different Workstations to be reading and writing to the Database at the same time.
- Each Workstation "touches" the Database.
- Increase use of bandwidth of LAN due to Workstations pushing and pulling Database information.

WInDSX-SQL

- Uses Microsoft SQL Server™ to store data.
- Centralized set of Data files that reside on the SQL Server PC.
- Each WinDSX Workstation uses TCP/IP to make requests to the SQL Server.
- The SQL Server program executes the request and returns the results.
- Only the SQL Server program "touches" the Database leading to a decreased risk of corruption.
  - Liability of a network error causing corruption is eliminated since SQL Server is the only program that touches the Database and runs on the same PC with the Database.
  - The possibility of simultaneous conflicting writes to the same records is eliminated since SQL Server will only service one request at a time.
- SQL Server is designed to handle very large Database files and a high number of users.
- Enhances overall System performance by increasing resources (Speed, RAM) to the SQL Server without making any hardware changes to the Workstation.
- Increases security of System Data.
- SQL Server stands between the world and the Data.
  - Protect data from unauthorized access.
  - Maintains the health of the Database.
  - Responds to requests from Workstations.

REQUIREMENTS

PC dedicated to running SQL Server.
SQL Server must be purchased.
SQL Server must have a Data Base Administrator (DBA) with extensive SQL Server experience. (DBA is a professional who sets up and maintains a SQL Server PC).
Field technicians are unable to set up or maintain a SQL Server.
DSX cannot help with the setup of SQL Server.