

## Working with Databases in P6 8.4

**Don McNatty, PSP** 

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- Primavera Contract Management Implementation Specialists



### Platinum ORACL artner

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## 2014 Technical Webinar Series



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- Questions during the session, questions can be submitted through the Questions Box on the right side of the screen. We will try to address your questions at the end of the presentation, time permitting.
- Follow up all registrants will receive an Excel file listing all questions. and responses along with a link to the recorded webinar.





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- The statements made in this technical presentation are based on our current knowledge of the tools.
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# Abstract – Working with Databases in P6 Pro 8.4

- With the release of P6 8.4 Oracle has replaced the local database Oracle Express with Oracle SQLite. SQLite has some limitations with P6 Pro including no access to Claim Digger. We've always been fans of using MS SQL Express for local installs rather than Oracle Express. Not only is MS SQL Express free, it supports multiple databases on local installations with no sacrifice in functionality.
- We will review the positives and negatives of each choice and walk through the process for installing P6 Pro with the local (SQLite) database and also configuring it to run with MS SQL Express 2012.





# Working with Databases in P6 Pro 8.4 Agenda

- Overview of P6 Pro 8.4 Databases
- Installing P6 Professional 8.4 with SQLite
- Download and Install MS SQL Express 2012
- Configuring MS SQL Express and P6 Pro 8.4
- Migrate existing databases to 8.4
- Summary
- Questions

te 2012 ro 8.4





# **Overview of P6 Pro 8.4 Databases**

- Supported local databases
  - Oracle SQLite
  - Oracle Express (P6 8.2, 8.3). If you have previous version it will run with 8.4.
  - MS SQL Express (2005, 2008, 2012)
- Supported group (server) databases
  - Oracle 11, 12
  - MS SQL 2005, 2008, 2012
- P6 Pro can also connect to P6 EPPM databases
  - Direct connection across a LAN or WAN
  - P6 Pro Cloud Connect





### P6 Pro Cloud Connect

+ Direct connect to EPPM via WAN - Administration and Global data removed for P6 Pro - Latency increases as users increase

- + Easy installation
- + Multiple databases
- + Share db: copy from Documents folder
- No ClaimDigger\*
- No Check-In/Check-out\*
- No XML import\*
- No Update Baseline\*
- No Administration for multiple users

\* Additional functionality expected to be re-added through Service Packs.





# Installing P6 Pro 8.4 with Oracle SQLite

- Download Software
  - www.edelivery.oracle.com
  - Oct 2014 DRM Tech Webinar: www.drmcnatty.com/Webinars/14Oct/
- Unzip into folders
- Typical Installation uses Oracle SQLite
- Oracle SQLite does limit some P6 functionality





# **Installing P6 Pro with Oracle SQLite** Go to the P6 Pro software folder and click on "Setup"

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# **Installing P6 Pro with Oracle SQLite**

Installation process runs...

17	Primavera P6 Professional Setup	- • ×
	Installing Primavera P6 Professional	PRIMAVERA
	Please wait while the Setup Wizard installs Primavera P6 Professional.	
	Status: Generating script operations for action:	
	Back Next	Cancel











### Installing P6 Pro with Oracle SQLite $\mathbf{X}$ Primavera P6 Professional R8.4 Focused on our Future. Primavera P6 Professional R84 Database Config P Primavera P6 Professional R8.4 F **Database Configuration** Select Driver Type Installing P Please select the driver type for the P6 Prol database connection. Con Please wait whi If you are not sure which driver type to sele You c Enter the admin username and password for the database. The admin user is your administrator connr the single user with access to the standalone database. Status: After selecting a driver type, click Next to c Database Alias Datab PMDB. PMD P6 Professional driver type Login Name Personal name P6 Pro Standalone (SQLite) 🔻 admin SYSTEM Oracle Microsoft SQL Server/SQL Expre Enter new password Confirm new password Primavera Compression Server \*\*\*\*\* XXXXX P6 Pro Cloud Connect P6 Pro Standalone (SQLite) Can Back Cancel Back







# **Installing P6 Pro with Oracle SQLite**

Primavera P6 Professional R8.4	Х
Database Configuration	
Enter the database file name to be added with this connection Database Alias PMDB User name Stand-alone database file admin File Name C:\Users\Donald\Documents\PPMDBSQLite.db	
Cancel Back Finish	



Proud of our Past. ocused on our Future.	Primavera P6 Professional R8.4
	Database Configuration
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	Congratulations! The database connection was successful. You may now return to your application by selecting Finish.
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PMDB User name	PMDB
admin	
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## Lite



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C:\Users\Donald\Do		Load Sample Data	Click N
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### **Installing P6 Pro with Oracle SQLite** $\mathbf{X}$ Primavera P6 Professional R8.4 Focused on our Future. P Primavera P6 Professional Setup Database Databa Databas Connection Suc Completed the Primavera P6 Professional ORACLE<sup>®</sup> Setup Wizard Congratulations! The database PRIMAVERA selecting Finish. Click the Finish button to exit the Setup Wizard. Enter the database Enter the database file Database Alias Database Alias New\_Connection Database alia: PMDB. PMDB User name User name admin admin File Name File Name C:\Users\Donald\ C:\Users\Donald\Do Load Sample D Load Sample Dat Cancel Cancel Back Cancel Back







# Installing P6 Pro with Oracle SQLite

SQLite supports multiple standalone databases



1	Select
0	Cancel
÷	Add
×	Delete
1.2	Configure









## **Download/Install MS SQL Express 2012** http://www.microsoft.com/en-us/download/details.aspx?id=29062

Re: MS SQL Express for P6 × Download Microsoft® SQ ×
← → C ↑ □ www.microsoft.com/en-us/download/details.aspx?id=29062
👖 Apps 🚦 Sign In 📋 Imported From Firef 🎦 Sign in - Google Acc 🗋 P6 EPPM 8.4 🧿 P6 8.4 Team Member 🛛 » 📋 Other bookmarks
Microsoft
Download Center
Shop 🗸 Products 🗸 Categories 🖌 Support 🗸 Security 🗸
Microsoft® SQL Server® 2012 Express
Select Language: English
Microsoft® SQL Server® 2012 Express is a powerful and reliable free data management system that delivers a rich and reliable data store for lightweight Web Sites and desktop applications.

24

## Click "Download" **MS SQL Express** is free.





# **Download MS-SQL Express 2012**

🏹 Re: MS SQL Express for P6 🗙 📑 Download Microsoft® SQ 🗴 📃		
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Choose the download you want		⊗ _
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ENU\x64\SQLEXPR_x64_ENU.exe	132.3 MB	Download Summary: 1. ENU\x64\SQLEXPRWT_x64_ENU.
ENU\x64\SQLEXPRADV_x64_ENU.exe	1.3 GB	2. ENU\x64\SQLManagementStudi
ENU\x64\SQLEXPRWT_x64_ENU.exe	669.9 MB	
ENU\x64\SqlLocalDB.MSI	33.0 MB	
ENU\x64\SQLManagementStudio_x64_ENU.exe	600.2 MB	<
ENU\x86\SQLEXPR_x86_ENU.exe	116.7 MB	Total Size: 1.2 GB

## Download the file version with tools ("WT").





# **Download and install MS-SQL database for P6**

Install the database next









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# Click to do a stand alone install





### As always... you have to accept the license terms to move on

1	SQL Server 2012 Setup	_ 🗆 🗙	16	SQL Set
License Terms To install SQL Server 2012, you	must accept the Microsoft Software License Terms.		Product Updates Always install the latest	updates to enhance your SQL Server sec
License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 EXPRESS These license terms are an agreement between Microsoft Corporation (or based live, one of its affiliates) and you. Please read them. They apply to the software which includes the media on which you received it, if any. The terms also apply • updates, • updates, • supplements, • Internet-based services, and • sunnort services • I accept the license terms. • Send feature usage data to Microsoft. Feature usage data includes information abor configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more. For the Configuration of the software of	named above, to any Microsoft	License Terms Product Updates Install Setup Files	Include SQL Server product   Name   SQL Server 2012 SP1 GDR Setu   1 updates (26 MB) found online   The Setup updates (26 MB) will   Read our privacy statement on   Learn more about SQL Server privacy
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### The server installs...

15	SQL Server 2012 Setup 🗕 🗖 🗙		1	SQL Serve		
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License Terms Product Updates Install Setup Files	Update is being extrac Task Scan for product upd Download Setup files Extract Setup files Install Setup files	Stat ates Com Com In Pr	npleted nogress started SQL Server		Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Features: Instance Features SQL Server Replication Shared Features SQL Client Connectivity S SQL Client Connectivity S ColoalDB Redistributable Features Select All Unselect All Shared feature directory: Shared feature directory (x86):
			< Back Install	Cancel		

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	rosoft SQL Server\	

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Help

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### The installation runs...

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### Installation continues...

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### Be sure to write down your password...

16	SQL Server 2012 Setup	_ 🗆 ×	1	SQL Serv
Database Engine Conf		jine.	Error Reporting Help Microsoft improve SQL S Setup Support Rules Feature Selection Installation Rules Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	
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## Installation process continues...

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34					<b>D R McNattv</b>



## Installation complete.

<b>1</b>	SQL Server 201	2 Setup – 🗖	×		
Complete Your SQL Server 2012 installat	ion completed successfully with product up	dates.			
Setup Support Rules	Information about the Setup operation or possible next steps:				
Feature Selection	Feature	Status	^		
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		Close Help			





# **Download and install MS-SQL database for P6**

Then you need to configure the MS-SQL database








### Browse to SQL Configuration Manager

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Right click on "Named Pipes" and click "Enable"

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File Action View Help				File Action	View Help	
<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Services</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>Protocols for SQLEXPRESS</li> <li>SQL Native Client 11.0 Configuration</li> </ul>	Protocol Name Shared Memory Named Pipes	Status Enabled Disabled Disabled	Enable Disable Properties Help Warning Any changes made will be saved; how the service is stopped and restarted.	■       SQL Servi         ■       SQL Nati         ■       SQL Servi         ■       Proto         ■       SQL Nati	Configuration Manager (Local) ter Services ter Network Configuration (32bit) ter Network Configuration bcols for SQLEXPRESS twe Client 11.0 Configuration <b>Right click</b> <b>Go to "Pro</b>	Protocol Shared Name TCP/I
Enable selected protocol.				Opens the proper	rties dialog box for the current selecti	on.







### **TCP/IP Properties dialog opens**

TCP/IP	Properties ? ×		Т	CP/IP Properties	? ×
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### Be sure TCP Port is set to "1433"



### Click on "SQL Server Services"

🚡 Sql Serv	ver Configuration Manager	_ □	×	<b>a</b>	Sql Serv	ver Configuration Manager
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<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Services</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Native Client 11.0 Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>Protocols for SQLEXPRESS</li> <li>SQL Native Client 11.0 Configuration</li> </ul>	Name	State Stopped Running Stopped	Star Oth Auti Oth	<ul> <li>▷</li></ul>	es ork Configuration (32bit) t 11.0 Configuration (32bit) ork Configuration SQLEXPRESS	Name SQL Server Browser SQL Server (SQLEXPRESS) SQL Server Agent (SQLEXPRESS)
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State

Start

Stop Pause Resum Restart

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# **Download and install MS-SQL database for P6**

Then, create the P6 database instance









### Double click on "dbsetup.bat"

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🐝 Homegroup	dbsetup.sh	9/30/2014 8:50 AM	SH File			
	📄 default.log	10/1/2014 1:07 PM	Text Document			
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### ext" to create a new Microsoft SQI Server





Enter the MS-SQL DBA password...

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Connection Inform Enter the information re DBA user name DBA password Database host addr	Connection Information         Enter the information required to connect to the database server         DBA user name       sa		Primavera Database Setup Wizard <b>ft SQL Server</b> database and the location where the data and log files will be stored.   PMDB_MSSQL   PMDB_MSSQL   arver\MSSQL11.SQLEXPRESS\MSSQL\DATA\PMDB_MSSQL_DAT.MDF   ierver\MSSQL11.SQLEXPRESS\MSSQL\DATA\PMDB_MSSQL_LOG.LDF   Database default <b>Give your database a name</b>
	Previous		<pre>&lt; Previous Next &gt; Cancel Click "Next"</pre>
43			<b>D R McNatt</b>

software • professional services • ho



Critical step...,

Primavera Database Setup Wizard –						
Create SQL Server Users Enter privileged and public user name.						
Use existing privilege userUse existing public userPrivileged user nameprivuser1Public user namepubuserPrivileged user passwordPublic user passwordImage: State of the state						
< Previous Next > Cancel						





### Set up "privuser"

	Primavera Database Setup Wizard 🛛 – 🗖 🗙	Check bo
Create SQL Server Enter privileged and		"privuser"
✓ Use existing Privileged User Privileged user		<ul> <li>Default particular is privuser is be different initial P6 i</li> </ul>
	< Previous Next > Cancel	No passw "pubuser"

### **Click "Next**"

### ck both boxes for user" and "pubuser" ult password for ser is "privuser" (could fferent if changed on I P6 install) assword is required for





User name and password dialog opens...

Primavera Database Setup Wizard	Create a
Configuration Options Configuration Options	Adminis
Application User Administrative user name admin	name ai "admin"
Administrative user password       ●●●●●         ✓ Load sample data	If creating be sure
Currency USD - Dollar 🗸	Sample
Install Cancel	

### **Click "Install"**

# a password for the istrator. The default and password are

### ting a blank database e to uncheck "Load e Data".





The installation process creates the database...



zard		—		Х	
es)					
	Next >	>	Ca	incel	





### Click "Next" when complete

Primavera Database Setup Wizard	d — 🗆 🗙
Primavera Database Setup Wizard Primavera Database Setup Wizard	Primavera Database Setu
✓ Create the PPMDB tables	Finish
<ul> <li>Load Sample Data</li> <li>Create remaining database objects (e.g. constraints and indexes)</li> </ul>	The installation has been completed. Click "Finish" to exit continue with another installation.
	<ul> <li>Click "Next" to create a database</li> </ul>
	Click "Finish" if done







# **Download and install MS-SQL database for P6**

And finally, configure an alias to link to P6







Run the P6 Database Configuration module







### Click to "Create a new database alias"



### Type a "database alias"

### Click "Next" Finish Next



×



Enter the Host and Database name...

Primavera P6 Professional R8.4		Microsoft SQL Server Manag
Database Configuration		File Edit View Debug Tools Windo
Host Name FACEPRO\SQLEXPRESS	tion You may need to check the full "Host Name" in MS SQL Server Management Studio	Imagement           Imagement
🖉 Cancel 🛛 📢 Ba	ck 🚺 Next 🔯 Finis	
	Click "Install"	Ready







### Enter Privuser name and password







Always hold your breath for this screen to appear...

Primavera P6 Professional R8.4	
Database Configuration	The alias is now available in P6
Connection Successful! Congratulations! The database connection was successful. You may now return to your application by	Edit Database Connections     Available Databases
selecting Finish.	New_Connection_1 PMDB PMDB_MSSQL Cancel
Database alias PMDB_MSSQL	⊕ Add             ★ Delete
	Type:       SQLServer       Configure         Details:       DONSSURFACEPRO\SQLEXPRESS: PMDB_MSSC
Cancel Back > Next Simish	
Click "Finis	sh"





### Migrate Existing databases to 8.4

Run dbsetup.bat (not migrate.bat)

G O ♥ → don → Downloads → P6_R84_Database →	Primavera Database Setup Wizard
File     Edit     View     Tools     Help       Organize ▼     Image: Open     Share with ▼     Print     Burn     N       ★     Favorites     Name     Image: Open     Name	Primavera P6 Install or Upgrade Primavera P6 databases
<ul> <li>Desktop</li> <li>Downloads</li> <li>Dopbox</li> <li>Google Drive</li> <li>Recent Places</li> <li>OneDrive</li> <li>Atabaselogins.bat</li> <li>Atabaselogins.sh</li> <li>Music</li> <li>iCloud Drive</li> <li>iCloud Photos</li> <li>data</li> <li>data</li> <li>docs</li>     &lt;</ul>	Database options  Install a new database Upgrade an existing database Server type Oracle Microsoft SQL Server
<ul> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>dbsetup.bat</li> <li>Date modified: 9/30/2014 8:50 AM</li> </ul>	Click
Windows Batch File Size: 1.73 KB	









### Migrate Existing databases to 8.4 Remembering your correct password is key to this screen!

Primavera Database Setup Wizard			
Connection Information	Primavera Database Setup Wiza	rd	
Enter the information required to connect to the database server	Ready to Begin Upg You are now ready to begin upgradi		
Administrative user name       sa         Administrative password       ••••••••         Database host address       DonsSurfacePro\SQLExpre         Database host port       1433         Database name       DEMO	Upgrade?	Yes, upgrade my database	© N
			< Pre-







# Migrate Existing databases to 8.4

### Migration process runs...

Primavera Database Setup Wizard	
Primavera Database Setup Wizard	Primavera Database Setup Wizard
Primavera Database Setup Wizard  Perform core upgrade steps	Primavera Database Setup Wizard Primavera Database Setup Wizard
Perform post upgrade steps	<ul> <li>Perform core upgrade steps</li> <li>Perform post upgrade steps</li> </ul>







# Migrate Existing databases to 8.4

Migration process complete

Primavera Database Setup Wizard	• C
Finish	to
The installation has been completed. Click "Finish" to exit the application, or "Next" to continue with another installation.	ar da
	da da
	• C
	ar
	da
Next > Finish	

### lick "Next" to return migration screen nd migrate another atabase.

lick "Finish" if you re done migrating atabases.





# **Recap of MS-SQL Installation**

MS SQL is a multi-step process

- MS SQL databases provide:
  - Multiple database support
  - No loss of P6 functionality
- MS SQL database setup requires following steps
  - Download and install MS SQL 2012
  - Configure MS SQL Server
  - Create a P6 database
  - Create a P6 Alias to open with P6





### Summary

You have multiple database options

- Oracle SQLite is the easiest to install
  - Some loss of P6 functionality
  - Very easy to copy and send the database
- MS SQL database is a more complex setup
  - No Loss of P6 functionality
  - More difficult to send full database to someone else
- You can continue to use Oracle Express db
  - You need to "migrate" the database to 8.4





### Questions

All questions are gathered into a master sheet, answered and distributed to all registrants as well as posted on our website.

Answers are based on our own experiences using the various software products related to your questions.

# Thank you for participating

Contact – don@drmcnatty.com





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