Jedox Suite
Setup Guide

Version 4.0
In this document you will find the installation steps of the setup "Jedox Suite 4.0" on a Windows- and on a Linux operating system. The hardware and software requirements for installing "Jedox Suite" can be found in our document "Jedox Platform Support Guide.pdf". This can be downloaded from our website under the section "Service – Jedox Manuals".

Please note for installations that the version of the front-end (Jedox for Excel or Jedox Web) should be the same as the version of the backend (Jedox OLAP Server)!

**It is not possible to load a database in a previous version that was once loaded in version 4.0!**

**Worksheet-Server 2 is not compatible with Jedox OLAP Server 4.0!**

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1 Windows-Installation Jedox Suite

This document describes the installation of the Jedox Suite 4.0 under a Windows operating system.

**If you have an existing Jedox/Palo version, please note chapter ‘Updates of existing Jedox/Palo versions‘ before starting Setup!**

1.1 Software Requirements

To install and run Jedox Web, you will need a functioning Windows operating (XP/ Vista/ Windows 7/ Windows Server 2003 / 2008 / 2012) and an up-to-date browser (e.g. Firefox 3.6+, MS Internet Explorer 8+). The browser must support JavaScript and AJAX. (For AJAX in IE8 "Native XMLHTTP support" must be enabled).

Jedox Add-In for Excel requires Microsoft Excel itself. Excel version 2003 must be installed with Service Pack 3. For Excel 2007 and 2010, you must first install MS Office VBA components so you can see the Jedox menu.

All further software components required for the operation of Jedox Web will be installed automatically in an easy-to-use setup process.

1.2 Setup

Run then the All-In-One setup file by double-clicking.

The setup will recognize an existing Jedox version 3.3 and the setup will update this installation.

Step 1 - Select the language for installation
Step 2 - Jedox Suite Setup Wizard

Step 3 - License Agreement
Step 4 – Set setup type

Step 4a – If setup has not detected a Jedox Suite installation on the computer:

Step 4b – If setup has detected a Jedox Suite installation on the computer:

Repair / Update display the previously installed components and allows a new selection of components.

Delete uninstalls the existing Jedox/Palo installation and then quits the setup.
The following is the description of an "Advanced Installation". The setup dialog for the default installation of "Jedox for Excel" or "Jedox Web" is shorter in some cases.

Step 5 – Selection of the components

To install the SAP Connectivity module for Jedox, please read our Manual "Jedox_sap_connectivity_33_manual.pdf" before you proceed. This manual can be downloaded from our website.

You can operate Jedox ETL only from the command line if you select Jedox ETL without Jedox Web.

Step 6 – Selection of the destination for the installation
Step 7 – Definition of the user access

Step 8 – Option to disable the Import Wizard and the Modeller for Excel AddIn
Step 9 – Setting other paths

It is also possible to leave the interface fields for Apache server and for OLAP server empty (not the fields of the ports!). Then, the Apache server and the OLAP server will be accessible via all network interfaces.

This possibility exists also for the Tomcat server interface. But we do not recommend to leave it empty as the Tomcat server does not require separate user authentication. Moreover, normally the Tomcat server is only used locally.

Step 10 – Setting interfaces and ports
**Note to occupied port 80:** Anti-virus programs (such as Eset with specific settings) may cause that port 80 is reported as in use to the setup, although it is not in use.

**Note for manually changed ports:** If the last setup of the Jedox/Palo All-In-One included manual changes to ports and config files, these do not get entered into the registry and the All-In-One Setup. In these cases you must stop the Palo services to unblock these ports before proceeding with the actual installation.

If a new installation is performed (no update), then you get another dialog box "Supervision Server Options." When you enable Drillthrough functionality the corresponding files (palo.ini and sep.inc.php) will be adjusted accordingly.

**Step 11**

Consent for the purchase of new update information

**Step 12**

Existing components are removed and then the new installation process begins
Step 13 – Notification: Completing the Jedox Suite installation

After this message, you can start the installed software via "Start - Programs - Jedox Suite - Jedox Web" or via "Start - Programs - Jedox Suite - Jedox for Excel".

Note 1:
Please delete your browser's cache and cookies before you start “Jedox Web”. Not deleted cache may be a reason for display errors.

Note 2:
On Windows operating systems with user control (Vista, Windows 7) is the Jedox OLAP Server Manager only available for the user who has installed Jedox Suite.

Note 3:
If Supervision-Server was installed before, then the Setup will automatically change the in the file "sep.inc.php" included script during update to the "sep.inc.default.php" script, to ensure that a syntactically correct script is used. If you have used a custom script before, you need to re-include it in "sep.inc.php" after the update.
1.3 Data Backup

Generally we recommend a daily backup of your data.

We also recommend that you perform a daily autosave of the Jedox data so that the difference between the data in your Memory/RAM and those on the hard disk will be minimized regularly.

For example you can obtain a daily automatic data storage at 2:00 am with the following entry in the palo.ini:

```
autosave T 02:00
```

A Jedox database can also be copied (saved) without stopping the OLAP server.

But if there is a daily time window without access to the OLAP server, it makes sense to use this time window to stop the server, to copy the databases and thereafter to restart the server.

1.3.1 Backup Jedox Web

In order to secure the Jedox Web files and folders and the settings (data storage / backup), the following backups must be done.

For the OLAP databases and files from the File Manager a synchronized copy must be made of the following folders:

- `<install_path>\storage`
- `<install_path>\olap\data`

Before starting the backup please make sure, that no unsaved changes (e.g. unsaved Jedox spreadsheets, ETL jobs, etc.) are present.

Please choose for the new installation the same storage folder path as in your old installation, otherwise the backups will not work. If your folder "storage" does not have the above noted default path, please choose to install in advanced mode to set the same path.

For files created in the ETL Manager, please backup the following folder:

- `<install_path>\tomcat\webapps\etlserver\data`

Before doing so, stop the PaloSuiteTomcatService service.

1.3.2 Backup Jedox OLAP

Back up all Jedox databases, this means all folders of the directory

- `<install_path>\olap\data`

1.3.3 Backup SVS files

Back up the file "sep.inc.php" in the folder svs and the subfolder "custom_scripts".
1.3.4 Backup of all Jedox Suite data with batch files

On Windows, a backup of all changed data of the Jedox Suite can be easily run with a scheduled task and a batch file. On Linux, we recommend a similar execution of cron jobs.

Content of the batch file (please adapt for older version the corresponding path names):

```bash
@echo off
set Backup_folder=C:\jedox_backup
set Current_backup_folder=%Backup_folder%\backupset0
set Jedox_suite_folder=C:\Program Files (x86)\Jedox\Jedox Suite

if /I "%1" EQU "StopService" goto StopService
if /I "%1" EQU "StartService" goto StartService
if /I "%1" EQU "MaintainBackups" goto MaintainBackups
if /I "%1" EQU "DoBackup" goto DoBackup

:Main
call %0 StopService PaloSuiteHttpdService
call %0 StopService PaloSuiteCoreService
call %0 StopService PaloSuiteTomcatService
call %0 StopService PaloSuiteMolapService
call %0 MaintainBackups
call %0 DoBackup
call %0 StartService PaloSuiteMolapService
call %0 StartService PaloSuiteTomcatService
call %0 StartService PaloSuiteCoreService
call %0 StartService PaloSuiteHttpdService
goto :EOF

:StopService
@echo Stopping %2
net stop %2
:Waiting_stopped
for /F "tokens=3 delims=: " %%H in ('sc query "%2" ^| findstr " STATE") do (  
    if /I "%%H" NEQ "STOPPED" (    
        ping localhost -n 6 > nul    
        goto Waiting_stopped    
    )    
)
goto :EOF

:StartService
@echo Starting %2
net start %2
:Waiting_started
for /F "tokens=3 delims=: " %%H in ('sc query "%2" ^| findstr " STATE") do (  
    if /I "%%H" NEQ "RUNNING" (    
        ping localhost -n 6 > nul    
        goto Waiting_started    
    )    
)
goto :EOF

:MaintainBackups
rmdir /S /Q %Backup_folder%\backupset7
ren %Backup_folder%\backupset7 backupset6
ren %Backup_folder%\backupset6 backupset5
ren %Backup_folder%\backupset5 backupset4
ren %Backup_folder%\backupset4 backupset3
ren %Backup_folder%\backupset3 backupset2
ren %Backup_folder%\backupset2 backupset1
```
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ren %Backup_folder%\backupset0 backupset1
mkdir %Backup_folder%\backupset0
goto :EOF

:DoBackup
del "%Current_backup_folder%\*." /Q
mkdir %Backup_folder%\backupset0\olap_data
mkdir %Backup_folder%\backupset0\storage
mkdir %Backup_folder%\backupset0\etlserver_data
xcopy "%Jedox_suite_folder%\olap\*.*" "%Current_backup_folder%\olap_data /Y /E
xcopy "%Jedox_suite_folder%\storage\*.*" "%Current_backup_folder%\storage /Y /E
xcopy "%Jedox_suite_folder%\tomcat\webapps\etlserver\data\*.*" "%Current_backup_folder%\etlserver_data" /Y /E
xcopy "%Jedox_suite_folder%\svs\*.*" "%Current_backup_folder%\svs_data" /Y /E

1.4 Updates of existing Jedox/Palo versions

Option 1:
Existing Jedox/Palo components are from version 3.3

You must not uninstall these components; they will be updated with the setup program!
Please backup your recent data before starting the Jedox Suite setup (Chapter 1.3). Then you can start the Jedox Suite setup. If you do not change the identified paths and settings during the installation, then the existing databases and the existing settings will be preserved.
In this case it is not necessary to read back your saved data after you have finished the setup!

If you change the paths detected, then the Jedox Suite will be installed newly without assuming the previous data.

Option 2:
Existing Jedox/Palo components are older than version 3.3

It is generally recommended to update Jedox Suite always from one major version to the next major version, and do not skip main update versions (this means par example: it isn’t recommended to update from 3.2 to 4.0).

Please update your data first to the version 3.3.
Further instructions can be found in Jedox Setup Guide 3.3.
1.5 Jedox Web Configuration

1.5.1 Default Configuration

By default, Jedox Web is installed with the following settings:

- The Apache Web server component listens only to the localhost-Interface (127.0.0.1), Port 80.
- The Apache Web Server communicates with the Core Server on port 8194.
- The Jedox OLAP Server listens only to the localhost-interface (127.0.0.1), Port 7777. This port is also used by the Apache Web-Server and the Core Server to store the internal configuration data on the Jedox OLAP Server.
- The Apache Web Server communicates with the Tomcat Server (ETL-Manager, Task-Manager and Jedox Pivot) on Port 8010.
- The admin account has the password "admin" (for both: for Jedox Web as well as for the Jedox OLAP Server).
- The ETL Manager communicates with the ETL Server on port 7775.
- Tomcat Service can use 1024 MB memory maximum by default.

1.5.2 Turn off Password Storage in the Login Browser

By default, password storage is offered in the login browser. If you don't like this, you have to replace 'false' by 'true'in the file...\Jedox Suite\httpd\app\etc\config.php in the following entry:

```php
// enable browser autocompleate for passwords in login screen
define('CFG_DISABLE_AUTOCOMPLETE', false);
```

After changes the service **PaloSuiteHttpdService** must be restarted.

1.5.3 Changing maximum memory for Tomcat Service

The memory consumption of the Tomcat Service is limited by the Maximum heap size: this is the maximum amount of heap memory the Java Virtual Machine (JVM) is allowed to allocate. Especially on a 64-bit system it is convenient to assign more memory than the default 1024 MB.

1. Change value for Max_Memory in file .../tomcat/bin/setenv.bat.
2. Execute .../tomcat/bin/serviceRemove.bat.
   (This stops and removes the Service)
3. Execute .../tomcat/bin/serviceInstall.bat.
   (This installs and starts the Service)
1.5.4 Accessing Jedox Web UI from different Client Machines

By default, the Jedox Suite Setup installs Jedox Web on the same computer as the various other Palo services and the Jedox OLAP server itself.

If you want to operate with the Jedox Web User Interface (Client) on a Jedox Web installation on another machine (Server), then following changes are required on the server machine:

Please change in the file httpd.conf of the folder C:\Program Files\Jedox\Jedox Suite \httpd\conf

the lines
Listen 127.0.0.1:80
#Listen 0.0.0.0:80
to
#Listen 127.0.0.1:80
Listen 0.0.0.0:80

Important: The Apache service always needs to listen to the localhost Interface for Jedox Web to work properly.

After making changes in the file httpd.conf, you must restart the "PaloSuiteHttpdService" service on the server.

Please turn off the firewall on the server machine for the ports you are using (for example 8081) or make sure requests on the specified port are allowed to pass thru the Firewall.

After making these changes, the address http://[IP-Address of the server]:80/ui/login/ can be reached from any client machine.

If you want to change the Web-Server Port (currently 80), you must make to do the following changes:

1. Update the port in all entries "Listen..." in the file httpd.conf.

2. If the port was changed for the 127.0.0.1 interface-entry in the file httpd.conf, then you must update the new port setting in the file ...\httpd\app\etc\config.php the entry "define('CFG_UB_PORT', 80)"

Note:
When defining various listen-interfaces, the ports of those do not need to match. You could define another port (SSL e.g.) for external interfaces, but the port for the 127.0.0.1 interface always needs to match the UB_PORT in the file config.php.

Make sure your Firewall(s) allow sure requests to pass on the defined ports.
1.5.5 Accessing the Jedox OLAP Server from different Client Machines

It may also be necessary for users to access the Jedox OLAP Server component of Jedox Web from Excel-Clients on different machines. In this case, you must update the palo.ini, and make other changes to configuration files.

1. Changes in the file `\olap\data\palo.ini`:
   - Change the entry http 127.0.0.1 7777 to either http `""` 7777 or http `<SERVER-IP>` 7777.

2. If you enter a static IP other than 127.0.0.1, you also need to change other configuration files:
   - In `\httpd\app\etc\config.php`, the entry `define('CFG_PALO_HOST', '127.0.0.1')` needs to be changed to the Server-IP used in palo.ini.
   - In `\core2\palo_config.xml`, the entry `<host name="127.0.0.1" />` needs to be changed to the Server-IP used in palo.ini.

3. Changing the Jedox OLAP Server port:
   - Change the port entry `http 127.0.0.1 7777` to the new port.
   - This change must also be made in `\httpd\app\etc\config.php` for the entry `define("CFG_PALO_PORT", '7777');` and in `\core2\palo_config.xml` for the entry `<port name="7777" />

4. The Palo services need to be restarted after making these changes in order to apply these settings.

1.5.6 Enabling worker usage

First: Please note that the worker mode is currently in experimental state.

As of version 3.3 of Jedox you can activate worker usage. This means that, for each user who logs on at the server, a separate process will be started. Should a problem occur within a worker process, then this affects only this one process and the other worker processes are not affected. Additionally, you can set a memory quota. This is the maximum amount of server memory which each worker process is allowed to use. When a user performs actions that exceed this limit in the sum, then his worker process will be terminated. To avoid that this happens suddenly, a threshold in percent can additionally be defined. If the user's worker process exceeds this threshold, no further activity is allowed and his currently opened and modified workbooks will be automatically saved.

**Important:** If a user performs an action that suddenly requires a big amount of memory and the memory limit is abruptly exceeded, then his worker process will be terminated without saving. Then the preventive measures in the case of exceeding the threshold cannot be triggered.

Worker usage is configured in the file `\Jedox\Jedox Suite\core\config.xml`.

There you will find the default entry without worker usage:

```xml
<worker_process enabled="false" memory_quota="0" memory_quota_threshold="75" />
```

Example entry for worker usage with a server memory limit of 200 MB and a threshold of 75% (150MB):

```xml
<worker_process enabled="worker" memory_quota="200" memory_quota_threshold="75">
</worker_process>
```

As for logging, to see log messages, you need to add a separate logger definition within the `<logging>` tag in config.xml, of this form:

```xml
<logger name="socket" level="info"/>
```
1.5.7 Changing the UI Backend port

The UI Backend is the interface between the Apache Web Server (UI component) and the Core server. Please note that this is an internal connection that normally shouldn't be changed.

The UI Side is changed in the file `...\httpd\conf\httpd.conf`, at the two entries

- ProxyPass /ub/ ajp://127.0.0.1:8194/ min=2 disablereuse=on retry=0
- ProxyPassReverse /ub/ ajp://127.0.0.1:8194/.

The Core side is changed in the file `...\core2\ui_backend_config.xml` at the entry

- `<tcp address="127.0.0.1" port="8194"/>

1.5.8 Additional Core-Configuration

The most important configuration options for the Jedox Web-Core Server are defined in the file `...\core\config.xml`.

These are:

- `<logger name="file" level="error" target=".../log/core.log" module=""/>
  Here you can define, where the Log-File of the core is written to and which Log-Level is used. Available log-levels are critical, error, warning, notice, info and debug.

- `<session><timeout seconds="300"/>
  Here you can define the time (seconds) after which an orphaned user session will be closed (this is a sessions with no logout, but browser window was closed).

- `<autosave> <interval seconds="900"/>
  Here you can define the intervals at which the core creates a copy of the currently opened and modified Jedox spreadsheets (Designer mode only).

- `<view_independent_calculation scope="worksheet">
  Possible options: worksheet, workbook, application.
  Normally formulas are only calculated for the visible area (plus dependent ones).
  Till 3.3, the formulas are only calculated for the current sheet. Starting with Version 4.0, an extension of the calculation range can be set. But an extension should be made only when this is necessary, because the performance will decrease.
  With the entry "worksheet" (default entry) the calculations are limited on the previous formulas in the current worksheet.
  With the entry "workbook" the calculations are limited on the previous formulas in the current file.
  With the entry "application" all previous formulas are calculated in all opened files of the current Jedox session.
1.5.9 Jedox ETL Configuration

Connection of UI (Jedox Web) to the ETL Web-Client: Jedox Web forwards requests to ETL (specifically, to the Tomcat Server containing ETL) using the AJP protocol.

The ETL-Side port for this connection is defined in ...
tomcat\conf\server.xml
at the entry <Connector port="8010" protocol="AJP/1.3" redirectPort="8444" />.
The first "port" entry is the important one. It is usually not necessary to change it.

If you change this entry, then you must also make this change in the file ...
httpd\conf\httpd.conf the following changes:

- update of all port-entries in the section ### ETL
- update of all port-entries in the section ### Palo Pivot (because Tomcat also handles Palo Pivot)

The PaloSuiteHttpdService and PaloSuiteTomcatService have to be restarted for these changes to take effect.

The internal communication of the "ETL Manager"-Client with the ETL Server takes place on port 7775. This port normally doesn't need to be changed.

If you do need to change it, there are two files to edit:

1. Change the port in ...
tomcat\conf\server.xml
   in the entry <Connector port="7775" address="127.0.0.1" connectionTimeout="20000"
   protocol="HTTP/1.1" redirectPort="7743" />

2. Change the port in ...
tomcat\webapps\web-etr\WEB-INF\classes\webetl.properties

The PaloSuiteTomcatService must be restarted for these changes to take effect.

1.5.10 Jedox Pivot Configuration

Jedox Pivot runs as a component of the Tomcat Server. As described above in the ETL section, the port which connects Jedox Pivot with the UI is configured in ...
tomcat\conf\server.xml

A second important configuration option is the path to the Apache's config.php file. Jedox Pivot needs to read this file to decode the links with which Jedox Web opens Pivot items. This path is configured in the file ...
tomcat\webapps\web-palo-ng\WEB-INF\classes\wpalo.properties.

Here, the entry to note is paloSuiteConfigPath=../../../httpd/app/etc/config.php. This is a relative path by default. It is obtained from the %CATALINA_HOME% variable which the Tomcat Server uses.

If there are problems opening Pivots (blank screen), you can check in the log file ...
tomcat\logs\stdout_DATE.log for an error about reading said file. Perhaps you can avoid such an error by entering an absolute path in the file wpalo.properties (The Tomcat Server needs to be restarted afterwards).
1.6 Silent Setup for automated software distribution

For automatic setup repetition, you can record the setup execution e.g. with this the following command:

C:\Downloads\Jedox_Suite_version.exe /SAVEINF="C:\config.inf"

For a proper recording you have to run setup in mode “Advanced”.
Please use absolute paths for the recording and subsequent silent setup call.

Each Jedox setup version needs a new record of the setup execution.

Please order at Jedox Sales or at support@jedox.com a license for the silent setup and add after receiving the following lines in the file config.inf:

```
[License]
Client=your name
Company=your company
Expires=1199055600
Key=5E88-7CF8-48B4-A015
```

Please note: Required software like .NET framework, Java etc. which would normally be downloaded and installed by the Setup, has to be installed before running a silent setup.

You can run a silent setup with the recorded settings with this command:

C:\Downloads\Jedox_Suite_version.exe /LOADINF="C:\config.inf" /VERYSILENT

Config.inf entries (example):

```
[custom]
AllUsers=True
paloforwebInstall=true
paloforexcelInstall=true
AdvancedMode=True
chosenOLAPM=false
chosenODBO=false
chosenSVS=false
chosenSAP=false
chosenETL=false
chosenPaloWeb=false
chosenExcelAddin=true
chosenOOCalc=false
chosenSandbox=false
chosenUpdates=false
apacheSecret=5a18d4d161d0cd79
customInstall=true
chosenPaloSuiteLog=C:\Program Files (x86)\Jedox\Jedox Suite\log

[Setup]
Lang=en
Dir=C:\Program Files (x86)\Jedox\Jedox Suite
Group=Jedox
NoIcons=0
Tasks=

[License]
Client=Jedox
Company=Jedox
Expires=1143583600
Key=6B93-9D88-2X09-W1KA
```
2 Linux-Installation Jedox Suite

This section describes the installation of the Jedox Suite 4.0 under a Linux operating system. The steps for a 64-bit system are initially the same as for a 32-bit system: These are described in the chapters 2.1 and 2.2. For a 64-bit system, then please do additionally the steps in chapter 2.3.

2.1 Software Requirements

To install and run Jedox Web, you will need a functioning Linux operating system (Red Hat EL 6 / CentOS 6, SUSE LE 11 SP1, Open Suse 12, Debian 6.0.3, Ubuntu 10.04 LTS) with Kernel 2.6.32 or higher and an up-to-date browser (e.g. Firefox 3.6+). The browser must support JavaScript and AJAX.

Furthermore, the Oracle Java Runtime Environment Version 6 Update 31 (or higher) must be installed in order to run ETL Server, ETL Web Client, Jedox Analyzer and Scheduler component.

To install and to start Jedox Web on Linux you need root rights and it must be present a group with the ID 1001 and a user with the ID 1001. The user with the ID 1001 needs no login permission.

2.2 Steps of the installation

Please download the software Jedox Suite for the Linux operating system.

After unzipping you get

  install.sh  jedox_ps.tar.gz  jedox.lic  components.txt

2.2.1 New installation (with deletion of any existing installation)

The default installation directory is ./opt/jedox/ps. Please delete this if it already exists.

Then run install.sh in a "bash" shell (other shells, such as "dash", are not supported):

  ./install.sh

During installation, you will be prompted for a few questions, such as in which directory and for which user to install. Please answer these question as suits your needs.

The trial license file jedox.lic, which is included in the download, is automatically copied during installation to the relevant directory (<INSTALL_PATH>/Data)

After the installation has finished, you can start Jedox Suite with the command:

  <INSTALL_PATH>/startserver.sh

For details on Starting and Stopping the Suite, please see chapter 2.5.

Please delete your browser's cache and cookies.

Then you can call Jedox Web in your browser with http://127.0.0.1.
2.2.2 Installation update
(with data copying of existing data and settings)

This description applies to updates from the version 3.3 to version 4.0:

1.) Stop Jedox Suite:
   
   ```
   cd /opt/jedox/ps
   ./stopserver.sh
   ```

2.) Create a copy of the existing installation folder (backup):
   
   ```
   cp -R /opt/jedox/ps /opt/jedox/ps_copy
   ```

3.) Installation:
   Execute install.sh in a "bash" shell (other shells, such as "dash", are not supported):
   
   ```
   ./install.sh
   ```

   Use the existing ps directory as installation directory.

   Follow the instructions.
   Setup will prompt you for several existing data directories (Olap, Jedox Web and ETL Server),
   asking you whether you want to keep existing data or replace it with new data.
   If you chose to replace, your existing data will be lost for the respective directory.
   For Supervision Server, a new folder with sample scripts (called "sample_scripts") will be created.
   Sep.inc.php will be modified to point to the default script in the new sample directory.
   If you had used a custom script, you need to re-add it after setup has finished.

4.) Restoring of desired data (Stop before Jedox Suite):

   As described above, most data is kept in place when running an update installation.
   If you manually need to replace content, you can do as follows:

   Example: `cp -R < source > < target >`

   For the Jedox configuration file, the command is as follows:
   `cp -R opt/jedox/ps_copy/Data/palo.ini /opt/jedox/ps/Data/`

   For the other files the paths are listed below. These you can use for the copy command:

   Configuration files):
   `/opt/jedox/ps/Data/palo.ini`
   `/opt/jedox/ps/etc/httpd/conf/httpd.conf`
   `/opt/jedox/ps/tomcat/conf/server.xml`
   `/opt/jedox/ps/htdocs/app/etc/config.php`
   `/opt/jedox/ps/core-Linux-i686/etc/config.xml`
   `/opt/jedox/ps/tomcat/webapps/etlserver/config/config.xml`
   `/opt/jedox/ps/core-Linux-i686/etc/palo_config.xml`
   `/opt/jedox/ps/etc/php.ini`
   `/opt/jedox/ps/svs-Linux-i686/php.ini`

   More paths can be found in Section 2.4

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1) Please note: Setup either modifies existing configuration files on update (such as palo.ini), or replaces
existing ones with new ones. The replace operations are necessary because of larger changes in the
configuration. If you had modified configuration files in your previous installation, it is recommended not to
copy the files from the previous version’s backup, but instead to apply your changes to the new files.
2.3 Additional steps on a 64-Bit System

Please download the software „Jedox OLAP 64 Bit Linux Pack“. This can be found under "More Downloads".

After unzipping you get

install64.sh  
jedox_addon.tar.gz  
components.txt

Then run install64.sh and select the options you want.

This installation replaces the 32-bit version files with 64-bit version files of the existing installation.

2.4 Data backup

Generally we recommend a daily backup of your data.

We also recommend that you perform a daily autosave of the Jedox data so that the difference between the data in your Memory/RAM and those on the hard disk will be minimized regularly.

For example you can obtain a daily automatic data storage at 2:00 am with the following entry in the palo.ini:

autosave T 02:00

A Jedox database can also be copied (saved) without stopping the OLAP server.

But if there is a daily time window without access to the OLAP server, it makes sense to use this time window to stop the server, to copy the databases and thereafter to restart the server.

With appropriate path adjustments the detailed descriptions of the backups on Windows systems (sections 1.3.1 to 1.3.4) are also true for backups on Linux systems.

2.5 Linux Start / Stop Scripts

In version 4.0, the mechanisms for starting and stopping the Jedox Suite on Linux have been changed. The scripts startserver.sh and stopserver.sh are still in place, and still work as expected; they start / stop all services (processes) of Jedox Suite. On update installations, the existing versions of these scripts will be overwritten.

However, internally these scripts now just call the new main script, which is called jedox-suite.sh (located directly in the installation directory).

This script is called with certain parameters:

- “command” specifies what the user wants to do (start, restart, or stop).
- “options” that modify implicit behavior of the script itself (--no-deps, --umount, and --no-umount).
- one or more “targets”, that specify which components are to be started (any combination of olap, httpd, core, and tomcat).

"command" is a required argument, the others are optional. When started with only a command, the script applies this command to all Jedox Suite components.

For example:

./jedox-suite.sh start

By default start all components of Jedox Suite.
```
./jedox-suite.sh stop core httpd
```

Stops the “core” and “httpd” components of Jedox Web.

```
./jedox-suite.sh restart --no-deps olap
```

Restarts the OLAP component, while not restarting its dependent components (tomcat).

The processes, once running, are accessed - for example, to stop them - by the script via their “Process ID”, not via the process name. Process ID’s are saved as files in `<Jedox Suite>/var/run` and `<Jedox Suite>/tomcat` respectively.

Be aware that the `jedox-suite.sh` script and the `<Jedox Suite>/tomcat/jedox_tomcat.sh` script now both contain an INSTALL_PATH variable with the location of your Jedox Suite jail. This makes it possible to create symlinks to those scripts and call them from wherever you want. Combined with the Debian-, CentOS- and SuSE-compatible init.d comment headers that are contained in these files it is now possible to integrate the jedox-suite into the system’s startup and shutdown process.

The `jedox-suite.sh` automatically tries to bind-mount “/dev”, “/proc” and “/sys” into the jail in order to make tools like `netstat` (used for olap server startup) work in the chroot environment. These mounts are automatically unmounted when “./jedox-suite.sh stop” (without any further parameters) is issued.

You can enforce unmounting these directories using the `--umount` option and forbid unmounting using `-no-umount`.

Also the olap start and stop handling have been changed.

Beginning with 4.0 starting the OLAP service means launching the process and waiting for it to completely start up and start listening on a configured port (this may take a very long time when huge cubes are being upgraded to the 4.0 cube-storage-format) instead of simply assuming it is up after waiting a couple of seconds.

Same applies to the OLAP service shutdown: The script waits for the shutdown to complete even if this would mean to wait for an hour or longer. This new default behavior can be changed by editing `<Jedox Suite>/etc/rc.d/init.d/jedox_olap` and changing the variables OLAP_START_TIMEOUT and OLAP_STOP_TIMEOUT.

Timeouts may also be configured for the Jedox core service in `<Jedox Suite>/etc/rc.d/init.d/jedox_core` and the Jedox tomcat service in `<Jedox Suite>/tomcat/jedox_tomcat.sh`.
3 Windows-Installation Jedox for OpenOffice

3.1 Software Requirements
To install Jedox for OpenOffice you will need a functioning Windows operating system (Windows XP/Server2003/Server2008) and an OpenOffice Version 3.1 or higher.

3.2 Installation steps
Unzip the download of Jedox for Open Office, the file PalOOCa.zip. Run for the server installation file Jedox Server_xxxx.exe.

Then start OpenOffice.org Calc and select under Tools the Extension Manager. Click the Add button and select the file PalOOCa.oxt. Close and restart the OpenOffice.org Calc program. In the menu bar you can now find the pull-down menu Jedox.