

## TECHNICAL DATA

### Software Requirements

- Timberline Office accounting version 8.x or 9.x, including Accounts Payable, Job Cost, and ODBC
- Prolog Manager version 6.5 – 7.5
- Prolog Manager Accounting Integration SDK (available from MPS website)
- Microsoft Internet Explorer 5 or higher  
*Internet Explorer is not required as a Web browser, but the IE system files must be present in order to install Microsoft Data Access Components (MDAC) (as required by Prolog Manager)*

### Supported Configurations

Additional information follows this section that deals with specific workstation requirements. "*Integrator Workstation*" refers to the computer that will run the Integrator software. For networked configurations, all three applications (Timberline, Prolog Manager and Integrator) must be operated on the same LAN (Local Area Network). WAN (Wide Area Network) connectivity is not supported.

#### Configuration 1 - Stand Alone

- Timberline applications installed on *Integrator Workstation* for stand-alone use.
- Prolog Manager application installed on *Integrator Workstation* for stand-alone use.
- Integrator software installed on *Integrator Workstation* for stand-alone use.

#### Configuration 2 - Networked with one Integrator workstation

- Timberline applications installed on network server
- Timberline Client installed on *Integrator Workstation* (by having run the Timberline Workstation Setup utility).
- Timberline ODBC Driver installed on *Integrator Workstation* (also by having run the Timberline Workstation Setup utility)
- Prolog Application installed on *Integrator Workstation* and connected to a shared SQL Server database (SQL Server may be a different server than Timberline server).
- Integrator application installed on *Integrator Workstation* for single use (there should be no more than one workstation configured in this way).

#### Configuration 3 - Networked with multiple Integrator workstations

- Timberline applications installed on network server
- *Integrator Workstation* with Timberline Client installed (by having run the Timberline Workstation Setup utility).
- Prolog application installed on *Integrator Workstation* and connected to shared SQL Server database (SQL Server may be a different server than Timberline server).
- Integrator application files installed on network server (no preference as to which server); Integrator software will not be run on the server. Executables and other files only reside on the server as a way of making them available to *Integrator Workstations* on the network.
- Integrator software installed on *Integrator Workstation* (for each workstation that is to run Integrator).

## Configurations Not Supported

### WAN Connectivity

Integrator must be able to connect with Prolog Manager and Timberline databases across a Local Area Network (LAN) or on a stand-alone computer's drive. Connection to databases over a WAN connection (such as a RAS or T1 connection) is not supported.

### Disconnected

Integrator exchanges information between Timberline and Prolog Manager using real-time connections to each. It does not offer the capability to "export" data that is to later be imported by the receiving application where the receiving application is not connected to the same Local Area Network. For example, if a project site uses a project-site implementation of Prolog Manager, it cannot exchange data with a Timberline Database that is in the home office. If the project-site is utilizing a Citrix (or other type of remote control) connection to the home office to run Prolog Manager, then Prolog Manager is technically running in the home office and so this configuration would be supported.

## Supported Database Connections

- Integrator will support multiple Prolog Manager databases being connected with one Timberline Database
- Each Prolog Database may only be associated with one Timberline Database.
- All Prolog Databases associated with a Timberline database must reside on the same SQL Server.

## Theory of Operation

Integrator "acquires" a list of changes to a given database (Timberline or Prolog) by comparing the current data found in the database to the destination database. From this comparison, it builds a list of records that have either been modified, added or deleted. The user may review all pending modifications to each database if desired and approve them, postpone them, or discard them. Once pending modifications have been approved, the modifications can be performed.

Integrator does not support bi-directional exchange of all types of data. Many data types can only be exchanged in one direction. For each type of data, the user can control the behavior of the interface via specific interface settings. Some interface settings are common to all types (such as the option to add new records only or add new and update existing).

## Unattended Execution

Integrator does not offer a scheduling option for executing the exchange of data. To accommodate this need, a command line execution is supported. This allows Integrator to be launched in such a way that it will start the exchange of data upon startup. The command line execution of Integrator can be implemented in a scheduling program such as Microsoft Scheduling Agent. This will launch an unattended Integrator session at a specific time unattended.

## Technology

Integrator uses the following technology components

Report Generation	HTML
Data Access to Timberline Databases (reading and limited writing)	Timberline ODBC via Microsoft ADO (ActiveX Data Objects) and Data Shaping.
Data Access to Timberline Databases (for writing Commitments and Change Orders)	Timberline Import facilities and auto-executed Timberline macros. Timberline macros are optional.
Data Access to Timberline settings and customizations	Paris - Timberline Objects, developed by Event 1 Software.
Data Access to Prolog Manager databases (reading)	SQL Server ODBC driver via Microsoft ADO and Data Shaping
Data Access to Prolog Manager databases (writing)	Meridian Project Systems AI SDK.
SQL Server database management for Integrator database	Microsoft SQLDMO (Database Management Objects) library.

## Supported Workstation Operating Systems

- Windows 2000, XP, 2003
- Pentium 200 MHz or higher
- 256 MB memory or more
- Hard disk with minimum of 300MB available space
- VGA Monitor (SVGA 17" color monitor recommended) with minimum screen resolution of 800x600
- Mouse or other pointing device
- If networked, network card that matches bus architecture (e.g. PCI card for PCI bus)
- Quality AC power filter with significant RF and spike protection
- Workstation unit, network card and peripherals must be on Microsoft's Windows 95/98/2000 Professional or NT 4.0 Workstation Hardware Compatibility List

### Not Supported

- Cyrix® MII processors if using MSDE (as noted in System Requirements for Prolog Manager)

Note - Windows 95, 98, ME, Windows NT or other Windows operating systems not listed in this document are not supported. Supported operating systems are based on those operating systems supported by the products of Timberline Software, Meridian Project Systems and Event 1 Software collectively.

Note - Workstation unit, network card and peripherals must be on Microsoft's Windows Workstation Hardware Compatibility List