

Star|System|Solutions

Star Projects

Installation Procedures v7.x

Star Projects Installation Checklist

Star Projects comprises a number of components. They can be obtained from a variety of sources including CDROM, FTP file transfer, email and download from the web, <http://www.StarSystemSolutions.com.au>. Please ensure you have the required installation components and follow the steps outlined on the following pages.

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SECTION A

STEP: 1

INSTALLATION OF STAR PROJECTS APPLICATION

From the Star Projects CDROM

Run Star Projects\Star Projects Install\setup.exe and follow the Screen Prompts.

*****IMPORTANT***:**

For Administrator Installation: On the Setup Type Screen:

Select **Custom** (This will allow you to install the **Database Server Scripts**)

For Client Installation: On the Setup Type Screen

Select **Typical** (or **Compact** if hard disk space is an issue)

NOTE 1: Microsoft SQL user SA must be the first user to log into Star Projects and Module Manager to set up additional Users and User Roles.

NOTE 2: Module Manager and Report Manager will need to be installed and configured for Star Projects Security and Reporting. See the relevant sections for set-up and configuration information.

NOTE 3: Adobe Acrobat reader Version 4.0 or later needs to be installed to read the online documentation.

NOTE 4: See Star Projects Users Manuals for system configuration information.

THIS COMPLETES THE INSTALLATION OF STAR PROJECTS ONLY (STEP 1)

STEP: 2

INSTALLATION OF MODULE MANAGER

(For Administrators only)

Module Manager is a program developed by Star Systems Solutions Pty Ltd, which acts as a manager for configuring the Star Projects Application before it is used. Following are the functions performed by the Module Manager:

- User security
- User roles set up
- Report set-ups & management
- Parameters for various functions in Star Projects

From the Star Projects CDROM

Run Star Projects\Module Manager\setup.exe and follow the SCREEN PROMPTS

THIS COMPLETES THE INSTALLATION OF MODULE MANAGER ONLY (STEP 2)

STEP: 3

INSTALLATION OF REPORT MANAGER

Report Manager is a program developed by Star Systems Solutions Pty Ltd, which acts as a front-end application for running the Crystal reports embedded in the Star Projects Application. Apart from providing a seamless interface to the Crystal reports utilising the appropriate ODBC drivers, Report Manager also provides a very user friendly options entry screen where the user can select via text boxes, drop down menus, date ranges etc the appropriate parameters that will be required to run a particular report in Star Projects. Report Manager also enables the addition of new modules to organize other Crystal reports such as AP, AR, GL etc from Epicor 7.x.

NOTE 1:

The Report Manager on the CD-ROM has one install set for Report Manager, and additional install sets for Crystal Runtimes (Versions 8, 9, 10 and 11). Where the Crystal runtime has already been loaded on the client computer, install Report Manager without any Crystal Runtime. Where no Crystal (full or runtime version) exists on the client computer, install Report Manager and then the required Crystal runtime.

You must check each client computer for the existence of Crystal and the compatibility of any other Crystal reports before installing Crystal runtime. At the time of writing these install notes, StarProjects reports were developed using Crystal 8.5 meaning they could be used with crystal runtimes 8, 8.5, 9,10 or 11.

NOTE 2:

Installing Report Manager onto a machine containing the full development version of Crystal 7 will require a copy of crviewer.dll copied and registered onto their machine. This can be retrieved from a machine that has had the Crystal 8 runtime installed. If this step has not been carried out an "Error 382" will occur. Reports developed in Crystal 7 will work with Crystal 8 runtime.

From the Star Projects CDROM

Run Star Projects\Report Manager\setup.exe (Then if required select the setup.exe for the Crystal version runtime.) and follow the SCREEN PROMPTS

Create a directory for the Reports on the Network

Copy the files in the Report directory on the CD ROM to the directory that all report users have access to. See options explorer/module manager to set the pathname.

Create a directory for Attachments on the Network

Any attachments set on a Project, Resource, Task, etc will be saved in this directory that all Star Projects users have access to. See Options Explorer/Module Manager to set the pathname.

Create a directory for Log Files (Post logs)

There is an option to save system generated posting logs into a directory that all report users have access to. See Options Explorer/Module Manager to set the pathname.

THIS COMPLETES THE INSTALLATION OF REPORT MANAGER ONLY (STEP 3)

STEP: 4

CREATING STAR PROJECTS DATABASE ON SQL SERVER

(This section assumes basic knowledge of MSSQL 2000 or 2005)

Create / Select Server

*Using Microsoft SQL Server 2000 as the example in these procedures,
Select the **Enterprise Manager** module*

To select an Existing Server:

In the Server Manager window, navigate within the explorer view on the left-hand side of the screen to view the existing server required.

To create a New Server:

In the Server Manager window, click the right mouse button on the Microsoft SQL Servers Icon.

- Select 'New Server Registration', Press Next >
- Move the Server Required to the 'Added Servers' box on the right of the screen, Press Next >
- Select to connect using SQL login information, Press Next >
- Enter a login of SA and the appropriate password, Press Next >
- Add the server to an existing SQL Server Group or create a new one, Press Next >
- Select Finish

The server should now be registered

NOTE:

If the registration entry returns an "Specified SQL Server not found" error, go to the "Client Network Utility" under the Microsoft SQL 2000 and check if the connection exists for that server, if not, add it. Then proceed with registering the server again.

To create a New StarProjects Database:

From the Server Manager window, select a server; then from the '**Tools**' drop down menu select the menu item titled '**SQL Server Query Analyser.**'



From the toolbar, choose Load SQL Script button.

Select the following script (Administrator directory below Star Projects)

- Auto_StarProjects_ScriptRun.sql**

Carefully look at the "select" statements at the top of the script. The first 4 lines are the most important as they determine the database name that will be created and the location of the script files.



Execute the script by clicking the Execute button or pressing F5.

Creating a New Database manually

The above script uses job steps in the msdb database to perform each step. If for some reason that msdb is not able to be used or there is a preference to perform each step manually, then the database can be created as follows:

From SQL Server Enterprise Manager

Select a server

- Double click the left mouse button to view the folder list that exists within this server.
- Click the right mouse button on the Databases folder and select the 'New Database' option.
- The Database Properties screen will appear

In the Database Properties screen:

Give the database a name (eg. StarProjects)

(Although you may choose any name for your database, the default name is highly recommended. If you are installing multiple Star Projects ledgers, each ledger must be in a separate database. Note that one ledger in a single database can have multiple companies in it, which is different to Epicor where each legal entity can be in its own database. You must insert your own selected name into the Epicor integration scripts before running them.)

Ensure that for each of the Data Files and Transaction Log tab screens:

- The 'Automatically grow file' box is ticked
- The 'by Percent' is enabled with 10 in the adjacent box.
- The 'Unrestricted file growth' button is enabled
- Edit the Initial size (MB) grid field and ensure that the size is set to '30'

Update Security Login for server / database

To Edit the password for the 'SA' login

From SQL Server Enterprise Manager

- Select the Server
- Select the Security Folder
- Select the Login Icon within the Security Folder
- Select the 'sa' login name
- Right mouse click and select the 'Properties' option
- Within the '**General**' tab
- Change the password to a required password for this login.
- Within the '**Database Access**' tab
- Ensure that the Permit tick box is selected for each Database that the 'SA' login is allowed access to.
- Select the OK Button

To create new server logins

From SQL Server Enterprise Manager

- Select the Server
- Select the Security Folder
- Select the Login Icon within the Security Folder
- Right mouse click on the Login Icon and select the 'New Login' option

Within the '**General**' tab

- Enter a Login Name
- Select the SQL Server Authentication radio button and enter a password for this login
- Select StarProjects as the default 'Database' for this login (If appropriate)

Within the '**Database Access**' tab

- Ensure that the Permit tick box is selected for each Database that the new login is allowed access to.
- Select the OK Button

Note: Each Star Projects User must have a SQL Server login AND be added as a User in Module Manager, with an appropriate Star Projects User Role assigned. For assistance please refer to the User Manual for Module Manager.

From SQL Server Enterprise Manager

From the Server Manager window, select a server; then from the '**Tools**' drop down menu select the menu item titled '**SQL Server Query Analyser.**'

Within the '**DB**' drop down field select StarProjects (Or the relevant database name.)

From the toolbar, choose Load SQL Script button.



Select and run the following scripts in order to prepare your database.

- Install_Database.sql
- Initialise_Data.sql

Backup StarProjects Database

From SQL Server Enterprise Manager

From the Server Manager window:

- Select the backup devices folder
- Right Mouse Click and choose New Backup Device
- Type StarProjects for the name and press Create

From SQL Server Enterprise Manager

From the Server Manager window:

- Select the StarProjects Database
- Right Mouse Click and choose Backup/Restore.

The Database Backup Window is displayed

- Select StarProjects as the Database to Backup
- Select Entire Database
- Select Initialise Device
- Choose StarProjects from the backup devices window
- Press Backup Now
- Press OK at the Backup Volume Label Window
- Press OK at the Backup Completed Window

THIS COMPLETES THE CREATION of Star Projects Database on Microsoft SQL Server (STEP4)

STEP: 5

LOADING DEFAULT REPORTS

Using Microsoft SQL Server 2000 as the example in these procedures,
Select the **Enterprise Manager** module

Run the Report script via Query Analyser

From the Server Manager window, select a server; then from the '**Tools**' drop down menu select the menu item titled '**SQL Server Query Analyser.**' In the '**DB**' drop down field select StarProjects (or the relevant database name.)



From the toolbar, choose Load SQL Script button.
Select the following script (Administrator directory below Star Projects)
 PA Reports.sql



Execute the script by clicking the Execute button or pressing F5.

Setup the Report Definitions in Module Manager

USE Module Manager and log in as System Administer

- Select Star Projects – Parameters – Reports – Options – Report Path
- Enter the path of the Star Projects Reports. You must use a UNC name, not a drive letter mapping, for example:
 USE: [\\MachineName\ShareName\DirectoryName](#) and not F:\DirectoryName
- Select Star Projects – Parameters – Reports – Options – Ledger Name
- Enter your Company/Entity Name to be displayed on all reports. If you are using multiple legal entities in the one ledger, choose a name that is meaningful to describe the group of companies.
- Select Tools – import – reports list
- Choose PARports.CRL from the reports directory

THIS COMPLETES THE LOADING OF DEFAULT REPORTS ONLY (STEP 5)

STEP: 6

INSTALLATION OF BORLAND DATABASE ENGINE

This step only required if TimeRecorder is being installed

WARNING: Before the BDE is installed – Search for existing copies of idapi*.cfg on the client machine. Rename any files found to idapi*.old. After installing Star Projects rename this file back to idapi*.cfg..

Installs the Borland Database Engine v5.11. Beware of existing versions of BDE installed on the client machine, as there may be compatibility issues. There is no need to install the BDE if the client machine is already running v5.11.

If a previous version of the BDE is on the client machine make a record of the defined aliases in the BDE Administrator and then uninstall the component. Install v5.11, and recreate the defined aliases.

NOTE: In the event that a previous version of the BDE is uninstalled, all defined aliases will be removed. These aliases will have to be recreated using the BDE administrator for v5.11.

From the Star Projects CDROM

Run Star Projects\BDE\setup.exe and follow the SCREEN PROMPTS

THIS COMPLETES THE INSTALLATION OF BORLAND DATABASE ENGINE ONLY (STEP 6)

STEP: 7

INSTALLING "TIME RECORDER"

From the Star Projects CDROM

Run Star Projects\Time Recorder\setup.exe and follow the SCREEN PROMPTS

Please Note: Time Recorder should ALWAYS be installed after Star Projects, as the BDE that is included within the Time Recorder install does not contain the MS SQL links, which are required for Star Projects.

If the BDE from Star Projects is installed after Time Recorder, the MS SQL links are not always copied onto the client computer by the set-up program.

Time Recorder Configuration

- ❑ Run the Time Recorder program. The first time the program is run you will be prompted to upgrade.
- ❑ Select Create New Data to save new data to the TimeRecorder Data folder created in the installation process or select the data type matching the TimeRecorder version you were using and set the Old Data Directory to the location where your data was being saved (generally the old TimeRecorder icon properties 'Start In' directory location).

You will then be asked to Synchronise Master Lists.

- ❑ Select the directory matching the Star Projects Synchronisation path maintained within the Star Projects Options Explorer menu item: (Refer to Star Projects User Manual for further information on this setting).
- ❑ You must use a UNC name, not a drive letter mapping, for example:
USE: [\\MachineName\ShareName\DirectoryName](#) and not
F:\DirectoryName
- ❑ Select Synchronise.

Within the Star Projects program:

- ❑ Ensure that a 'Synchronise' process has been performed within Star Projects.

NOTE: Star Projects Master files can be scheduled to synchronise automatically and Star Projects can automatically import timesheets and expenses from TimeRecorder, refer to the Technical Manual for system configuration information.

Within the Time Recorder program:

Perform a '**Synchronise**' process from within Time Recorder: (This menu item is accessed from the 'File' drop down menu within the Time Recorder system.)

The master file data from Star Projects will now be assessable to Time Recorder and the user is now able to commence using the Time Recorder program.

A Master Preferences file can be created from the TimeRecorder.ini file located in your TimeRecorder installation data directory. Format this file to contain the following information Column 1 = Tab Name (eg. Preferences), Column 2 = Field Name (eg. Use Phase), Column 3 = Setting (eg. '0' or '1' meaning False or True respectively).

This file can then be saved on the server, generally with the other 'synchronise' files from Star Projects to update TimeRecorder settings automatically for all TimeRecorder users on each synchronise.

Separate TimeRecorder.ini files can be created for separate groups of people requiring different settings. These can be stored in separate locations on the server, and each TimeRecorder user points their "Master Preferences Path" (Preferences, Submit) to the appropriate location.

The data files location is stored within the BDE Administrator within the Control Panel.

TimeRecorder.ini file nominates the default database being accessed as TimeRecorderCurrentDir; this sets the data path as '\.' referring to the "Start in" field in the icons properties (refer to [TimeRecorder Other Data Access](#), Section B, for further information). The timerecorder.ini file being accessed is generally within the same data directory.

Refer to Time Recorder User Manual for further information.

THIS COMPLETES THE INSTALLATION OF "TIME RECORDER" ONLY (STEP 7)

SECTION B: Integration.

8. INTEGRATION WITH Epicor

NOTE: PSQL 4.2 /ERA 7.0/e-by Epicor 7.x Accounts Payable

APVOPostStub_sp and APDMPostStub_sp stored procedures are overwritten during integration installation. These procedures are empty with a standard PSQL 4.2/ERA 7.0/e-by Epicor 7.x installation. You must ensure that they are still empty before you install the integration stored procedures. For users to be able to post Accounts Payable Vouchers and Debit they must be set-up as users of the Star Projects Database. The same applies if inventory integration is installed.

The **PSQL 4.2/ERA 7.0/e-by Epicor 7.x** integration scripts will be included on your disk or they can be downloaded from our web site www.star.cd. Ensure you have the correct integration script for your back office system before continuing with this section.


NOTE: PSQL 4.2 /ERA 7.0/e-by Epicor 7.x Multi-Currency and Multi-Tax

The default behaviour of the following MC and Tax scripts is to DELETE existing tax and multi-currency master file data that is set up in Star Projects, unless the installer changes the script before running. Both MC and Tax scripts have separate settings to 'restrict entry to host' and are turned on by default. Please read the comments at the top of each script for further information.


8.1: Load the SQL Integration Scripts

The integration scripts will need to be run against each Epicor Back Office (PSQL 4.2/ERA 7.0/e-by Epicor 7.x) company database that will be integrated with Star Projects. Any upgrades to existing Epicor Software/Databases could require a new integration script.

From SQL Server Enterprise Manager:

From the Server Manager window, select a server; then from the toolbar, choose the SQL Server Query Analyser button. 

Select Star Projects Company Database for DB

From the toolbar, choose Load SQL Script button. 


Select and run the following integration scripts (located on the CD under eBO Integration)

- StarProjects_eBO.sql
- StarProjects_eBO_MC.sql
- StarProjects_eBO_Tax.sql

Please note: The StarProjects_eBO_Tax.sql clears tax details within Star Projects and transfers all tax types within eBO to Star Projects.

8.2: Modify the SQL Integration Script

Read the instructions on the script regarding replacing naming conventions within the script with your own database names. Eg.

- ❑ Replace all occurrences of 'DemoControl' with the Epicor Back Office Control Database Name.
- ❑ Replace all occurrences of 'DemoData' with the Epicor Back Office Company Database Name.
- ❑ Replace 'StarProjects' with the Star Projects Database Name.
- ❑ If you are integration with PSQL4.2, or e by Epicor 7.x follow the instructions at the beginning of the script to make the appropriate changes.
- ❑ Choose the Execute Query Button 

THIS COMPLETES THE INTEGRATION TO e BACK OFFICE SECTION (Section 8)

9. INTEGRATION WITH Platinum For Windows

NOTE: PFW to Star Projects Transaction Flow Integration:

The flow of information from Platinum for Windows (AP, AR, GL, SO, Inventory) to Star Projects is a two-step process that involves firstly the posting of the transactions within PFW and then the integration of those posted transactions into the Star Projects database through the PFW Interface application. The flow of transactions from Star Projects into PFW (Project Number Creation, AR Invoices and AP Vouchers) is typically a one step process generated through SQL, however, Invoices and Vouchers are added to PFW as "unposted" transactions to give the user a chance to check the GL Account coding. Note: Any changes made to these unposted transactions will not be reflected in Star Projects.

The **PFW** integration files will be included on your CD or they can be downloaded from our web site www.star.cd. Ensure you have the correct integration files for your PFW system before continuing with this section.

Important Note: If you are upgrading from PFW 4.8a/5.0x to PFW 5.4 you MUST follow the upgrade notes in section 9.7 or you will have unwanted transactions posting into Star Projects when you run the PFW Interface after the upgrade. If you are upgrading from a Star Projects version before version 6.40.x, some Star Projects expenses may not flow through to Star Projects.

9.1: PFW Interface Installation Notes:

The installation assumes that Star Projects has already been installed. The installation is comprised of two main components

- ❑ The initial upload of appropriate files to the network in which the PFW Server is located and
- ❑ The installations and configuration that must occur on each client machine.

These instructions apply to StarProjects 6.40.x to PFW 5.4

Check with Star first before using these steps for other combinations.

9.2: Initial Installation of the PFW Interface:

1: Ensure that nobody is logged in to PFW.

2: From the PFW Interface folder on the CD or from the website, run Setup.exe.

The installation directory must be the same directory that Star Projects was installed into (ie PFWInterface.exe, PFWInterface.exe.local, PFWInterface.dll and PFWInterface.dll.local should be in the same directory as the StarProjects.exe).

The interface need only be installed on the client machine. Optionally you can have an installation of Star Projects and the PFW Interface on the Server. You will need to install the entire installation onto a least one workstation that has read/write access to SQL Enterprise Manager, SQL Query Analyser and the PLATINUM directory (PFW Server files directory). This is required to give access to the Administrator folder & subfolders.

3: The following files will be installed in an 'Administrator' subfolders of the folder you selected for the installation:

Star Projects (installation folder)

PFWInterface.exe
PFWInterface.exe.local
PFWInterface.dll
PFWInterface.dll.local

Administrator (folder)

PFW Interface (folder)

ARZDFSC.SRF
Install_PFW_Procs.sql (see SQL Setup)
MDAC_typ.exe
PAREF
Platinum.pdd
Readme.txt

Upgrade for PFW 4.8a or 5.01 (folder)

GetSpare48a501.exe
SetSpare53.exe

4: **PAREF** - Copy PAREF to the PLATINUM Server 'DATA' directory and into the directories of all PFW companies that you will be integrating to Star Projects.

5. **Platinum.pdd** - Make a backup of the PLATINUM Server

'...\PFWRES\MASTER\platinum.pdd' file.

If the Platinum Server '...\PFWRES\MASTER\platinum.pdd' file has not been customised then simply copy the 'platinum.pdd' to the Platinum Server '...\PFWRES\MASTER\' directory as 'platinum.pdd'. If the file has been modified, then you will need to add back in the customisations after installing the platinum.pdd for Star Projects.

6. **ARZDFSC.SRF** - custom lookup file.

6a. If file 'ARZDFSC.SRF' does not exist in the Platinum Server '...\PFWRES\MASTER' directory, copy ARZDFSC.SRF to this directory.

6b. If 'ARZDFSC.SRF' does exist, then make a backup of 'ARZDFSC.SRF' and then copy as per 4a. above and then add back your existing customised lookups.

9.3: SQL Setup:

Log in to Query Analyzer as user 'sa', or an administrative user. Run the Install_PFW_Procs.sql script against the "StarProjects" database you set up in Section A, Step V. Please note the instructions at the top of the script in relation to GL validations.

9.4: Star Projects Quick Setup Steps:

For more detailed information see the PFW Integration User Manual - Company Setup and Star Projects Maintenance Manual.

1. Start Star Projects.
2. Run Maintenance/Setup/Name and Options:
 - Select 'PFW' as Host Category
 - Select 'DLL' as Host Access Method.
 - Enter 'PFWInterface.dll' as DLL Name.
 - Select the required Reference Key Format.
3. Run Maintenance/Setup/ Company:
 - In the 'General Information' section, 'More' button, 'host_currency_code' field, specify the PFW home currency key.
 - In the 'Host Accounting System Integration' section, enter the server name.
 - Enter the PFW base server directory (eg. \\SERVERNAME\PLATINUM) as Control Database.
 - Enter the PFW company name (eg. PREMGL) as Company Database.
 - Check the On-line checkbox. Save these changes.
 - Click the Test Host button and if this succeeds with PFW running,
 - Click the 'Refresh Host Projects' button. This will populate the PFW Star Projects Reference Lookups for use in the AR ,AP, IN, GL and SO reference entry fields (in the format that you specified via the Reference Key Format below).

****Please Note****

a) The PFW 'Reference' field is only 20 characters long. This means that Client, Project and/or Phase codes together with the separator backslashes must total less than 20 characters. If you are integrating to GL, then this is further restricted to 16 characters.

This restriction depends on the Reference Key Format selected in Star Projects under "Maintenance/ Setup/ Name and Options – Reference Key Format".

b) The PFW Invoice number is 16 characters in length so when setting up the Invoice Number mask in Star Projects under "Maintenance/Setup/ Company – Invoice Settings – Next Normal Invoice Number and Next Progress Invoice Number", you must keep this in mind. Note that '0' indicates that the interface will place a 0 in front of the number, i.e. 01001.

9.5: PFW Setup Steps:

1. Zoom lookups can be associated to the entry screens to lookup project references in AR Invoice Entry, AR Credit Memo Entry, AP Voucher Entry, AP Debit Memo Entry, GL Journal Entry, IN Transaction Entry / Transaction Correction, SO Sales Order Entry, SO Shipment Entry. To associate the Start PFW and open each entry screen for the required modules.
 - a. **AP Voucher and Debit Memo entry** - modify the template to associate the Accounts Receivable lookup 'SPREF' with the 'Reference' field on both the 'Misc' tab and the 'Line Items - Default' tab. To make data entry easier, you may want to move this field from the Default sheet to the Line Item sheet. You can save this as a GLOBAL Template (called 'StarProjects') so that all users of PFW can select this view as their default.
 - b. **GL Journal Entry** - modify the template to associate the Accounts Receivable lookup 'SPREF' with the 'Doc' field on the 'Line Items' tab. This name can be changed to Reference to keep it consistent with the name used in other modules. You can save this as a GLOBAL Template (called 'StarProjects') so that all users of PFW can select this view as their default.
 - c. **AR Invoice and Credit Memo Entry, SO Sales Order Entry, SO Shipment Entry** - modify the template to check the 'Line Items' 'Tax' column 'Require Entry' checkbox on the 'Line Items - Line Items' tab and to associate the Accounts Receivable lookup 'SPREF' with the 'Tracking' field on the 'Line Items - Defaults' tab. This name can be changed to 'Reference' to keep it consistent with the name used in other modules. To make data entry easier, you may want to move this field from the Default sheet to the Line Item sheet. You can save this as a GLOBAL Template (called 'StarProjects') so that all users of PFW can select this view as their default.
 - d. **IN Transaction Entry / Transaction Correction** - modify the template to associate the Accounts Receivable lookup 'SPREF' with the 'Reference' field on the 'Line Items - Defaults' tab. To make data entry easier, you may want to move this field from the Default sheet to the Line Item sheet. You can save this as a GLOBAL Template (called 'StarProjects') so that all users of PFW can select this view as their default.

See the PFW User Manual to find out more about adding and maintaining Templates.

2. If you require the PFW to Star Projects Interface posting program and Star Projects application as a menu item, add it using Customization Workbench. Choose to add a tab and then a menu item identifying to execute the PFWInterface.exe and StarProjects.exe programs (default install location is 'C:\Program Files\Star Projects\'). Grant the various user groups' access to the new tab and menu item. More information about Customization Workbench can be obtained in the PFW User Guides.

A key point to keep in mind when adding these menu items in PFW is to ensure that all installs of Star Projects and PFW Interface are installed to the same directory, eg. 'C:\Program Files\Star Projects\'. This way all users will have access to the menu item and path identified via Customization Workbench.

9.6: Integration Notes:

Please refer to the 'PFW Integration User Manual' document included in the Star CD for full integration information and overview.

Refer to the following documents for further information:

- ❑ PFW/Star Projects Integration Installation 'README' file
- ❑ PFW Integration User Manual

9.7 Upgrade Notes:

If you are upgrading from PFW 4.8a/5.0x, perform a final posting into Star Projects. You will then need to run the program GetSpare48a501.exe from the "Upgrade for PFW 4.8a or 5.01" folder prior to upgrading to PFW 5.3. After the upgrade and before processing, you then will need to run the program SetSpare53.exe from the same folder. This is an extremely important step as the Spare fields in the PFW transaction tables are used to store a flag that indicates the transactions have been posted to Star Projects. In PFW 4.8a/5.0x, there were several Spare fields used in each transaction table. In version 5.3, they have been removed and replaced with one long Spare field in each table. During the PFW upgrade process, all data is lost from these fields and hence if the PFW Interface is run, all the transactions that have valid reference codes will be posted again.

If you are upgrading from a Star Projects version before version 6.40.x, you must ensure that all the required expenses have been successfully posted through to PFW before upgrading. (If not, you may have some Star Projects expenses that will not flow through to Star Projects.)

9.8: Client Machine Setup (Quick notes):

1. Install Star Projects on the Workstation as per Section A.

Summary install:

- a) BDE (Borland Database Engine)
- b) Star Projects
- c) Report Manager
- d) Crystal Runtime (if Crystal does not exist on the workstation)
- e) Module Manager (for an Administrative user only)

2. Install PFW Interface on the Workstation.

From the PFW Interface folder on the CD or from the website, run Setup.exe.

The installation directory must be the same directory that Star Projects was installed into (ie PFWInterface.exe, PFWInterface.exe.local, PFWInterface.dll and PFWInterface.dll.local should be in the same directory as the StarProjects.exe).

Ensure that all installs of Star Projects and PFW Interface are installed to the same directory, eg. 'C:\Program Files\Star Projects\' on all machines. This way all users will have access to the menu item and path identified via Customization Workbench.

3. Updating and Registering files on the client workstation:
 - a) Load any patches or copy over existing DLL's or EXE's with any new updates. Note this will be explained on the patch, if applicable.
 - b) You may have to adjust setting in the Control Panel under BDE Administrator/ Configuration Tab/ System/ INIT:
 - SHAREDMEMSIZE: **8192**
 - SHAREDMEMLOCATION setting: **5BDE** (used for Win2K)
 - **Note: there is a different setting for NT and 98/95, please contact your VAR for this information if necessary
4. Login to PFW and select the appropriate templates set up above under "PFW Setup". You can set Default Templates for users by going to the AP, AR, SO, IN or GL screens and going to File/Select Templates – choose the 'StarProjects' template set up above. DO this for each applicable screen, for each applicable user. For more information, see the PFW User Manual.

9.9: Troubleshooting

- 1) If you have any access violations errors when running the PFW Interface you may need to register the *.ocx files using regsvr32, (eg C:\WINNT\system32\Regsvr32 acctrl32.ocx and C:\WINNT\system32\Regsvr32 acbtrv32.ocx)
 - Acbtrv32.ocx,
 - Acctrl32.ocx
- 2) If you receive an error message "Error in transfer", then run the program MDAC_TYP.exe in the Administrator folder of the installation folder. If the error still occurs after this, contact your VAR for support.

THIS COMPLETES THE INTEGRATION TO PFW SECTION (Section 9)

10. INTEGRATION WITH Greentree

Greentree to Star Projects Transaction Flow Integration:

The flow of information from Greentree (AP) to Star Projects is a one-step process that occurs when the AP Invoice batch is closed within Greentree.

The flow of transactions from Star Projects into Greentree (Project Number Creation, AR Invoices and AP Vouchers) is typically a one step process generated through SQL, however, Invoices and Vouchers are added to Greentree as "unposted" transactions to give the user a chance to check the GL Account coding.

Note: Any changes made to these unposted transaction will not be reflected in Star Projects.

The **Greentree** integration files will be included on your CD or they can be downloaded from our web site www.star.cd. Ensure you have the correct version of integration files for your Greentree system before continuing with this section.

10.1: Greentree Interface Installation Notes:

The installation assumes that both Star Projects and Greentree have already been installed.

The installation is comprised of two main components

- ❑ The initial upload of appropriate files to the network in which the Greentree Server is located and
- ❑ The installations and configuration that must occur on each client machine.

These instructions apply to StarProjects 7.0.5.x to Greentree pack 55.

Check with Star first before using these steps for other combinations.

They replace procedures for StarProjects 6.44.x with GT pack 43.

10.2: Initial Installation of the Greentree Interface:

1: Ensure that no one is logged in to Greentree.

2: From the Greentree Interface folder on the CD or Star website, locate **StarProjects_Integration_Greentree.zip**.

3: The following files are included in the zip file:

- borIndmm.dll
- debug.package
- GTCreateGLJournal.dll
- GTInterface.dll
- GTPAPROJ.DLL
- Install_GL_Integration_Procs.sql
- Install_GL_Procs.sql

4: Extract each of the files to the following recommended location :

a) **client system 32** directory

- borIndmm.dll

b) **temporary directory** eg on the server

- Debug.package
- Install_GL_Integration_Procs.sql
- Install_GL_Procs.sql

c) **server Bin** and **client Bin** directory of your Greentree installation

- GTCreateGLJournal.dll
- GTInterface.dll
- GTPAPROJ.DLL

10.3: SQL Setup on StarProjects database:

Using Query Analyzer (in Microsoft SQL Server) as user 'sa', or an administrative user', apply the following scripts to the StarProjects database

- Install_GL_Integration_Procs.sql
- Install_GL_Procs.sql

10.4: Greentree Setup Steps:

1: On the **server**, run **packman.exe** in the Greentree bin directory to load
□ Debug.package

2: On the **client**, run **regsvr32.exe for 'GTPAPROJ.dll'**

By Selecting: Windows / Start button / Run / and then in the 'Open' field type in the path to the file: eg regsvr32 c:\GT21\Bin\GTPAPROJ.dll and then select the OK button.

3: On the **client**, run **regsvr32.exe for 'jadax.dll'** (as per instructions above). Note: jadax.dll should be in the Greentree Bin directory).

4: Start the Greentree Server.

5: In Greentree, set up a user called PAUser (clone of SUPER; on the menu security tab, make sure all Tree options are checked on). Any Greentree transaction created through integration will be against this user. In the Company Maintenance program, for the GT companies being integrated to, make sure that GL Transaction Analysis is checked on.

6: Ensure Star Projects is closed before you carry out this step:

Via Control Panel, System icon, Advanced tab, Environment Variables button, edit the System variable 'Path' and add the path to the Greentree bin directory on the **client** (eg 'C:\Greentree\GT21\PADEV\BIN').

7: If moving data from Greentree to Star Projects (eg closing AP batches in Greentree), the jade ini file (usually called **jadegt.ini** on the **server**) must be manually updated to store the SQL server and database details. This step is only required if the GT close batches program is run for any batches of type APInvoiceBatch, APCreditNoteBatch, GLBankOutBatch or GLJournalBatch. The format required is:

```
[StarProjects_Integration]
GTCompanyCode_Server=servername
GTCompanyCode_Database=databasename
```

eg

```
[StarProjects_Integration]
02_Server=DTBLOGGSJ\SQL2000
02_Database=star6441gt
```

This should be for all GT companies in which you will be closing batches in Greentree even if the specific GT company is not integrated to an SP company eg if 2 companies in GT, 02 and 03, the ini will have:

```
[StarProjects_Integration]
02_Server=DTBLOGGSJ\SQL2000
02_Database=star6441gt
03_Server=DTBLOGGSJ\SQL2000
03_Database=star6441gt
```

Note: shutdown StarProjects and Greentree first before modifying.

- 8: (Optional) – Manually create three Greentree trees with the following codes
- ❑ RESOURCE – to facilitate the integration of Star Projects Resource codes into Greentree when created in Star Projects.
 - ❑ ACTIVITY - to facilitate the integration of Star Projects Activity codes into Greentree when created in Star Projects.
 - ❑ PROJEXPENSE - to facilitate the integration of Star Projects Expense codes into Greentree when created in Star Projects.

For each tree created, specify to use the tree in the 'Transactions' zones for the required companies

10.5: Star Projects Setup Steps:

1: Log into Star Projects. From the **Maintenance, Setup, Name and Options** menu:

- ❑ Set Host Category to 'Greentree'
- ❑ Set Host Access Method to 'DII'
- ❑ Set DII Name to 'GTInterface.dll'
- ❑ Set GL Journal DLL Name to 'GTCreateGLJournal.dll'

- ❑ Set Reference Key Format to one of 'Client Code/Project Code', 'Client Code/Project Code/Phase Code', 'Project Code/Phase Code', 'Project Code'

- ❑ Check on the interfaces you wish to activate eg Accounts Payable, Accounts Receivable and General Ledger.

2: In the Star Projects **Maintenance, Setup, Companies** menu item:

- ❑ Select the Star Projects company/ies you want to link to Greentree company/ies.

- ❑ Set the Control Database to the **client** jadegt.ini file
Note this applies to all client machines, so pathing to this file must be the same on all clients eg C:\Greentree\GT21\PADEV\jadegt.ini

- ❑ Set the Company Database to the **server** GT system directory, then a pipe '|' then the Greentree company code. Setup the directory from the point of view of the server as if you were on the server machine, ie no UNC names and no mapped drives (eg 'C:\Greentree\GT21\PADEV\GTPA|02').
- ❑ Select the 'Test Host' button to ensure all Star Projects setup settings are defined correctly

- ❑ Select the 'On-Line' checkbox.

- ❑ Save the Company record.

- ❑ The 'Refresh Host Projects' button when selected will automatically create within Greentree 'Trees' a tree labeled '**PROJECT**' and insert within this Tree all existing Star Projects Clients, Projects, Phases (according to the Reference Key Format selected).
- ❑ If optional trees exist within Greentree Trees as per explained in 10.4.7 above then any existing Star Projects Resources / Activities / Expenses codes will also be inserted into their relevant Greentree Tree at this time.
- ❑ Save Star Projects Company masterfile information and repeat.

3: In the Star Projects **Maintenance, Setup, Options Explorer** menu item:

- ❑ For the setting **System → Versions → Host Version**, make this value the same as the file version of GTInterface.dll eg 7.0.5.0

THIS COMPLETES THE INTEGRATION TO GREENTREE (Section 10)

11. UPGRADE EXISTING INSTALLATIONS

In order to upgrade your database to match the data structure version of the installed program, you will need to follow these instructions very carefully.

The following procedure assumes there are NO customizations in the Star Projects database. Running the upgrade scripts MAY overwrite special logic that is contained in triggers and stored procedures etc so please be sure you absolutely know what you are doing and are familiar with the database setup BEFORE proceeding. Tools are available to identify customizations – please contact Star if required.

11.1: Determine Current Data Structure Version

From Star Projects

The new version of the program released may require a data structure upgrade. Your database contains an important system option, which is used to indicate the current data structure version. Before you uninstall Star Projects please determine your current data structure version. This will be used as a starting point for running any required data upgrade scripts.

Determine the data structure version:

The menu item Help - About displays the data version.

11.2: Uninstall Star Projects

From Control Panel

Open Add/Remove Programs

Remove component: Star Projects

11.3: Perform Star Projects Installation

By running Star Projects\setup.exe

Ensure all clients have been upgraded to the same version of Star Projects.

11.4: Upgrade the Data Structure by running scripts

*Using Microsoft SQL Server 2000 as the example in these procedures,
Select the **Enterprise Manager** module*

To automatically upgrade a StarProjects database:

From the Server Manager window, select a server; then from the 'Tools' drop down menu select the menu item titled 'SQL Server Query Analyser.'



From the toolbar, choose Load SQL Script button.

Select the following script (Administrator directory below Star Projects)

- **Auto_StarProjects_ScriptRun.sql**

Carefully look at the "select" statements at the top of the script. The first 4 lines are the most important as they determine the database name that will be created and the location of the script files.



Execute the script by clicking the Execute button or pressing F5.

To upgrade the data structure manually:

The above script uses job steps in the msdb database to perform each step. If for some reason that msdb is not able to be used or there is a preference to perform each step manually, then the database can be upgraded manually:

Perform SQL Database Backup as explained in STEP 4

Refer to the file called "ReadMe_StarProjects(manual_scripts).txt".

At the time of writing this document, the above txt file was prepared for version 7.05. The number of sites upgrading from very old versions is very limited and it is not intended to maintain that list beyond this release for the few cases remaining. The automatic script above caters for all scenarios upgrading from any release of the v6.x series to v7.

Please contact Star if you are upgrading to a database structure later than 7.05 AND the database currently being used is before v6.

REMEMBER: Customizations are NOT taken into consideration by any of these procedures – they will be OVERWRITTEN when the upgrade scripts are run.

11.5: TimeRecorder Upgrades

From the Star Projects CDROM

Run Star Projects\Time Recorder\setup.exe and follow the SCREEN PROMPTS

Upgrading versions 3.x;

1. Select Upgrade TR 3.x Data
2. Check or change the Old Data Directory to the location where your data was being saved (generally the old TimeRecorder icon properties 'Start In' directory location)

Upgrading versions 4.x;

1. Select Upgrade TR 4.x Data
2. Check or change the Old Data Directory to the location where your data was being saved (generally the old TimeRecorder icon properties 'Start In' directory location)

THIS COMPLETES THE UPGRADE EXISTING DATABASE SECTION (Section 11)

12. STAR PROJECTS DEMO DATA

NOTE:

Demonstration Data is included on the CD or the Star Web Site. Separate databases are maintained for StandAlone and integration with host system scenarios such as Epicor. In the event the demo database you are restoring does not match the version of StarProjects being installed, please refer to the upgrade procedure above to update it to the current structure.

12.1: Load / Backup Demo Data

Load or backup the Star Projects Demo Data from the Star Projects CDROM:

To do this:

- Locate the zip file called StarProjects_DemoData.zip
- Extract the contents to a suitable directory eg MSSQL backup

12.2: Restore Demo Data

Create a blank database named StarProjectsDemoXXX following the instructions in under Section A, IV creating a database manually. Restore the Star Projects Demo Data into the appropriate Star Projects Database by Using Microsoft SQL Server 2000 Enterprise Manger Module:

To do this:

- Open the appropriate Server and select the Databases folder
- Open the relevant Database which is to contain the Demo Data
- Select '**Restore Database**' Icon or from the database name Right mouse click and select the '**All Tasks**' option and then the '**Restore Database**' option

The Restore Database screen will be displayed:

- Ensure that the Restore as database name is correct
- Select the Restore '**From Device**' radio button
- Press the '**Select Devices**' button

The Choose Restore Devices screen will be displayed:

- Select the '**Add**' Button

The Choose Restore Destination screen will be displayed:

- Edit the File Name displays the correct path and file name of the file that was pasted onto the C: Drive of the machine in the prior steps.
- Press OK on this screen once the File name is correct
- Also Press OK on the 'Choose Restore Devices' screen in order to return to the 'Restore Database' screen.
- Select the Options tab of the 'Restore Database' screen.
- Select the 'Force restore over existing database' checkbox
- Ensure that the More to physical file name paths are correct
- Select the OK button to restore the Demo Data into this location

NOTE: If error similar to 'D:\MSSQL7\data\StarProjectsDemoXXX_Data.MDF cannot be used by RESTORE' appears, the move to physical file name path is incorrect. Change directory 'D' to 'C' drive.

THIS COMPLETES THE "STAR PROJECTS SAMPLE DATA" SECTION (Section 12)

13. TIMEREORDER DEMO DATA

Accessing Demo Data

To do this:

1. Double click on the TimeRecorder Demo icon created on the desktop when program installed.

14. TIMEREORDER OTHER DATA ACCESS

Accessing Other Data

With the creation of a new default database alias (TimeRecorderCurrentDir) the ability to use multiple database aliases is no longer available. If more than one database alias was being used to access different data, complete the steps that follow to access the other data files required.

1. Copy the TimeRecorder desktop icon and rename to desired name
2. Change the icon properties to display the "Start in" file to the directory where the required "data " is stored.

THIS COMPLETES THE "TIMEREORDER SAMPLE DATA" SECTION (Sections 13& 14)

15. RESTORING OTHER DATABASES

Create a blank database and restore your data as per the instructions for restoring the demo data.

Once you have done this you may need to run the following commands on the database to restore the security.

- sp_dropuser Parhelion
- sp_adduser Parhelion

THIS COMPLETES THE "DATABASE RESTORATION SECTION" (Section 15)

SECTION C

TROUBLESHOOTING

16. COMMON PROBLEMS

16.1: Unable to log in to Star Projects

- Check the Server Name being used
- Check the Database Name
- Check the Database Exists
- Check the SQL Server connection in Client Network Utility
- Check Login ID and Password has access to the Database
- Check the Star Projects Server is being registered on the Client Machine – to do this use the start run command regsvr32 C:\Program Files\Star Project Accounting\StarProjects.dll (or StarProjectsAppServer.dll for v6.20 or higher).

16.2: Log in “An Error occurred while attempting to initialize the Borland Database Engine (Error \$2104)”

- Logon to the local machine as the Administrator
- Go to Start | Run... Type regedt32
- Select HKEY_LOCAL_MACHINE on Local Machine
- Double-click SOFTWARE
- Click once on BORLAND
- From the menu at the top, select Security | Permission...
- Check Replace Permission on Existing Subkeys
- Click on Add...
- Double-click Domain Users
- Under Type of Access:, select Full Control and click OK
- Click OK to exit the Registry Key Permissions dialogue box
- Exit the Registry Editor window
- Log off as Administrator and log back in as the user
- In addition, you need to add a share under c:\program files\common files\borland shared - full access including full control

16.3: Reports

- Check the install procedures have been followed correctly.
- Rerun the PARports.sql after any integration has been set up.

16.4: TimeRecorder

- Login from the Icon on the desktop.
- Check the 'start in' location under properties to make sure it is for the correct location
- Check the Database Alias
- Check the synchronise path
- Rerun the synchronise function
- Select New Timesheet
- If error occurs, close down the application and log in again.

16.5: CITRIX

Problems have been experienced running Star Projects on a Citrix / Terminal Server machine by a user who is not an Administrator on the terminal server itself. The issue appears at login time, and is related to rights to read BDE settings in the registry. The particular key of concern is HKEY_LOCAL_MACHINE\Software\Borland.

To work around this issue, read/write rights should be given to this key and its children for users who are logging in remotely to run Star Projects. This can be done using REGEDT32 which allows you to set security on registry keys.

16.6: Microsoft SQL Server Client

Please note if Star Projects is run on a machine without the Microsoft SQL Server client utilities loaded a message similar to the following will be displayed:

Could not open database 'pa_*

Vendor initialization failed.

Cannot load an IDAPI service library.

File: NTWDBLIB.DLL

Alias: PAData

Solution is to install the SQL Client utilities, which is a part of the SQL server install.

16.7: NT Authentication with SQL2000 Client connectivity

Please note if logging into Star Projects using Windows NT Authentication without the client protocol set to 'Named Pipes' a message similar to the following will be displayed:

Could not open database 'pa_*

Unknown user name or password.

Login failed for user '(null)'. Reason: Not associated with a trusted SQL Server connection.

Login incorrect.

Alias: PAData

Solution is to set the SQL2000 Client connectivity client protocol to 'Named Pipes'. This can be setup using the default protocol, or by configuring an alias in the Client Connectivity tool.

16.8: "No user transaction is currently in progress" error

The following error may appear in a StarProjects screen.

*"No user transaction is currently in progress.
The ROLLBACK TRANSACTION request has no
corresponding BEGIN TRANSACTION".*

It occurs because an error has happened in the sql database, usually stemming from an issue with code in a trigger. The database has rolled back a transaction and then control is handed back to the StarProjects application which also tries to cancel (rollback) the update but it can't because it has already been done. The Rollback Transaction error is typically accompanied by the real error message that may not be displayed to the user. Where this occurs, the approach is to use Query Analyser to manually initiate updates or calls to stored procedures to reproduce the rollback so the additional error message(s) is displayed.

16.9: Login error "Password validation failed.." SQL 2005

The following error may appear in a StarProjects screen.

"Password validation failed. The password does not meet Windows policy requirements because it is not complex enough."

StarProjects uses a sql server login called "Parhelion" to securely login to the database behind the scenes. In SQL Server Management Studio, locate the Parhelion user under Security → Logins and bring up the properties screen. Ensure the "Enforce password policy" checkbox is not ticked.

16.10: StarWeb error "... WebTRinput.asp ... Line=478"

This is a very common error message that is easily resolved! It is caused by popup blockers interfering with the web application. Please disable popup blockers in the browser (eg Yahoo) and IIS.

16.11: StarWeb Internet Explorer crashing unexpectedly

Check the following 2 items which are known to interfere with XML:

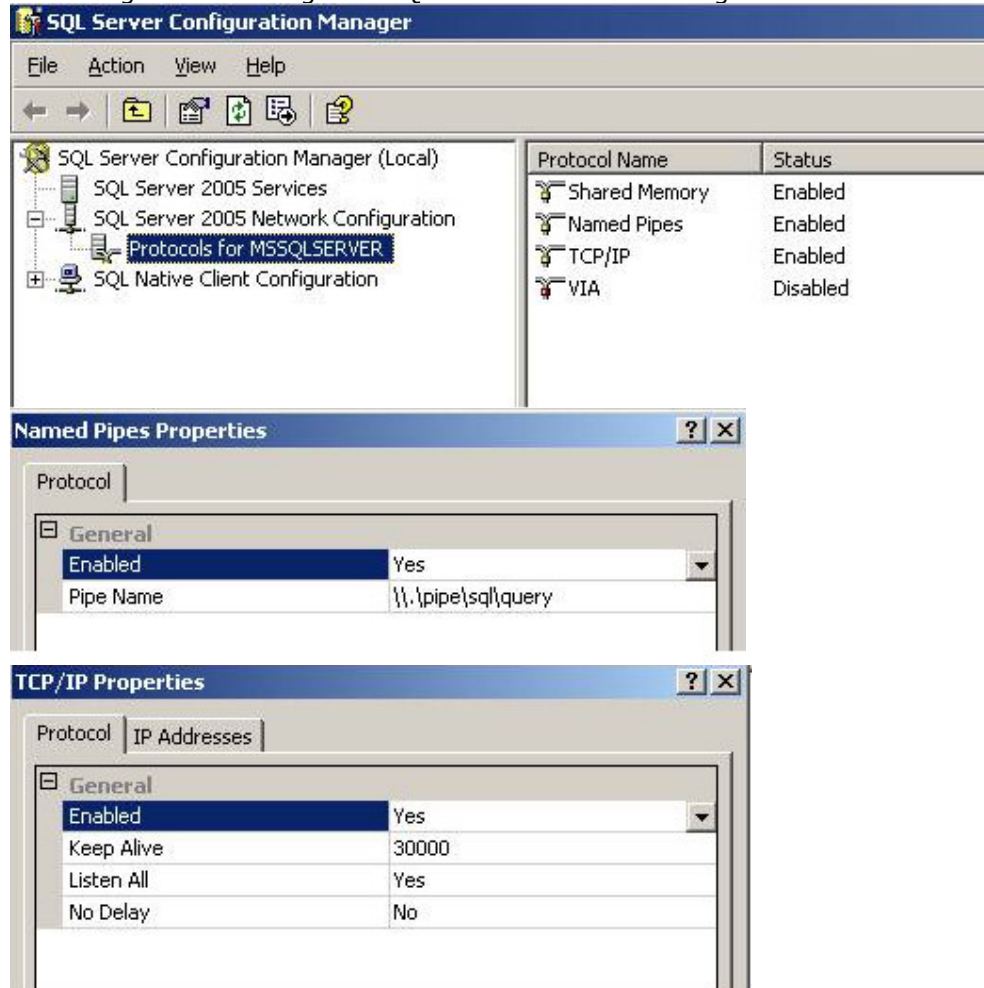
a) Ensure there are no 'extended' characters in the data such as apostrophes, accents on international characters or other symbols,

b) Ensure all Microsoft service packs are loaded, particularly the following which resolves an issue with the XML packet size processing in msxml:
<http://www.microsoft.com/downloads/details.aspx?FamilyID=341caf5f-0cdd-47a8-af5d-91e14fcf7a0d&DisplayLang=en>

17. SQL SERVER 2005 ENVIRONMENTS

17.1: Ensure server protocols are enabled

- A standard SQL 2005 install will only have the Shared Memory protocol enabled meaning only SQL Management Studio will have access to the sql server. StarProjects requires Named Pipes or TCP/IP protocol to run. Set this up BEFORE running any StarProjects scripts.
- Start → Microsoft SQL 2005 → Configuration Tools → SQL Server Configuration Manager → SQL Server Network Configuration



17.2: Ensure the xp_cmdshell setting is enabled

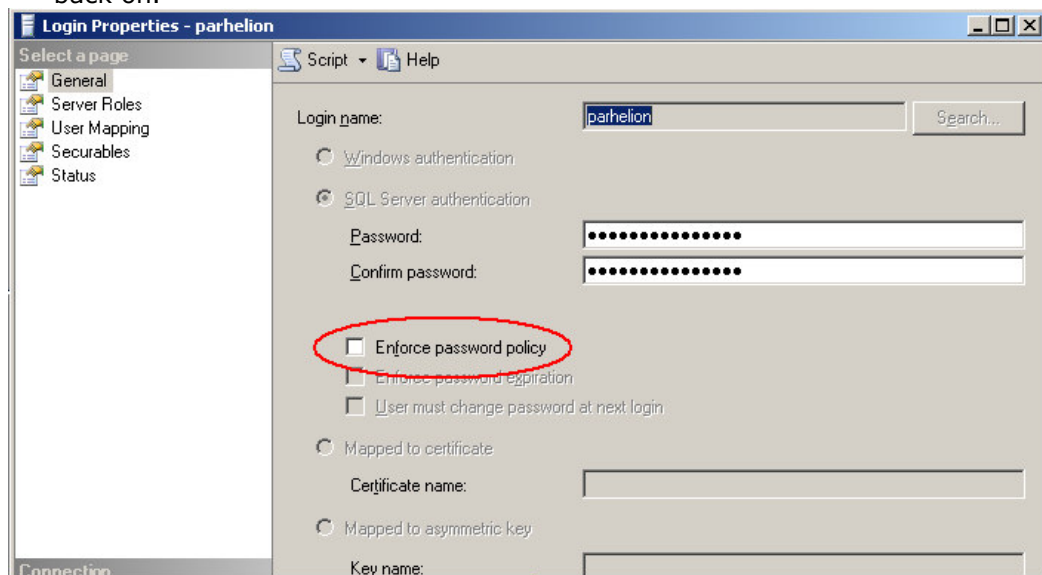
```
EXEC sp_configure 'show advanced options', '1';  
GO  
exec sp_configure 'xp_cmdshell', '1';  
RECONFIGURE;  
GO
```

17.3: SQL queries – non ANSI joins have been deprecated

- ❑ Non-ANSI joins look like += or =+ and should be replaced with the syntax *LEFT OUTER* to the relevant table.
- ❑ Databases contain a Compatibility Level (SQL Management Studio -> Database Properties -> Options) which could be used to allow non ANSI joins, but this is not recommended
- ❑ This is relevant for customised procedures and report procedures that may exist in established systems.

17.4: Password have a built-in expiration queries

- ❑ StarProjects uses a special login called *parhelion* to login to the database behind the scenes. This model is called Third Party Security that is used by other vendors as well.
- ❑ On a new install, the *parhelion* user is created automatically the first time a user attempts to login to StarProjects. It is created with the Enforce password policy option turned off which should NOT be toggled back on.



17.5: Querying system tables like sysobjects

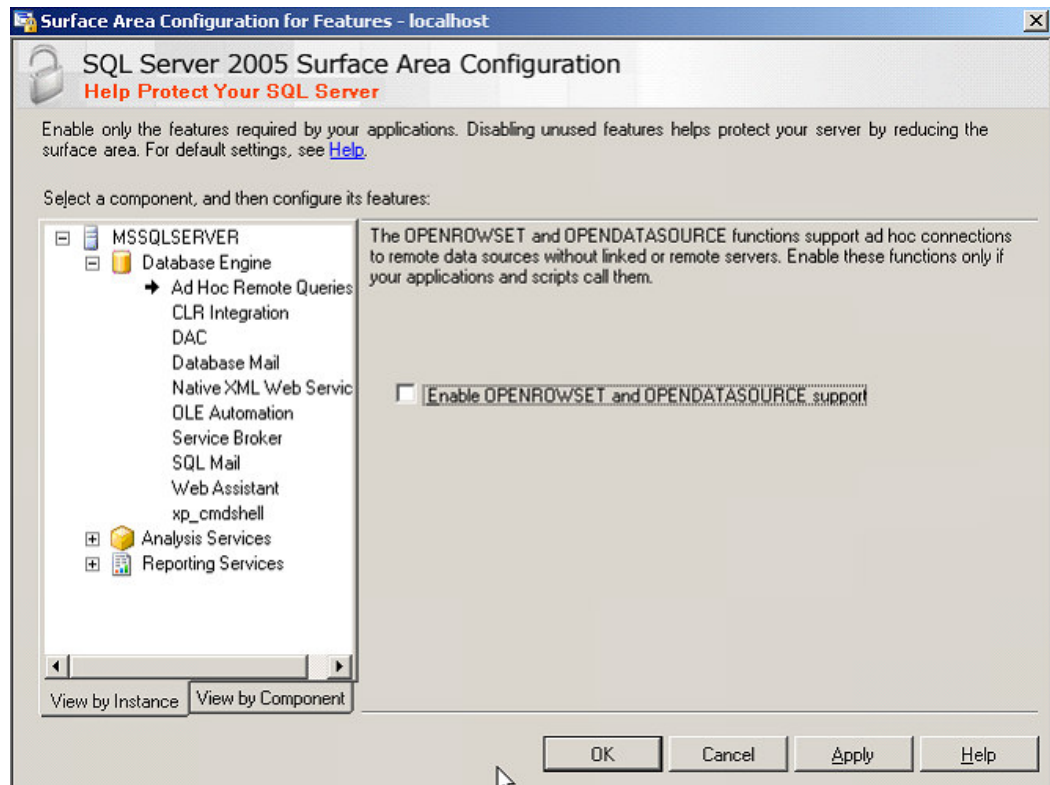
- ❑ Under sql server 2000, it was possible to directly query system tables like sysobjects (in the master database). Under sql server 2005, these objects are now setup as a view which only members of sysadmin can query. You can grant SELECT rights to non-sysadmin logins but you still won't see all of the data.
- ❑ This may potentially affect the running of special utility/repair scripts used for technical support of the system. In such cases the privilege of the user must be changed to include this level of access.
- ❑ Setup the *parhelion* login to have securityadmin and sysadmin access.

17.6: Excel Import error in budget/journals screen "SQL Server blocked access to STATEMENT 'OpenRowset/OpenDatasource' of component 'Ad Hoc Distributed Queries'"

- If you see an error dialogue that looks like this ..



then a new configuration setting needs to be enabled, please check the option below and stop and restart your SQL Server Instance.



- The other way to change the setting is to run the following script:
EXEC sp_configure 'show advanced option', '1';
go
exec sp_configure 'Ad Hoc Distributed Queries', '1';
RECONFIGURE;
EXEC sp_configure;
go

17.7: Collation sequence of databases

- ❑ The collation sequence of the master, tempdb and StarProjects databases should be the same. We recommend "Dictionary order, case-insensitive, for use with 1252 character set" also known as SQL_Latin1_General_Cp1_CI_AS as this collation is compliant with databases migrated from SQL 7 environments and the demo database supplied with StarProjects.

17.8: Dropping a user from the database

- ❑ Dropping a user from the database requires the schema to be dropped first. Refer to <DatabaseName> → Security → Schemas

THIS COMPLETES THE "TROUBLESHOOTING" SECTION (Section C)

18. GENERAL INFORMATION

System Requirements

Server:

- Pentium IV 800 MHz Processor or greater
- Win2000 Pro, Win2000 Adv Server, Win2000 Enterprise, Win2003 Server
- 512Mb Ram (Minimum)
- RAID or Mirrored disk configuration is recommended.
- 5Gb Hard Disk SCSI (available to Star Projects)
- TCP/IP Network Protocol
- 100Mb/s Network
- Microsoft SQL Server 2000 or 2005

Client:

- Pentium IV 800 MHz Processor or greater
- Windows 98, 2000, XP, NT 4.0 Workstation, Windows NT Terminal Server Client, Citrix ICA Client
- 512Mb Ram
- 10 Mb Hard Disk
- TCP/IP Network Protocol
- 100Mb/s Network
- SQL Client Connectivity (from the SQL Server CD)
- Microsoft SQL Server Utilities
- If your system does not meet these requirements, the program may not run correctly.

CITRIX

For the installation of any application on Citrix, including Star Projects & TimeRecorder, before you start the install go to a command prompt and type;
CHANGE USER /INSTALL, run the install and then return to your command prompt and type;
CHANGE USER /EXECUTE. This will ensure that the installed program is available to everyone.

THIS COMPLETES THE "GENERAL INFORMATION" SECTION (Section D)

Email info@star.cd for any further assistance.