**TIBCO API Exchange Gateway Configuration**

1. **Configuring Apache HTTP Server**

|  |  |
| --- | --- |
|  | 1. Open the *APACHE\_HOME/conf/***httpd.conf** file for editing. |
|  | 1. Add the following line in the file: |

Include *ASG\_HOME*/modules/http\_server/apache/mod\_ASG.conf

|  |  |
| --- | --- |
|  | 1. Modify the listening port, as required: |

Listen 1050

|  |  |
| --- | --- |
|  | 1. Set the environment variables, as required |

1. **Setting the environmental variables**

a) For Windows platform, verify that the PATH system variable includes RV\_HOME/bin, where RV\_HOME specifies the directory, where, TIBCO Rendezvous product is installed or update accordingly.

b) For Linux/Unix platform, ensure that the following environment variables are set correctly. Depending on the type of shell, it may require to use different commands to set these variables.

RV\_HOME: Verify that this variable is set to the directory where TIBCO Rendezvous software is installed. If not, set it as follows:

export RV\_HOME=directory where the TIBCO Rendezvous product is installed.

PATH: Verify that this variable includes $RV\_HOME/bin. If not, set it as follows:

export PATH=$RV\_HOME/bin:$PATH

LD\_LIBRARY\_PATH: Verify that this variable includes $RV\_HOME/lib. If not, set it as follows:

export LD\_LIBRARY\_PATH=$RV\_HOME/lib/64:$RV\_HOME/lib:$LD\_LIBRARY\_PATH

If the EMS channel is going to be used with TIBCO API Exchange Gateway software, perform the following:

Verify that the property tibco.env.EMS\_HOME is set to the TIBCO Enterprise Message Service installation home. This property is defined in the ASG\_HOME/bin/asg-engine.tra file.

For example, tibco.env.EMS\_HOME=/home/asg/tibco/ems/5.1

Copy the jms.jar and tibjms.jar files from TIBCO Enterprise Message Service installation (EMS\_HOME/lib) to ASG\_HOME/lib/ext/tpcl

1. **Enabling EMS channel**
2. Update asg\_core.cdd file to enable EMS channel.

<property name="be.channel.deactivate" value="/DefaultImplementation/Channels/SouthboundEsb0Channel,/DefaultImplementation/Channels/SouthboundEsb1Channel,/DefaultImplementation/Channels/SouthboundEsb2Channel,/DefaultImplementation/Channels/North\_ESBChannel, ,/ASG/Channels/SOAPJMSChannel\_North,/ASG/Channels/SOAPJMSChannel\_South,/ASG/Channels/modAS\_Channel,/Common/Channel/PSMChannel,/Common/Channel/CentralLoggerJMS"/>

1. Update asg.properties file with JMS connection details.
2. Restart the core engine.

**TIBCO API Exchange Manager & Portal Configuration**

**1) Configuring Apache HTTP Server to use PHP**

a) Go to the /opt/products/apache2/conf/ directory.

b) Edit the httpd.conf file. For example: vi /opt/products/apache2/conf/httpd.conf

c) Make sure that there is a LoadModule statement to load the php5 module LoadModule php5\_module modules/libphp5.so

d) Go to the end of the file and add the following PHP configuration information:

# PHP related configuration - Begin

<FilesMatch \.php$>

SetHandler application/x-httpd-php

</FilesMatch>

<FilesMatch "\.php$>

SetHandler application/x-httpd-php-source

</FilesMatch>

RewriteEngine On

RewriteRule (.\*\php)s$ $1 [H=application/x-httpd-php-source]

# PHP related configuraton - End

e) Make sure that the following lines are uncommented to ensure the following modules are loaded (the PHP installation will have already enabled the ph5\_module to be loaded).

LoadModule slotmem\_shm\_module modules/mod\_slotmem\_shm.so

LoadModule rewrite\_module modules/mod\_rewrite.so

LoadModule proxy\_module modules/mod\_proxy.so

LoadModule proxy\_connect\_module modules/mod\_proxy\_connect.so

LoadModule proxy\_http\_module modules/mod\_proxy\_http.so

f) Add the following lines:

# Add API Exchange related proxy info - Begin

ProxyPass /apiKey http://$host:9122/apiKey

ProxyPassReverse /apiKey http://$host:9122/apiKey

ProxyPass /portalEvent http://$host:9122/portalEvent

ProxyPassReverse /portalEvent http://$host:9122/portalEvent

ProxyPass /asg/ http://$host:9122/asg/

ProxyPassReverse /asg/ http://$host:9122/asg/

ProxyPass /ConfigUI http://$host:9200/ConfigUI

ProxyPassReverse /ConfigUI http://$host:9200/ConfigUI

# Add API Exchange related proxy info - End

g) Save the httpd.conf file.

**2) Validate PHP**

a) Go to the /opt/products/apache2/htdocs directory.

b) Enter the following commands to edit the phpinfo.php file:

mkdir info

cd info

vi phpinfo.php

c) Add the following lines:

<?php

phpinfo();

?>

d) Save the phpinfo.php file and exit the editor.

e) Restart the Apache server.

f) Access http://host/ to obtain a valid response from Apache.

g) Access http://<host>/info/phpinfo.php to view information about PHP, Apache, and MySQL.

**3) Configure PHPMYADMIN**

a) Copy the phpmyadmin folder to the htdocs under apache.

b) Restart the apache.

c) Go to the following url

http://host:port/phpMyAdmin

d) Enter mysql credential to get access.

**4) Adapter configuration**

a) Get the distribution zip file and extract. The extract will show two folders.

adapter

joomla

b) Copy the joomla folder content to the apache htdocs folder.

c) Copy the adapter/joomla folder contents to apache htdocs folder.

d) Restart apache server.

**5) Database creation and configuration for Portal**

a) Log in to MySQL:

mysql –u root –p

You are prompted for the MySQL password.

b) Enter the MySQL password.

c) Enter the following command:

CREATE DATABASE asg\_openapi DEFAULT CHARACTER SET utf8 COLLATE utf8\_general\_ci;

d) Import the scripts from the directory where you unzipped the joomla adapter zip file (TIB\_api-exchange-joomla-adapter\_2.0.0/adapter/sql-scripts/asg\_openapi.sql) into the asg\_openapi database.

e) Connect to MySQL.

f) At the MySQL prompt, enter:

use asg\_openapi

g) Run the source <tmp-directory>/adapter/sqlscripts/asg\_openapi.sql script

**The same script can be run from phpMyAdmin also.**

**6) Adding proxies in the httpd.conf file**

a) Add the following lines to the httpd.conf file

ProxyPass /apiKey http://<host>:9122/apiKey

ProxyPassReverse /apiKey http://<host>:9122/apiKey

ProxyPass/portalEvent http://<host>:9122/portalEvent

ProxyPassReverse /portalEvent http://<host>:9122/portalEvent

ProxyPass /asg/internal/product|http://<host>:9122/asg/internal/product

ProxyPassReverse /asg/internal/product http://<host>:9122/asg/internal/product

ProxyPass /ConfigUI http://<host>:9200/ConfigUI ProxyPassreverse /ConfigUI http://<host>:<port>:9200/ConfigUI

#Oauth related proxy

ProxyPass /oauthClient/ http://<host>:9122/oauthClient/

ProxyPassReverse /oauthClient/ http://<host>:9122/oauthClient/

ProxyPass /asg/oauth2/ http://<host>:9322/asg/oauth2/

ProxyPassReverse /asg/oauth2/ http://<host>:9322/asg/oauth2/

#Analytics related proxy

ProxyPass /Analytics http://<host>:9122/SpotfireWeb

ProxyPassReverse /Analytics http://<host>:9122/SpotfireWeb

ProxyPass /SpotfireWeb http://<host>:9122/SpotfireWeb

ProxyPassReverse /SpotfireWeb http://<host>:9122/SpotfireWeb

b) Uncomment LoadModule Items in the httpd.conf file

LoadModule proxy\_module modules/mod\_proxy.so

LoadModule proxy\_connect\_module modules/mod\_proxy\_connect.so

LoadModule proxy\_http\_module modules/mod\_proxy\_http.so

c) Restart apache

**7) Joomla configuration**

a) Verify if apache and mysql is up and running, if not start them

b) To access Joomla, go to the following URL:

http://<hostname>.<port>

The main Joomla screen appears



For the first time, the page will give an instruction for the initial setup.

c) Enter the following information:

Site Name : Enter the site name for the portal.

Admin email : Enter the email for the site administrator

Admin Password : Enter the admin password, and then confirm it in the

Confirm Admin Password field.

d) Scroll down to the Database configuration area.

e) In the Database Type field, from the pull-down list, choose MySql.

f) In the Host Name field, enter localhost.

g) Enter a username and password for the database user.

h) In the Database Name field, enter asg\_openapi.

I) Make sure that the value in the Table Prefix field is openapi\_ .

j) Click Next.

k) Review the information on the Finalization window.

l) Click the Remove installation folder button.

The installation is now complete.

**8) Verify Joomla configuration**

a) Access the API management portal landing page at

http://<hostaname>.<port>

b) Access the Joomla! Administrator user interface at

http://hostname>.<port>/administrator and validate that Joomla can write to all directories.



**9) Installing cobalt package**

a) Log into the Joomla Administrator utility as administrator.

b) From the submenu at the left of the start window, choose Install Extensions.

The Upload Package window appears.



c) Click Choose File.

d) Browse to the directory where you unzipped the

TIB\_api-exchange-joomla-adapter\_2.1.0.zip file and select the Cobalt packages.

e) Choose the pkg\_cobalt.j3.everything.v.8.359\_patch02 file and then click Upload & Install.

The package installs and a message appears indicating that the installation was successful.

f) From the Upload Package window, repeat steps 3-4, choose the pkg\_cobalt.j3.media.v.8.70.zip file, and click Upload & Install.

The package installs and a message appears indicating that the installation was successful.

**10) ConfigUI for the API Manager Configuration**

a) Login to the Joomla administrator,

b) Go to http://</administrator>System>GlobalConfiguration>API Manager Configuration and specify the following URL in the ConfigUI field: http://<host>:9200

**11) Verify the Portal Configuration**

a) Go to the URL where the portal is installed, for example:

http://<hostname>.<port>

b) Verify that you see the Getting Started window. This window should be similar to the following:

