

FileMaker Server Adv. Deployment

This topic describes the steps to perform when deploying a SyncDeK-enabled database in a FileMaker Server Advanced environment. FileMaker Server Advanced is required because this version of SyncDeK requires external JDBC access to the database.

Select Sync Station

One machine, ideally within the same local area network (LAN) as the FileMaker Server machine, will perform synchronization services for this served copy of the database. This machine can be the same machine as FileMaker Server, or any other machine that will have access to port 2399 on the FileMaker Server box. The machine that performs synchronization services for this copy of the database is referred to hereafter (and elsewhere in SyncDeK documentation) as the Sync Station.

If Version Update Management (VUM) is to be performed for this network, the Sync Station **MUST** be the same machine as the FileMaker Server. This is because SyncDeK must have direct access to the database files in order to be able to open and close them on the server and replace old files with newly received files.

Install SyncDeK Engine On Sync Station

The SyncDeK Engine, a background Java service/daemon, is the middle ground between a hosted database, and the SyncDeK Server that serves as the hub for your Sharing Community.

Either send the SyncDeK installer to an administrator at this node, or instruct them to download the SyncDeK Engine Installer for their platform from:

[SyncDeK 7 Download Site](#)

The Sync Station **should** have a copy of FileMaker Pro/Pro Advanced 8.5 or greater installed on it. Using the same web viewer as used on Single-user nodes is the easiest way to configure your network environment. If FileMaker Pro is installed, then leave the default installation package Single-user Engine selected for installation.

NOTE: If VUM is to be performed at this node, FileMaker Pro/Pro Advanced is required.

Otherwise, Single-user Engine should be de-selected (Windows) and SyncDeK Network Engine should be selected instead. The only difference between these installation packages is that the SyncDeK_TCP plug-in will not be installed when Network Engine is selected.

NOTE: The SyncDeK Engine installer does not install the SyncDeK_TCP plug-into FileMaker Server's Extensions folder. However, if this server will be accessed externally on the web or through ODBC/JDBC interfaces other than by SyncDeK, the plug-in should be manually installed. It can be downloaded from: http://worldsync.com/demo7/sd_tcp_plugin.zip.

Install SyncDeK_Prefs

If the Sync Station is on a different machine than FileMaker Server, then the SyncDeK_prefs should be installed somewhere within the directory structure of the OS Account that will be opened when syncing is being performed, such as Desktop or Documents.

If the Sync Station is the same machine which hosts FileMaker Server, the preferred location to install the SyncDeK_prefs folder is into the same directory as the database files themselves. This would typically be a subfolder within /FileMaker Server/Data/Databases/.

NOTE: If VUM is to be performed in this network, the Sync Station must be on the same machine as FileMaker Server and the SyncDeK_prefs folder must be stored in the same directory as the database files. Additionally, all database files synced according to these SyncDeK_prefs must all reside within a single common directory.

Register Solution On Sync Station - Using FileMaker Pro (Advanced)

Turn on ODBC/JDBC Sharing In FileMaker Server

Use the FileMaker Server Admin Tool to turn on ODBC/JDBC Sharing. Refer to the documentation for your version of FileMaker Server for instructions how to do this.

Host the database files with FileMaker Server

Install the solution database file(s) on the FileMaker Server and open these within Server using the FileMaker Server Admin Tool.

Open database files as a client of FileMaker Server on Sync Station using a limited access account (not Full Access)

Open FileMaker Pro or FileMaker Pro Advanced 8.5 or greater on the Sync Station and select Open Remote... from the File menu. Locate your FileMaker Server and open a database file from your solution that contains either the Full View web viewer or the User web viewer. **Make sure to open the files with an account other than Full Access.**

Navigate to either the User web viewer or Full View web viewer

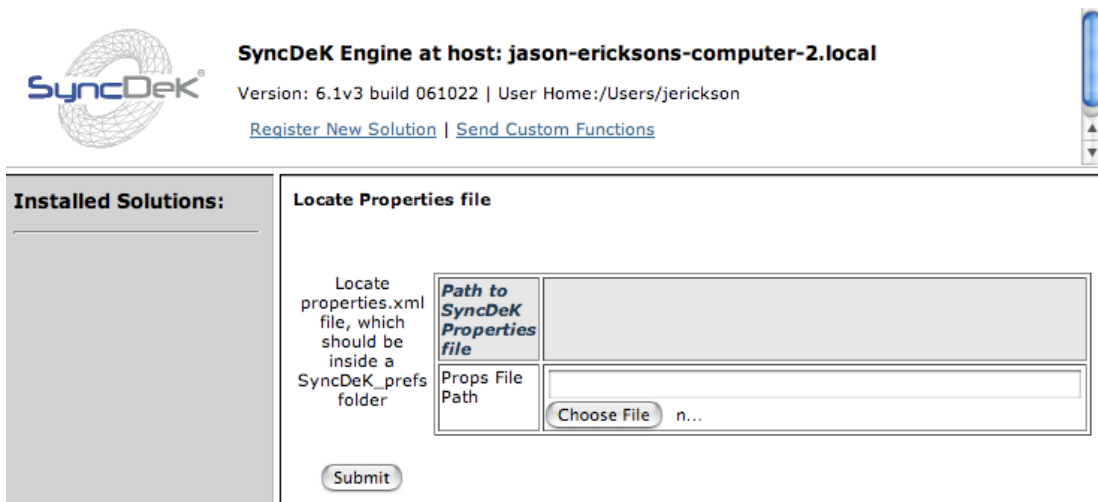
Click link: Sync Solution within web viewer and follow the instructions below (after "Register Solution On Sync Station - Using Web Browser")

Register Solution On Sync Station - Using Web Browser

Register Solution

Open a web browser and go to : <http://localhost:9779> and select the link: Register New Solution. Follow the instructions in the next topic to proceed.

Locate SyncDeK Properties File And Modify Local Settings As Needed



The screenshot shows the SyncDeK Engine web interface. At the top left is the SyncDeK logo. The page title is "SyncDeK Engine at host: jason-ericksons-computer-2.local". Below the title, it says "Version: 6.1v3 build 061022 | User Home: /Users/jerickson". There are two links: "Register New Solution" and "Send Custom Functions".

The main content area is divided into two sections. On the left is "Installed Solutions:" with a greyed-out area below it. On the right is "Locate Properties file".

In the "Locate Properties file" section, there is a text label: "Locate properties.xml file, which should be inside a SyncDeK_prefs folder". Below this is a form with two input fields. The first field is labeled "Path to SyncDeK Properties file" and is currently empty. The second field is labeled "Props File Path" and contains the text "n...". Below the second field is a "Choose File" button. At the bottom of the form is a "Submit" button.

Click "Choose File" and locate the Properties.xml file within the SyncDeK_prefs folder, then select Submit.

Next, the Edit Solution Settings form will be displayed, and should look similar to the below:

Specify the local settings for the solution

Save Settings

Database Login	
DbName	DUMMY_DB
Account	SyncDeK
Password
Database Host	
Host Address	localhost
SyncDeK Logging	
Log Level (1-5)	5
Continuous Syncing	
Continuous Sync	<input type="radio"/> True <input checked="" type="radio"/> False
Wait Time	300
Trigger SyncNow Automatically	<input type="radio"/> True <input checked="" type="radio"/> False
Synchronization Switches	
Sync Switches	<input checked="" type="checkbox"/> Download <input type="checkbox"/> VUM Subscribe <input checked="" type="checkbox"/> Ingest <input checked="" type="checkbox"/> Table Syncing <input checked="" type="checkbox"/> File Publishing (file upload) <input checked="" type="checkbox"/> Upload
Perform Table Publishing	<input checked="" type="radio"/> True <input type="radio"/> False
Perform Table Subscribing	<input checked="" type="radio"/> True <input type="radio"/> False

Modify the DbName field to be the full name of any of the database files in your solution. For instance, *Example_8_5*. If doing this step from within the SyncDeK Web Viewer, the value will already be filled out correctly.

Specify the correct Account, Password and IP/domain name of the File-Maker Server (if not localhost).

If desired (most likely yes), set Continuous Sync to True and specify a number of seconds to wait between sync cycles (at least 300 is recommended). Also, most likely, set Trigger SyncNow Automatically to True so that syncing will begin for this solution immediately whenever the SyncDeK Engine is started, such as at startup.

If necessary, adjust the Sync Switches and Publishing/Subscribing fields to meet the syncing needs at this node (see <http://worldsync.com/Guide/Advanced/SyncSwitches.pdf> for more information).

If Registering From Browser...

Scroll to the bottom of the form, and select the link "Show Additional Fields" then scroll again to the bottom of the form to reveal the following section of fields:

[Hide Additional Fields...](#)

FileMaker Application Settings	
Solution Protocol	fmnet:/
Application Path	Macintosh HD/Applications/FileMaker Pro 8.5 Advanced/FileMaker Pro Advanc
Application Version	ProAdvanced 8.5v1
Application Port	
User Home Directory	SYS.user.home
Additional Solution Address	

Modify Solution Protocol to be "fmnet:/"

Type into Additional Solution Address:

fmnet:/<fms_ip_address>/<dbName>.<extension>

<fms_ip_addresses> should be replaced with the IP address of your File-Maker Server machine.

<dbName> should be replaced with the name of any of the replicated databases in your solution.

<extensions> should be replaced by the file name extension of the specified database, such as .fp7.

Scroll back to the top and click "Save Settings" to complete the registration process.

As message similar to the below should be displayed if the solution was properly registered:

Complete

```
Solution /Library/FileMaker
Server/Data/Databases/.../SyncDeK_prefs/properties.xml registered at
Thu Oct 26 19:55:21 PDT 2006
```

If, instead, the form is returned with information about an error occurring at the top in red letters, refer to the section in this topic for "[What if Problems Occur](#)"

Sync Solution To Trigger "Setup Local Node" form

The navigation pane in the browser will be updated to include an entry pointing to your solution folder. Select this link to reveal a screen similar to the below:

Solution: /Library/FileMaker Server/Data/Databases/serverTest

View: Main Admin

[Edit Local Settings](#)

[Load/Reload Prefs](#) [Sync Solution](#) [Stop Sync](#) [Check Sync Status](#)

Click "Sync Solution" and the following form should be presented:

Either Download or Locate an Account Certificate

Set Up Local Node

Download Account Certificate

Please specify your assigned node name

Node Name	<input type="text"/>
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Submit Node Certificate

Please locate your Account Certificate which should have been issued by your DBA

Account Cert	<input type="text"/>
	<input type="button" value="Choose File"/> n...

If you were issued a Node Certificate file, click Choose File and locate the file and then select "Submit".

Otherwise, type the name of the node assigned to this FileMaker Server and select "Download." This node name should have been specified to you by the database developer that implemented SyncDeK.

If the account submitted/downloaded correctly, a message should be displayed stating: "Account Certificate filed/downloaded." If, instead, the

form is returned with information about an error occurring at the top in red letters, refer to the section in this topic for "[What if Problems Occur.](#)"

Sync Solution (again) To Initialize

You are now ready to sync the solution on this node for the first time. If you selected Continuous Sync above, the solution will continue to sync from now on until/unless you select "Stop Sync." After performing a sync cycle, the status area should display something similar to the following:

```
Last Sync Completed: Thu Oct 26 20:22:09 PDT 2006. Log Summary (see log
for details):
```

```
Total Published Records: 0
```

```
WARNING: 1
```

```
INFO: 15
```

```
PROBLEM SUMMARY:
```

```
-----
```

```
Cannot load user accounts
```

Because users may be making modifications to the database, you may not see "Publishing Records: 0" and the number of "INFO:" entries may be more or less than 7.

The "WARNING: 1" and "PROBLEM SUMMARY: Cannot load user accounts" are normal for the first sync cycle. This error is what causes the Setup Local Node form to be presented. If you select "Stop Sync" and then "Sync Solution" the output should look similar to the below after the first sync:

```
Syncing Status
```

```
SyncDeK continuous sync next scheduled at Thu Oct 26 20:32:54 PDT 2006
```

```
Last Sync Completed: Thu Oct 26 20:27:52 PDT 2006. Log Summary (see log
for details):
```

```
Total Published Records: 0
```

```
INFO: 9
```

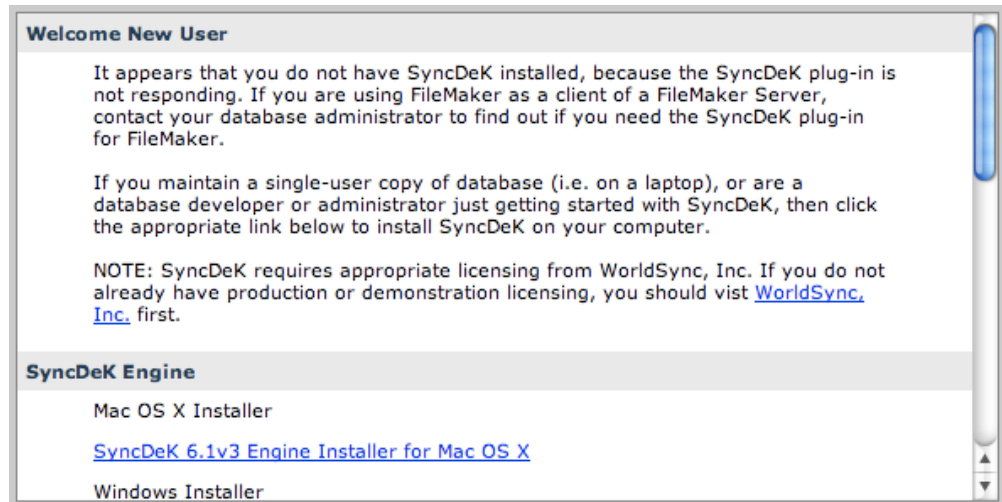
If, more WARNINGS are thrown, or ERROR or SEVERE entries are listed, refer to the section in this topic for "[What if Problems Occur.](#)"

What If Problems Occur

Missing Or Unreadable SyncDeK_prefs

If the user has moved their database away from the SyncDeK_prefs folder which must accompany it, or the folder is damaged or unreadable, errors will be thrown that prevent the User web viewer from presenting the options shown above to begin with. Three likely screens are shown below:

SyncDeK Plug-in Not Installed



The best remedy for this situation is to have the user download and install SyncDeK (perhaps again). One potential cause of the problem during install would be not selecting the correct version of FileMaker. On Macintosh, the user is presented a list of FileMaker versions and simply must select the correct one. On Windows, however, the user is presented with an Open Dialog box that should default to C:\Programs\FileMaker Pro\ and be showing all folders inside this. The user must DOUBLE-CLICK to select one of the FileMaker **application** folders.

SyncDeK Engine Not Running Or Not Installed

Connection Error to SyncDeK Engine

You have the SyncDeK plug-in installed on your machine, but there was a problem connecting to your designated SyncDeK Engine. Either the SyncDeK Engine is not running, isn't properly installed, or you have not sent the correct host address to your SyncDeK plug-in.

If you are user of this database, contact your database administrator for additional support.

If you are the database developer, make sure the SyncDeK Engine is properly installed and running on the correct machine for this environment. The default is on 'localhost' for single user databases, and at the same address as your FileMaker Server for network environments. If this is a network environment, and you are running the SyncDeK Engine on a different machine than the FileMaker Server, you need to use the plug-in function Sync_SetHost ("") at startup.

To download and intall (or re-install) the SyncDeK Engine, [click here](#).

The best remedy for this situation is to have the user download and install SyncDeK (perhaps again). It is possible that the SyncDeK Engine is damaged or was never properly installed, either of which will be resolved by re-installing.

SyncDeK Prefs Folder Not Found

Encountered Error

Missing SyncDeK_prefs folder. Contact your database administrator for help. If you are the solution developer, open the database with full access to see more options.

The most likely cause of the above problem is the user has moved the database to a new location without bringing the SyncDeK_prefs folder with it. Other potential causes could be re-naming the SyncDeK_prefs folder, damage to the folder or permissions problems relative to reading the folder.

Unfortunately, the remedy for this problem may not be simple. Unless the user has simply moved the database, or renamed the folder, it may be necessary to send them a completely new copy of the database and SyncDeK_prefs folder, to ensure their database content matches the Cache folder content, which is maintained in-

side the SyncDeK_prefs folder.

Node Download Or Init Errors

If the Node Name provided is wrong, the user is not online, SyncDeK Server is not online or other communication or configuration errors occur, the form will be presented again and the red letters at the top will indicate the source of the problem. Below is the screen shown if the user provides an invalid Node Name:

