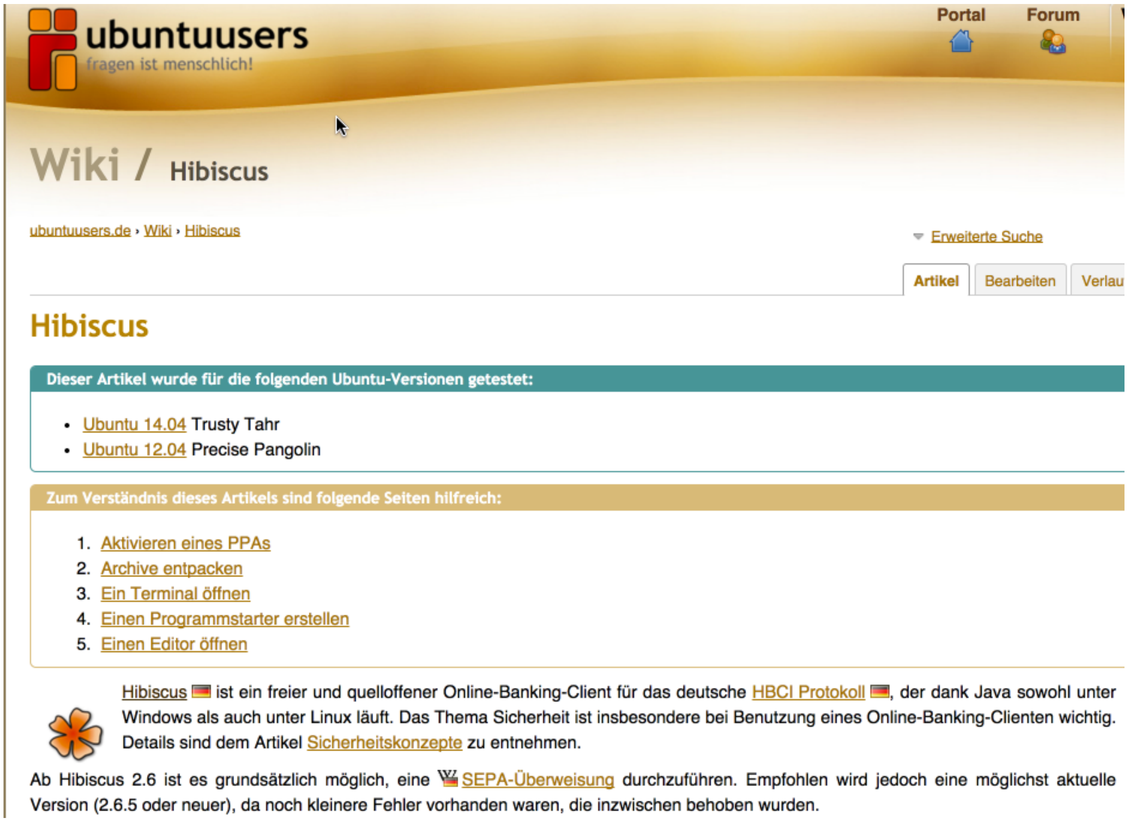
Odoo HBCI Banking Server-Public

Odoo HBCI Banking Server-Public

Installation of HBCI Payment Server

Installation Sources

External sources for Hibiscus Payment Server (HBCI)



Hibiscus

Dieser Artikel wurde für die folgenden Ubuntu-Versionen getestet:

- Ubuntu 14.04 Trusty Tahr
- Ubuntu 12.04 Precise Pangolin

Zum Verständnis dieses Artikels sind folgende Seiten hilfreich:

1. Aktivieren eines PPAs
2. Archive entpacken
3. Ein Terminal öffnen
4. Einen Programmstarter erstellen
5. Einen Editor öffnen

Hibiscus ist ein freier und quelloffener Online-Banking-Client für das deutsche HBCI Protokoll, der dank Java sowohl unter Windows als auch unter Linux läuft. Das Thema Sicherheit ist insbesondere bei Benutzung eines Online-Banking-Clienten wichtig. Details sind dem Artikel Sicherheitskonzepte zu entnehmen.

Ab Hibiscus 2.6 ist es grundsätzlich möglich, eine SEPA-Überweisung durchzuführen. Empfohlen wird jedoch eine möglichst aktuelle Version (2.6.5 oder neuer), da noch kleinere Fehler vorhanden waren, die inzwischen behoben wurden.

Step-by-Step description

External info: http://wiki.ubuntuusers.de/Hibiscus,
http://www.willuhn.de/products/hibiscus-server/install.php
Our virtualisation environment is OpenVZ.

Setup an Ubuntu-12.04-Container in the Proxmox Cluster (1CPU/1GB RAM/10GB HDD)

Edit /etc/apt/sources.list:

```
deb http://de.archive.ubuntu.com/ubuntu/ lucid main universe multiverse partner
deb http://de.archive.ubuntu.com/ubuntu/ lucid-security main universe multiverse partner
```

Install dependencies

```
sudo apt-get install openjdk-7-jdk
sudo apt-get install mysql-server
```

write down the mysql root password

Download hibiscus-server-Zipfile
(http://www.willuhn.de/products/hibiscus-server/download.php):

```
cd /opt
sudo wget http://www.willuhn.de/products/hibiscus-server/releases/hibiscus-server-2.6.9.zip
```

if no unzip

```
sudo apt-get install unzip
```

Unzip hibiscus server

```
sudo unzip hibiscus-server-2.6.9.zip
```

Create a linux user:

```
sudo adduser hibiscus
```

write down the hibiscus user password

Create a hibiscus mysql user and create database hibiscus:

```
mysql -u root -p
```

write down the hibiscus user password

```
CREATE USER ‘hibiscus’@’localhost’ IDENTIFIED BY ‘hibiscus_user_password’;

CREATE DATABASE hibiscus;
GRANT ALL PRIVILEGES ON  hibiscus.* TO hibiscus@localhost;
exit
```

set the correct password in
/opt/hibiscus-server/cfg/de.willuhn.jameica.hbci.rmi.HBCIDBService.properties:

```
database.driver=de.willuhn.jameica.hbci.server.DBSupportMySqlImpl
database.driver.mysql.jdbcurl=jdbc\:mysql\://localhost\:3306/hibiscus?useUnicode\=Yes&characterE
database.driver.mysql.username=hibiscus
database.driver.mysql.password=ee0dqkxVVSS1tb7VpZGw
```

Initialize database:

```
mysql -u hibiscus -p -D hibiscus -h localhost <
/opt/hibiscus-server/plugins/hibiscus/sql/mysql-create.sql
```

Start hibiscus:

```
/opt/hibiscus-server/jameicaserver.sh -p dase3dawdwe
```

To **permanently start hibiscus on boot**, add following to /etc/rc.local before “exit 0”:

```
/opt/hibiscus-server/jameicaserver.sh -p hgvVF9fx
```

Login Data for the Payment Server

https://xxx.xxx.xxx.xxx:8080/hibiscus/

my-sql root password:
xxxxx

hibiscus admin password
xxxx

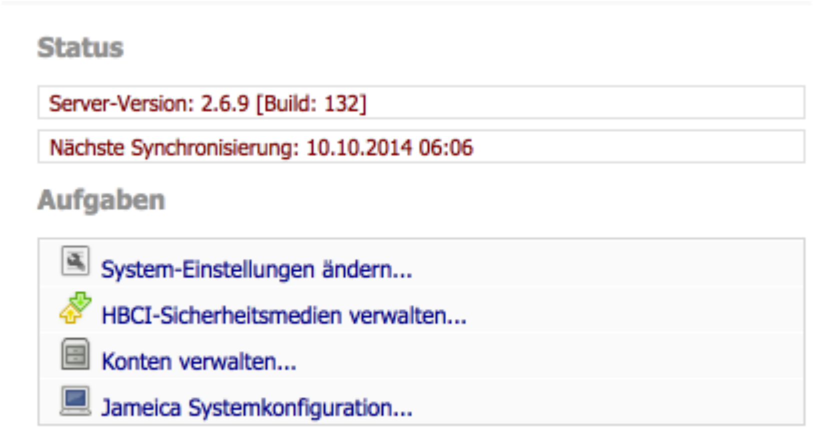
ubuntu hibiscus user:
xxx

mysql hibiscus user:
xxx

Configuration of HBCI Payment Server

Hibiscus Start Dashboard

Status and Configuration Menu



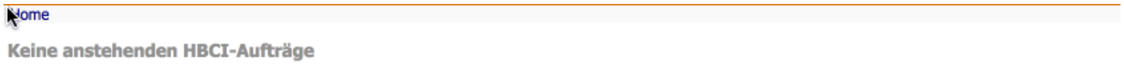
Status

Server-Version: 2.6.9 [Build: 132]

Nächste Synchronisierung: 10.10.2014 06:06

Aufgaben
System-Einstellungen ändern...
HBCI-Sicherheitsmedien verwalten...
Konten verwalten...
Jameica Systemkonfiguration...

Scheduled jobs on the server

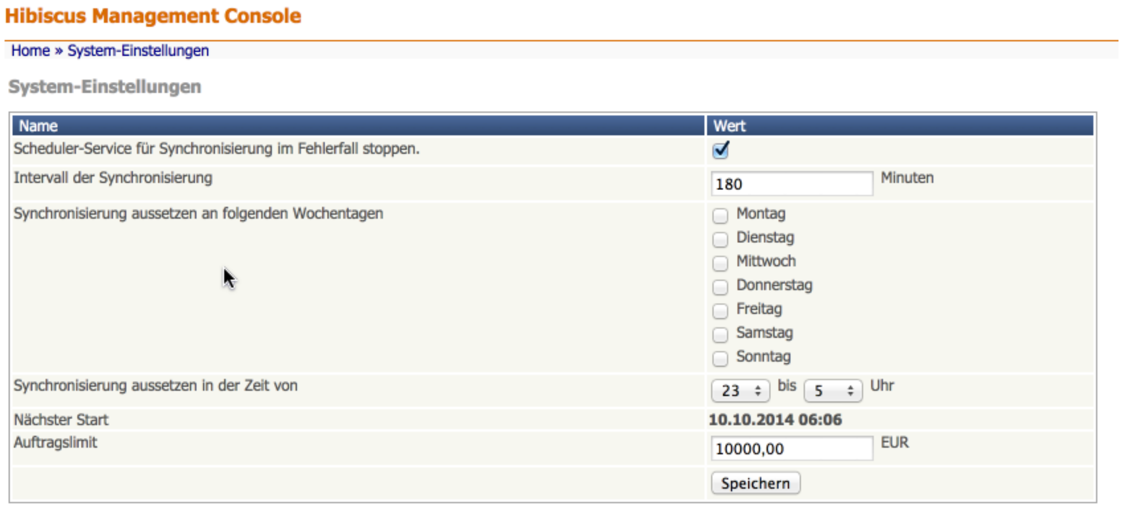


Keine anstehenden HBCI-Aufträge

Bank Server System Configuration

Blocks on homepage

Scheduler Settings



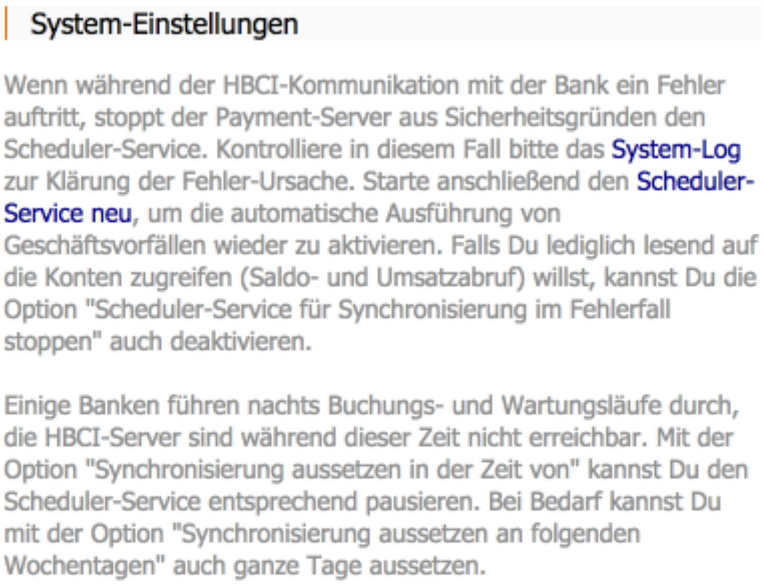
Hibiscus Management Console

Home » System-Einstellungen

System-Einstellungen

Name	Wert
Scheduler-Service für Synchronisierung im Fehlerfall stoppen.	☑
Intervall der Synchronisierung	180 Minuten
Synchronisierung aussetzen an folgenden Wochentagen	□ Montag □ Dienstag □ Mittwoch □ Donnerstag □ Freitag □ Samstag □ Sonntag
Synchronisierung aussetzen in der Zeit von	23 bis 5 Uhr
Nächster Start	**10.10.2014 06:06**
Auftragslimit	10000,00 EUR
	Speichern

System Settings for HBCI Scheduler

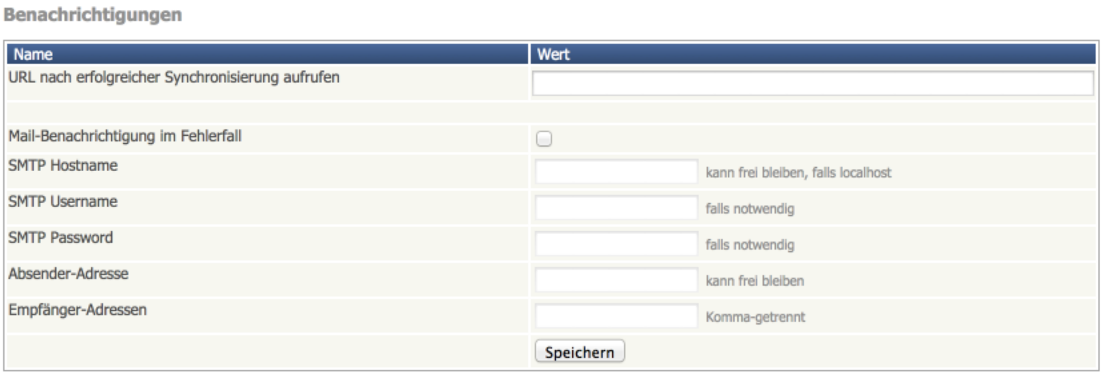


System-Einstellungen

Wenn während der HBCI-Kommunikation mit der Bank ein Fehler auftritt, stoppt der Payment-Server aus Sicherheitsgründen den Scheduler-Service. Kontrolliere in diesem Fall bitte das System-Log zur Klärung der Fehler-Ursache. Starte anschließend den Scheduler-Service neu, um die automatische Ausführung von Geschäftsvorfällen wieder zu aktivieren. Falls Du lediglich lesend auf die Konten zugreifen (Saldo- und Umsatzabruf) willst, kannst Du die Option "Scheduler-Service für Synchronisierung im Fehlerfall stoppen" auch deaktivieren.

Einige Banken führen nachts Buchungs- und Wartungsläufe durch, die HBCI-Server sind während dieser Zeit nicht erreichbar. Mit der Option "Synchronisierung aussetzen in der Zeit von" kannst Du den Scheduler-Service entsprechend pausieren. Bei Bedarf kannst Du mit der Option "Synchronisierung aussetzen an folgenden Wochentagen" auch ganze Tage aussetzen.

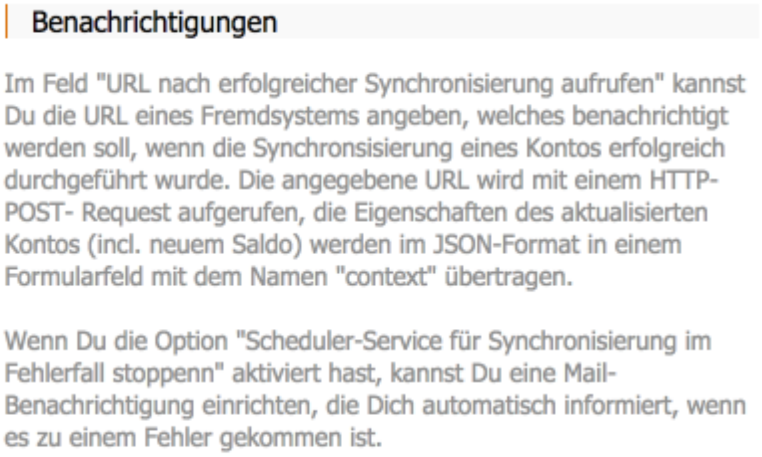
E-Mail Configuration for Notifications



Benachrichtigungen

Name	Wert
URL nach erfolgreicher Synchronisierung aufrufen	
Mail-Benachrichtigung im Fehlerfall	☐
SMTP Hostname	kann frei bleiben, falls localhost
SMTP Username	falls notwendig
SMTP Password	falls notwendig
Absender-Adresse	kann frei bleiben
Empfänger-Adressen	Komma-getrennt
	Speichern

Notification Settings

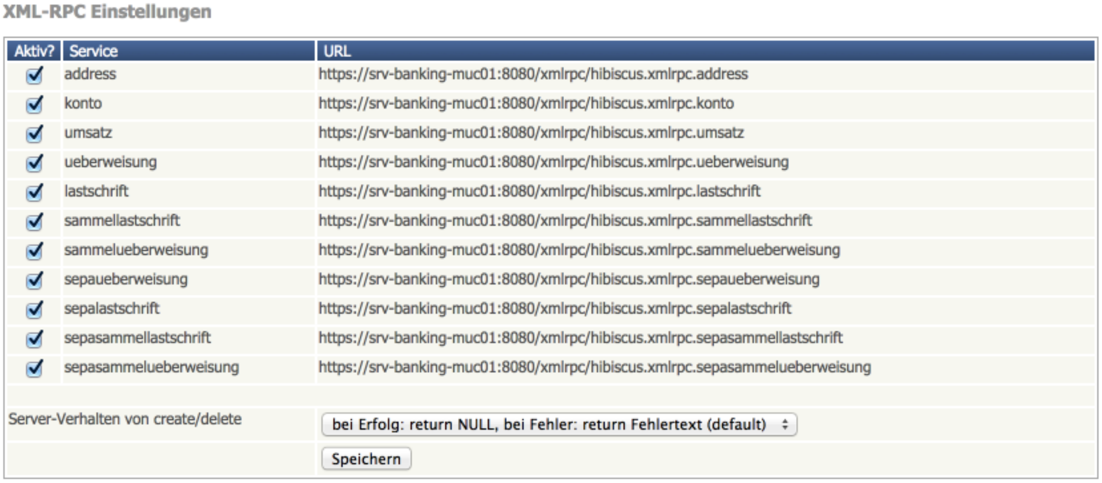


Benachrichtigungen

Im Feld "URL nach erfolgreicher Synchronisierung aufrufen" kannst Du die URL eines Fremdsystems angeben, welches benachrichtigt werden soll, wenn die Synchronsisierung eines Kontos erfolgreich durchgeführt wurde. Die angegebene URL wird mit einem HTTP-POST- Request aufgerufen, die Eigenschaften des aktualisierten Kontos (incl. neuem Saldo) werden im JSON-Format in einem Formularfeld mit dem Namen "context" übertragen.

Wenn Du die Option "Scheduler-Service für Synchronisierung im Fehlerfall stoppenn" aktiviert hast, kannst Du eine Mail-Benachrichtigung einrichten, die Dich automatisch informiert, wenn es zu einem Fehler gekommen ist.

XML-RPC service settings

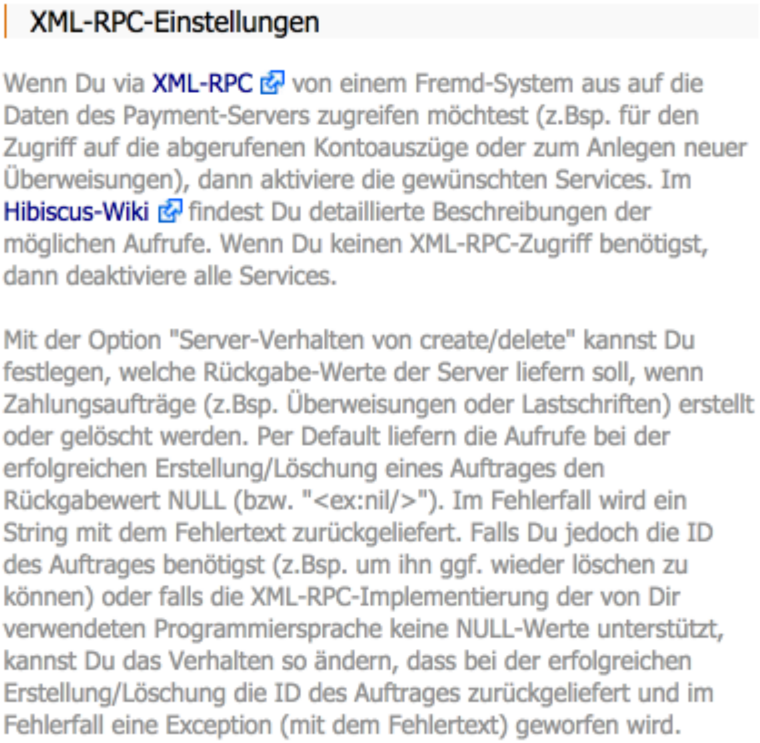


XML-RPC Einstellungen

Aktiv?	Service	URL
☑	address	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.address
☑	konto	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.konto
☑	umsatz	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.umsatz
☑	ueberweisung	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.ueberweisung
☑	lastschrift	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.lastschrift
☑	sammellastschrift	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.sammellastschrift
☑	sammelueberweisung	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.sammelueberweisung
☑	sepaueberweisung	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.sepaueberweisung
☑	sepalastschrift	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.sepalastschrift
☑	sepasammellastschrift	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.sepasammellastschrift
☑	sepasammelueberweisung	https://srv-banking-muc01:8080/xmlrpc/hibiscus.xmlrpc.sepasammelueberweisung

Server-Verhalten von create/delete: bei Erfolg: return NULL, bei Fehler: return Fehlertext (default)

XML-RPC Services



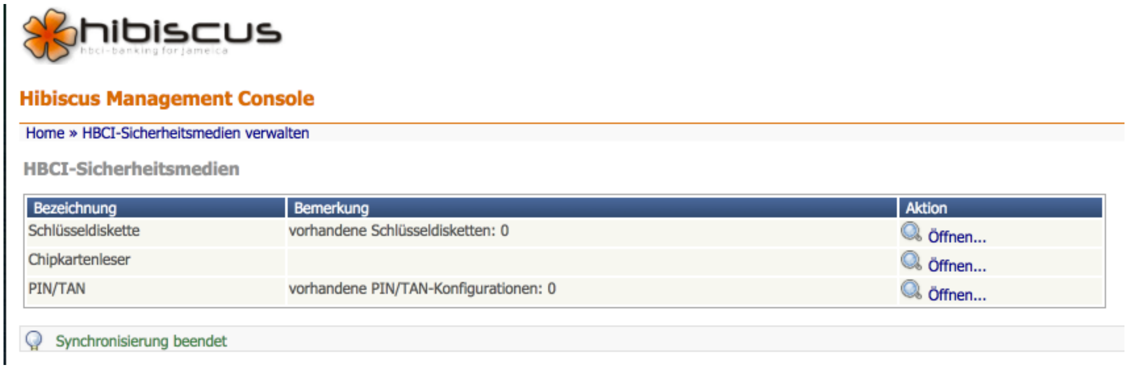
XML-RPC-Einstellungen

Wenn Du via XML-RPC von einem Fremd-System aus auf die Daten des Payment-Servers zugreifen möchtest (z.Bsp. für den Zugriff auf die abgerufenen Kontoauszüge oder zum Anlegen neuer Überweisungen), dann aktiviere die gewünschten Services. Im Hibiscus-Wiki findest Du detaillierte Beschreibungen der möglichen Aufrufe. Wenn Du keinen XML-RPC-Zugriff benötigst, dann deaktiviere alle Services.

Mit der Option "Server-Verhalten von create/delete" kannst Du festlegen, welche Rückgabe-Werte der Server liefern soll, wenn Zahlungsaufträge (z.Bsp. Überweisungen oder Lastschriften) erstellt oder gelöscht werden. Per Default liefern die Aufrufe bei der erfolgreichen Erstellung/Löschung eines Auftrages den Rückgabewert NULL (bzw. "<ex:nil/>"). Im Fehlerfall wird ein String mit dem Fehlertext zurückgeliefert. Falls Du jedoch die ID des Auftrages benötigst (z.Bsp. um ihn ggf. wieder löschen zu können) oder falls die XML-RPC-Implementierung der von Dir verwendeten Programmiersprache keine NULL-Werte unterstützt, kannst Du das Verhalten so ändern, dass bei der erfolgreichen Erstellung/Löschung die ID des Auftrages zurückgeliefert und im Fehlerfall eine Exception (mit dem Fehlertext) geworfen wird.

TO-DO: HBCI Security Disk Management

Menu Security Disk and Media



Hibiscus Management Console

Home » HBCI-Sicherheitsmedien verwalten

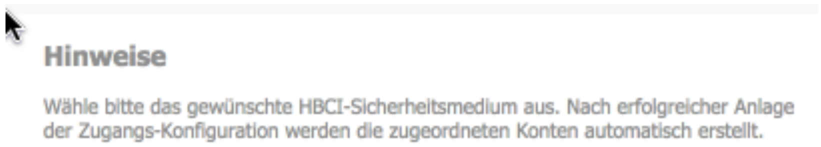
HBCI-Sicherheitsmedien

Bezeichnung	Bemerkung	Aktion
Schlüsseldiskette	vorhandene Schlüsseldisketten: 0	Öffnen...
Chipkartenleser		Öffnen...
PIN/TAN	vorhandene PIN/TAN-Konfigurationen: 0	Öffnen...

Synchronisierung beendet

Click on open to enter into the next menu

Help-Text for Security Disk



Hinweise

Wähle bitte das gewünschte HBCI-Sicherheitsmedium aus. Nach erfolgreicher Anlage der Zugangs-Konfiguration werden die zugeordneten Konten automatisch erstellt.

How to get the Security Disk (file) from your bank ?

We highly recommend to install a Hibiscus Desktop Client, to do the following things, which are described very good here:

http://wiki.ubuntuusers.de/Hibiscus/Einrichtung#Den-Schluessel-abrufen

Relevant are the following steps:
1. Ein Sicherheitsmedium erstellen
2. Daten eingeben (Please ask your bank field by field, sometimes it is tricky)
3. Den Schlüssel abrufen
4. Den INI Brief drucken / speichern
5. Anzeige des Schlüssels

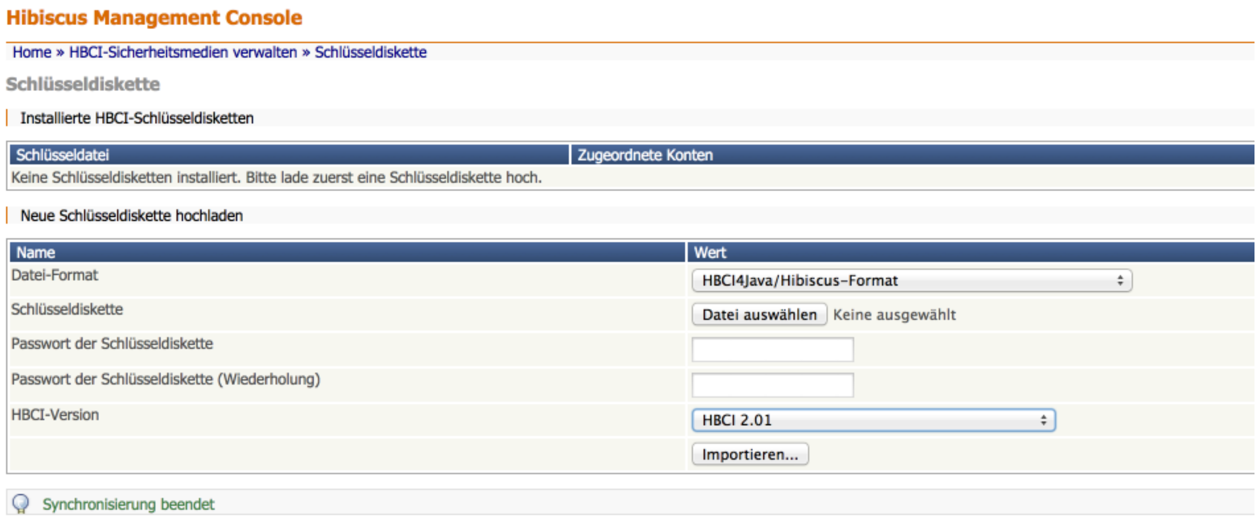
6. Schlüssel importieren.

Please read the external instructions carefully and do it step-by-step.
Follow sorrowly especially step 6. Eventually notify the security PIN for the file.
You will need it later on and it is a kind of additional double confirmation.

Normally you would be able to proceed now in the Hibiscus desktop client by following the step:

7. Konten importieren.
You may do it here and you would see that you would be able to communicate to your bank. However we want to use that key file on the server to automate the transactions and to control it remotely rom Odoo.

Open the security file



Hibiscus Management Console

Home » HBCI-Sicherheitsmedien verwalten » Schlüsseldiskette

Schlüsseldiskette

Installierte HBCI-Schlüsseldisketten

Schlüsseldatei	Zugeordnete Konten
Keine Schlüsseldisketten installiert. Bitte lade zuerst eine Schlüsseldiskette hoch.	

Neue Schlüsseldiskette hochladen

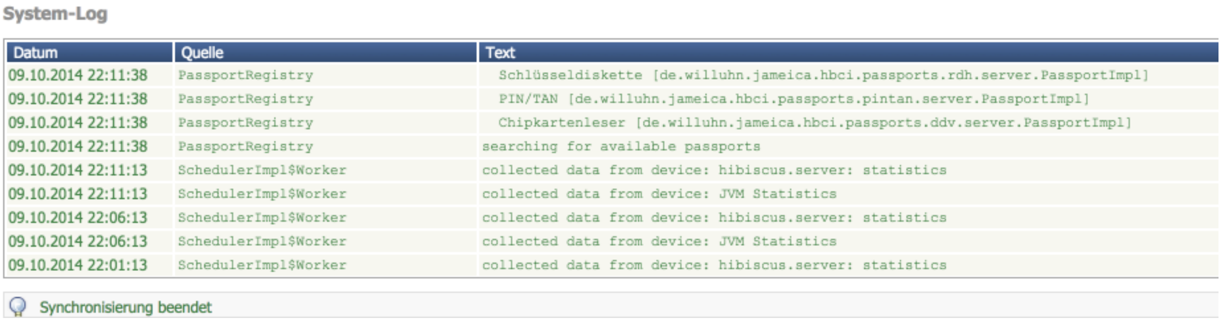
Name	Wert
Datei-Format	HBCI4Java/Hibiscus-Format
Schlüsseldiskette	Datei auswählen Keine ausgewählt
Passwort der Schlüsseldiskette	
Passwort der Schlüsseldiskette (Wiederholung)	
HBCI-Version	HBCI 2.01
	Importieren...

Synchronisierung beendet

Some advises:

- This file contains all relevant informations for your bank account.
- You don't have to define your bank account manually.
- You also don't have to define your own bank account in Odoo.
- Your bank import in Odoo will be imported later on from here.
- To be sure check which is the correct HBCI version your bank supports.

Cross Check the log file



System-Log

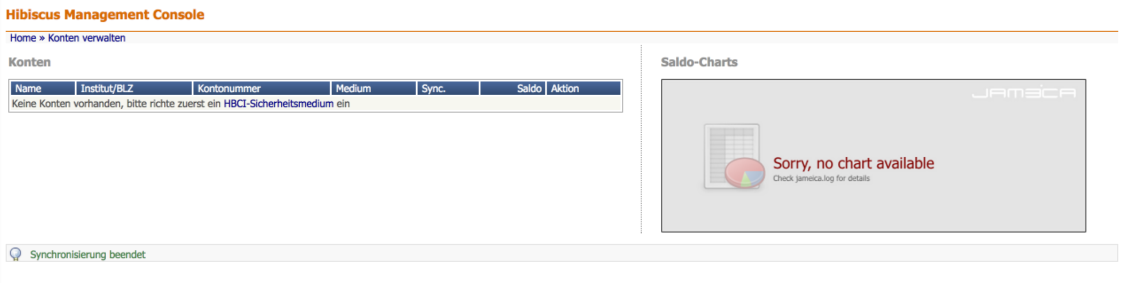
Datum	Quelle	Text
09.10.2014 22:11:38	PassportRegistry	Schlüsseldiskette [de.willuhn.jameica.hbci.passports.rdh.server.PassportImpl]
09.10.2014 22:11:38	PassportRegistry	PIN/TAN [de.willuhn.jameica.hbci.passports.pintan.server.PassportImpl]
09.10.2014 22:11:38	PassportRegistry	Chipkartenleser [de.willuhn.jameica.hbci.passports.ddv.server.PassportImpl]
09.10.2014 22:11:38	PassportRegistry	searching for available passports
09.10.2014 22:11:13	SchedulerImpl$Worker	collected data from device: hibiscus.server: statistics
09.10.2014 22:11:13	SchedulerImpl$Worker	collected data from device: JVM Statistics
09.10.2014 22:06:13	SchedulerImpl$Worker	collected data from device: hibiscus.server: statistics
09.10.2014 22:06:13	SchedulerImpl$Worker	collected data from device: JVM Statistics
09.10.2014 22:01:13	SchedulerImpl$Worker	collected data from device: hibiscus.server: statistics

Synchronisierung beendet

Here you see: Somebody tried to open a security disk.
You can see the latest entries.

Menu HBCI Management Console

Menu HBCI Management Console



Hibiscus Management Console

Home » Konten verwalten

Konten

Name	Institut/BLZ	Kontonummer	Medium	Sync.	Saldo	Aktion
Keine Konten vorhanden, bitte richte zuerst ein HBCI-Sicherheitsmedium ein						

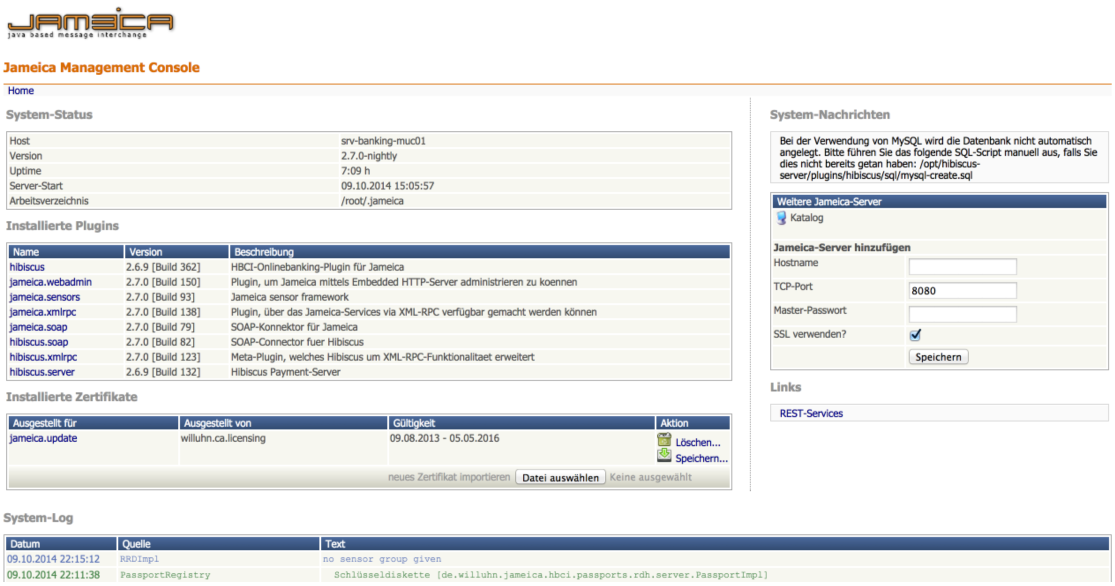
Saldo-Charts

Sorry, no chart available
Check jameica.log for details

Synchronisierung beendet

After successfull import you can see your account data and later on after first synchronisation the balance
on your bank account. Please try carefully. You have to be aware that the scheduler is already working in the
background.

Jamaica Server Management Console



Jameica Management Console

Home

System-Status

Host	srv-banking-muc01
Version	2.7.0-nightly
Uptime	7:09 h
Server-Start	09.10.2014 15:05:57
Arbeitsverzeichnis	/root/.jameica

Installierte Plugins

Name	Version	Beschreibung
hibiscus	2.6.9 [Build 362]	HBCI-Onlinebanking-Plugin für Jameica
jameica.webadmin	2.7.0 [Build 150]	Plugin, um Jameica mittels Embedded HTTP-Server administrieren zu koennen
jameica.sensors	2.7.0 [Build 93]	Jameica sensor framework
jameica.xmlrpc	2.7.0 [Build 138]	Plugin, über das Jameica-Services via XML-RPC verfügbar gemacht werden können
jameica.soap	2.7.0 [Build 79]	SOAP-Konnektor für Jameica
hibiscus.soap	2.7.0 [Build 82]	SOAP-Connector fuer Hibiscus
hibiscus.xmlrpc	2.7.0 [Build 123]	Meta-Plugin, welches Hibiscus um XML-RPC-Funktionalitaet erweitert
hibiscus.server	2.6.9 [Build 132]	Hibiscus Payment-Server

Installierte Zertifikate

Ausgestellt für	Ausgestellt von	Gültigkeit	Aktion
jameica.update	willuhn.ca.licensing	09.08.2013 - 05.05.2016	Löschen... Speichern...

neues Zertifikat importieren [Datei auswählen] Keine ausgewählt

System-Nachrichten

Bei der Verwendung von MySQL wird die Datenbank nicht automatisch angelegt. Bitte führen Sie das folgende SQL-Script manuell aus, falls Sie dies nicht bereits getan haben: /opt/hibiscus-server/plugins/hibiscus/sql/mysql-create.sql

Weitere Jameica-Server

Katalog

Jameica-Server hinzufügen

Hostname	
TCP-Port	8080
Master-Passwort	
SSL verwenden?	☑
	[Speichern]

Links

REST-Services

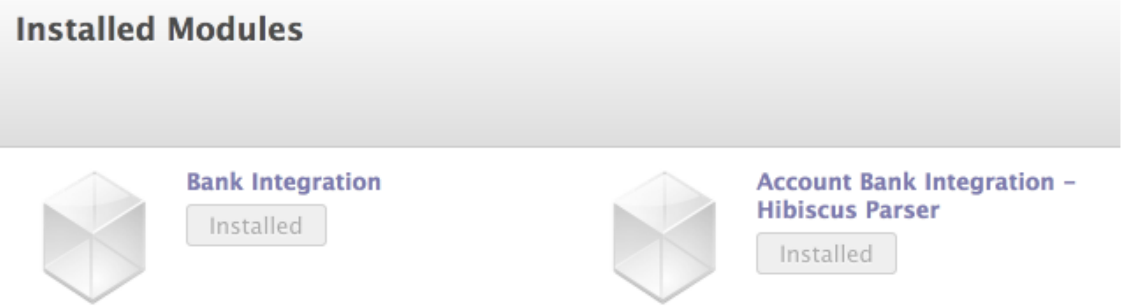
System-Log

Datum	Quelle	Text
09.10.2014 22:15:12	RRDImpl	no sensor group given
09.10.2014 22:11:38	PassportRegistry	Schlüsseldiskette [de.willuhn.jameica.hbci.passports.rdh.server.PassportImpl]

Odoo Bank Integration

Odoo accounting modules

Bank integration modules


Installed Modules

Bank Integration
Installed

Account Bank Integration - Hibiscus Parser
Installed

The module bank_integration_de_hibiscus is extension of module bank_integration. The general functionality is described in bank_integration module.
It is a basic platform for banking operations and it is based on Edusense and Therp work but simplified. This module as much as possible doesn't break certified functionality. For example the invoice reconciliation is made exactly the same way as in certified modules (by journal vouchers). Thera are almost none additional fields for original objects.

The goal of rewriting Therp and Edusense framework was to create very clear platform. It assumes that for very specific needs you have to create extension modules or include this extension in parser module. The module doesn't change or extend any of original functionality of bank statement or payment order. It only import data creating records in their original shape, and export data not touching original object if you not wish it.

For this platform you have to create or use extension modules as parsers. Parser can contain import or export or import/export method designed for specific bank file format or specific online communication. You can also create some other special extension modules not related to specific bank but related to your country or something like that. Parser will apear after installation as a selection choice in bank integration configuration settings. In this settings you can set accounts for imported bank statements and set the way import should match the transactions to Partner or to invoice. By now there is no options for export. Settings form reserves the place for specific parser settings too.

To import bank statement from file you have to run the wizard in bank statement object (form or tree) or run it from menu Periodical Processing.

To export payment order you have to select a payment method which contains bank integration settings and use usual button Make Payment or additional export wizard (it makes no confict).

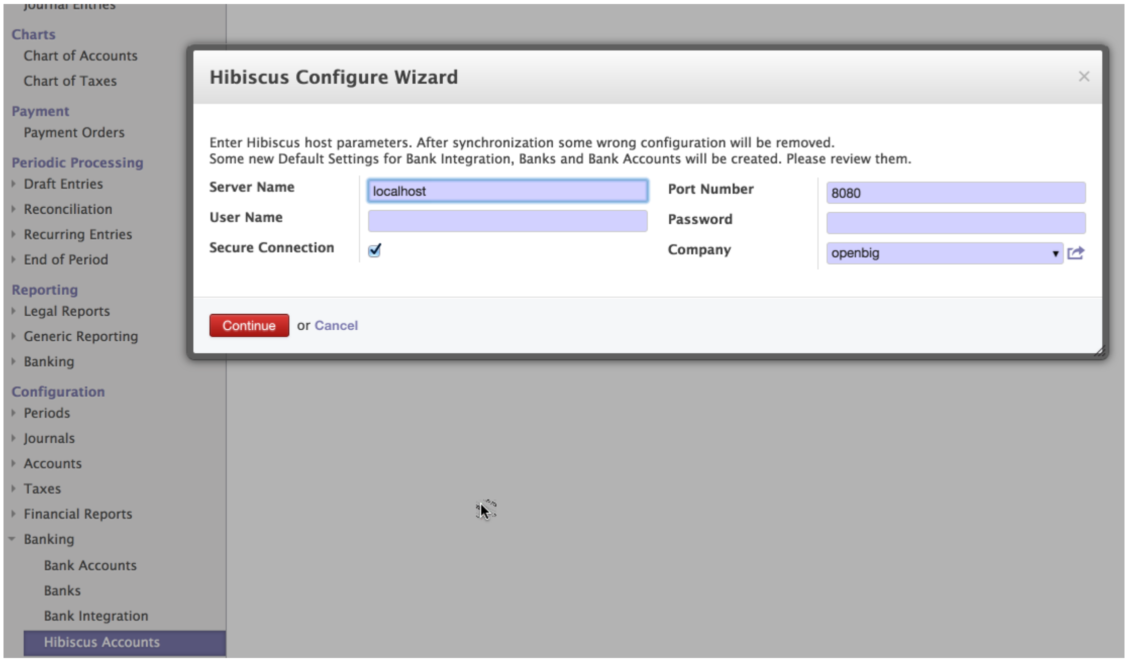
Hibiscus Parser Functionality

The most important functions are:

1. Configure Wizard - pulling bank accounts from hibiscus (as initial step)
2. Payment Orders Export Wizard - to export as ueberweisung or sepaueberweisung.
3. Bank Statements Import Wizard – to import umsatze.

Bank account import in Odoo

Hibiscus Configuration Wizard



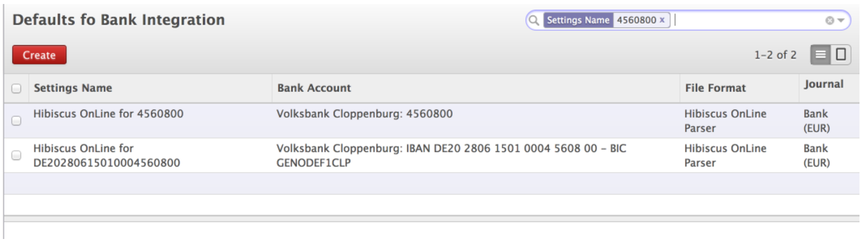
Hibiscus Configure Wizard

Enter Hibiscus host parameters. After synchronization some wrong configuration will be removed.
Some new Default Settings for Bank Integration, Banks and Bank Accounts will be created. Please review them.

Server Name	localhost	Port Number	8080
User Name		Password	
Secure Connection	☑	Company	openbig

The wizard creates banks and bank accounts in OpenERP. If they already exists they are not duplicated but only rechecked and reassigned. You can check them in menu “Invoicing - Banking - Bank Accounts / Banks”. I added such menu because it doesn't exist in standard. Most important feature of wizard is creation of Bank Integration Settings. See it in menu “Invoicing - Banking - Bank Integration” (the name "Bank Integration Settings" was too long, OpenERP cut it and looked bad).

Imported Bank accounts



Defaults fo Bank Integration

☐	Settings Name	Bank Account	File Format	Journal
☐	Hibiscus OnLine for 4560800	Volksbank Cloppenburg: 4560800	Hibiscus OnLine Parser	Bank (EUR)
☐	Hibiscus OnLine for DE20280615010004560800	Volksbank Cloppenburg: IBAN DE20 2806 1501 0004 5608 00 – BIC GENODEF1CLP	Hibiscus OnLine Parser	Bank (EUR)

Home Bank account in Hibiscus is presented by both normal account (with BLZ) and IBAN account (with BIC). Because OpenERP has only one field in Bank Account and Bank the wizard creates two bank accounts and two Banks on OpenERP side. It arises from Hibiscus - OpenERP

incompatibility. I will mention it in issues section later on.
So for bank account in Hibiscus the wizard creates a structure:

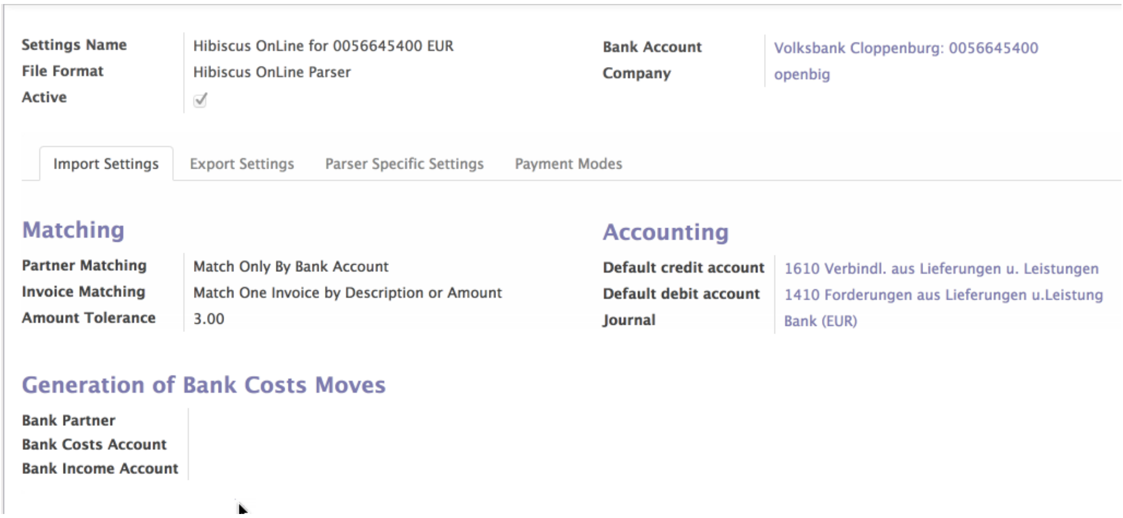
It is worth to mention that both OpenERP Bank Integration Settings contains the same Hibiscus account id and points to the same Hibiscus account. So this double structure is rather informational. During import or export it doesn't mater which Settings you select.
In Import of Bank Statements the Bank Integration Settings is used directly in wizard.
In Export of Payment Orders the Settings is used via assignment in Payment Mode.

The Configure Wizard doesn't create Payment Mode assigned to Settings because it can lead to unintended results. Like duplication of Payment Mode or improper assignment. On the other hand Lack of Payment Mode will confuse users. Lack of Bank Settings in Payment Mode will confuse users even more because for module it means “we don't need export for this Payment Mode” what would be it means “we don't need export for this Payment Mode” what would be signment. But maybe it should be considered.

Another thing which is not created by wizard is Journal in Bank Integration Settings. It can confuse user when he tries to Import Bank Statement and sees error message about lack of Journal in Bank Integration Settings. I think it is better to have such error message than guess and assign wrong Journal. Anyway to consider.

Bank Account Settings

Menu Bank Integration - Settings



Settings Name	Hibiscus OnLine for 0056645400 EUR	Bank Account	Volksbank Cloppenburg: 0056645400
File Format	Hibiscus OnLine Parser	Company	openbig
Active	✓		

Matching

Partner Matching	Match Only By Bank Account
Invoice Matching	Match One Invoice by Description or Amount
Amount Tolerance	3.00

Accounting

Default credit account	1610 Verbindl. aus Lieferungen u. Leistungen
Default debit account	1410 Forderungen aus Lieferungen u.Leistung
Journal	Bank (EUR)

Generation of Bank Costs Moves

Bank Partner	
Bank Costs Account	
Bank Income Account	

General Settings parameters:

- Settings Name – Name to identify the settings
- File Format – The format of file to import and export. This parameter has a label for general import/export purpose which usually is a file but in Hibiscus case the name of file format will have different meaning and will work not as file but as online connection.
- Bank Account – Assigned Bank account
- Company – Company assigned. Partner of this company will be used as bank account owner in Hibiscus configuration.

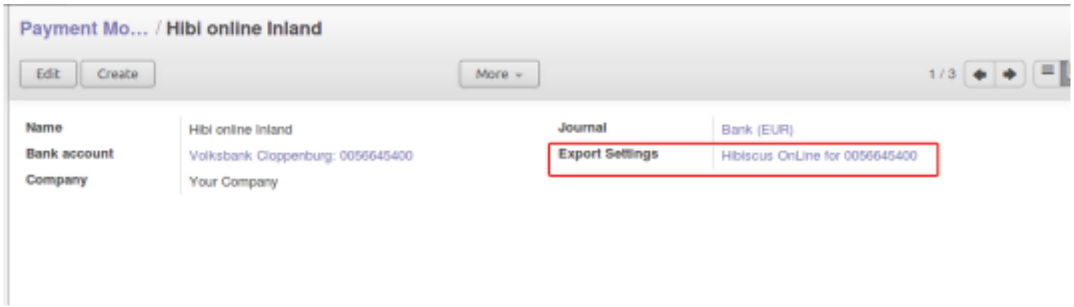
Import Parameters:

- Partner Matching – The way of matching the Partner to Bank Statement Lines in Bank Statement Import.
- Invoice Matching – The way of matching Account Move Lines to Bank Statement Lines in Bank Statement Import.
- Amount Tolerance – Tolerance between invoice amount and transfer amount accepted in matching by amount.
- Default Credit Account – Account for unexpected transfers when module is not able to select it using general rules.
- Default Debit Account – Account for unexpected transfers when module is not able to select it using general rules.

- Journal – Journal for created Bank Statement.
- Bank Partner – Data for bank operations.
- Bank Cost Account – Data for bank operations.
- Bank Income Account – Data for bank operations.

Payment Export

Payment mode settings



Payment Mo... / Hibi online Inland

Name	Hibi online Inland	Journal	Bank (EUR)
Bank account	Volksbank Cloppenburg: 0056645400	Export Settings	Hibiscus OnLine for 0056645400
Company	Your Company		

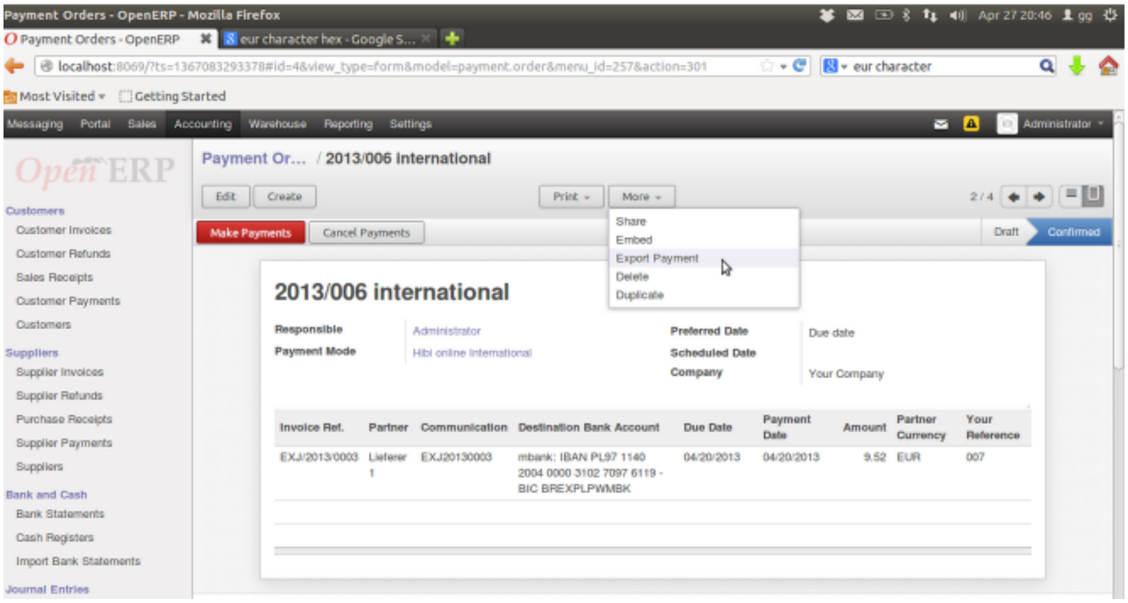
First of all you have to remember to assign Bank Integration Settings to Payment mode. It would be of course your intension to not have export settings in Payment Mode. Below is description of behavior in both cases.

- If you don't have export Settings in Payment Mode or assigned Settings are not active the Payment will not be exported and you will have no error message about it. Payment Order will change the state to Done.
- If you have export settings in Payment Mode the Payment will be exported and change of state after export depending of export Settings. It would stay in the state Confirmed or change to Done.

Advises to make a payment

You cannot mix different currencies in one Payment Order. The currencies in one Payment Order must be the same and has to fit to currency in Hibiscus Bank Account. Otherwise it is an error message. Because it can be very dangerous the module checks currency compatibility in Hibiscus Bank Account during every export (to avoid problems of sudden changes on Hibiscus side). Successful export is announced by final export window with export information. If Payment Mode used in Payment Order has no Bank Integration Settings there is no export and no final information. There is no error message or warning because I can imagine that user would like to export only some Payment Orders not all.

Make a payment



2013/006 international

Responsible: Administrator
Payment Mode: Hibi online International
Preferred Date: Due date
Scheduled Date:
Company: Your Company

Invoice Ref.	Partner	Communication	Destination Bank Account	Due Date	Payment Date	Amount	Partner Currency	Your Reference
EXJ/2013/0003	Lieferer 1	EXJ20130003	mbank: IBAN PL97 1140 2004 0000 3102 7097 6119 - BIC BREXPLPWMBK	04/20/2013	04/20/2013	9.52	EUR	007

You operate with Payment Order in OpenERP like usual.
Export can be made two ways, **however the second option should be used only in emergency cases**, to avoid sending a payment for one invoice two times.

We advise to export the payment by:

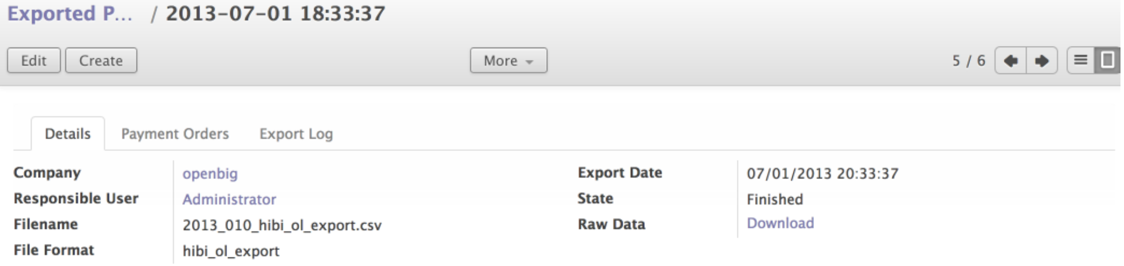
1. Clicking the button "Make Payments"

A payment export in an emergency case can be done also by

2. Using menu “More”, Confirming the payment.

Again, this second is an emergency case, for example manual deletion of a payment order line on the Hibiscus banking server.

Reporting of payment transaction details

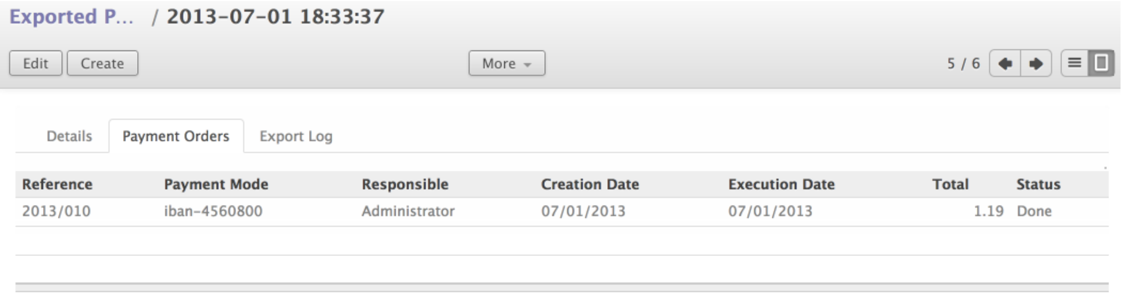


Exported P... / 2013-07-01 18:33:37

Details | Payment Orders | Export Log

Company	openbig	Export Date	07/01/2013 20:33:37
Responsible User	Administrator	State	Finished
Filename	2013_010_hibi_ol_export.csv	Raw Data	Download
File Format	hibi_ol_export		

Exported payment orders and export log



Exported P... / 2013-07-01 18:33:37

Details | Payment Orders | Export Log

Reference	Payment Mode	Responsible	Creation Date	Execution Date	Total	Status
2013/010	iban-4560800	Administrator	07/01/2013	07/01/2013	1.19	Done

Issues and Remarks

Incompatibility of bank accounts

Hibiscus Bank Account is identified by:

- Bank account
- Bank BLZ
- Bank Account IBAN
- Bank BIC

It is one object (record).

In OpenERP the Bank can be identified only by two fields:

- Bank name
- Bank Bic
-

In previous version it were three fields Bank name, Bank code (we used for BLZ) and Bank BIC. So now to have bank definition for domestic and international transfers we have to create two records for each bank. The same manner OpenERP sees Bank Accounts. You cannot have one Bank account for domestic bank account number and for IBAN. You have to create two records for each bank account. Fortunately we need it only for our home banks (our company banks). For partners we need either domestic (for German companies) or IBAN (for others).
Thats why Hibiscus Configure Wizard creates two banks and bank accounts in OpenERP for one Hibiscus account. After creation by Wizard the one of bank account, bank and settings (from pair) can be deleted if they are needless. Fe. You have USD bank account which is never used as domestic, so you can delete domestic definitions: (bank definition with BLZ, domestic bank account definition, domestic bank settings definition) and use only definitions with IBAN and BIC.

Incompatibility of currency

Hibiscus has currency definition in its bank account record. It is invisible in bank account definition in Hibiscus client but it is set during Bank Account setting in special procedure of importing transfer keys (pin/tan or other). You can see the currency yet when you see amounts. In OpenERP bank account has no currency settings.

Import explanation:
In usual procedure for Bank Statement the currency is taken from Bank Statement Journal. During Bank Integration module Import the Journal is taken from Bank Integration Settings (it is import parameter). Hibiscus module checks compatibility between Hibiscus Bank Account currency and

Bank Statement Journal currency during each import.

Export explanation:
For Payment Order the currency is defined in each Payment Order line. So because in Hibiscus you can send from one Bank account only one currency transfers (maybe this conclusion is wrong) the Hibiscus module export doesn't allow to export mixed currency Payment Order lines and checks that this currency is equal to Hibiscus Bank Account currency.
Hibiscus export module takes Hibiscus Bank Account currency before each Payment Order export and checks for every Payment Order line.
I emphasize that Hibiscus Bank Account currency is pulled by XMLRPC call for checking compatibility before each import or export. This should prevent against problem that something is changed after initial hibiscus connector configuration.

Export character set incompatibility

Characters allowed in Hibiscus description fields (verwendungszweck) are:
alphanumeric and $, % , & , * , + , / , - , comma, dot and space.

During Payment Order export the Hibiscus module has to cut from description texts all other not allowed characters.

Kind of transfer selection during export (TO BE UPDATED - SEPA)

Hibiscus has three kinds of transfers: Ueberweisung, SEPAUeberweisung and Lastschrift.

Hibiscus module has following algorithm to recognize the kind:

First check is for Bank Account of Partner. If it is with letter at the beginning module assumes it is an IBAN Account and treat the transfer as SEPAUeberweisung. If the home Bank Account on Hibiscus side has no IBAN entered it will be error message from Hibiscus side. Second is the check if amount is positive. It means that we want to send money. So module selects Ueberweisung.
At the end if amount is negative module assumes it is Lastschrift. This option is almost not tested.

Character coding incompatibility

This point is not fixed. (TO CHECK)
I some cases Hibiscus module shows error messages generated by Hibiscus-Server. It is XMLRPC response. They mostly are in German. The problem is that they are not decoded properly on OpenERP side. Instead of umlauts we have some digital representation of character.
Like:
Das ausgew\xe4lte konto besitzt keine IBAN.
Unequivocal object identification

Unequivocal object identification

This point is to consider. It is not realized and can be a development direction for future.
We can have full id relations between objects of OpenERP and Hibiscus:

Hibiscus Umsatz - OpenERP Bank Statement
and
Hibiscus Uberweisung/SEPA Uberweisung/Lastschrift - OpenERP Payment Order

We can store in OpenERP the Hibiscus IDs of Payment order lines and Bank Statement lines. So we could create a functionality to check if Particular Payment order line was already sent to Hibiscus (as Ueberweisung, Lastschrift, or SEPA Ueberweisung). And we could create functionality if particular Bank Statement (umsatz) was already imported. But it is much more code with more xmlrpc calls to Hibiscus. And it would need some special settings on Hibiscus side (see below). For both Hibiscus client and Hibiscus Serever in file:

de.willuhn.jameica.hbci.xmlrpc.Plugin.properties
this parameter should be set to false
xmlrpc.supports.null=false

In Hibiscus Server it can be switched in webadmin too.

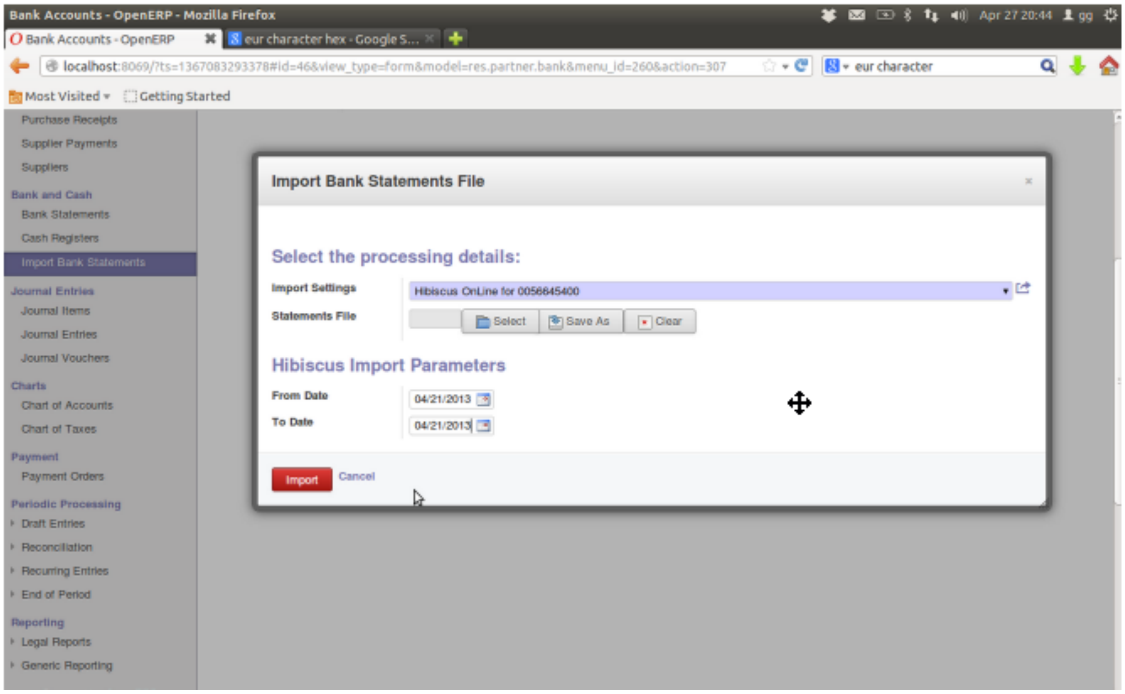
With such setting hibiscus returns ID of the record on hibiscus side. When this parameters is set to true Hibiscus returns NULL instead of record ids.

Current state:
Now it is no control of Payment Order sent to Hibiscus. We can only use Export setting to set the Payment Order state to Done to not repeat the same Payment Order.
Now it is no control of Bank Statement imported from Hibiscus. Some control can be made

watching special log of exported and imported files. They can be found in menu “Invoicing – Reporting - Banking – Exported / Imported Files”. In case of Hibiscus Online Parser you can see XMLRPC calls or results instead of file.

Payment Import

Assistant to import a bank statement



Import Bank Statements File

Select the processing details:

Import Settings: Hibiscus OnLine for 0056645400

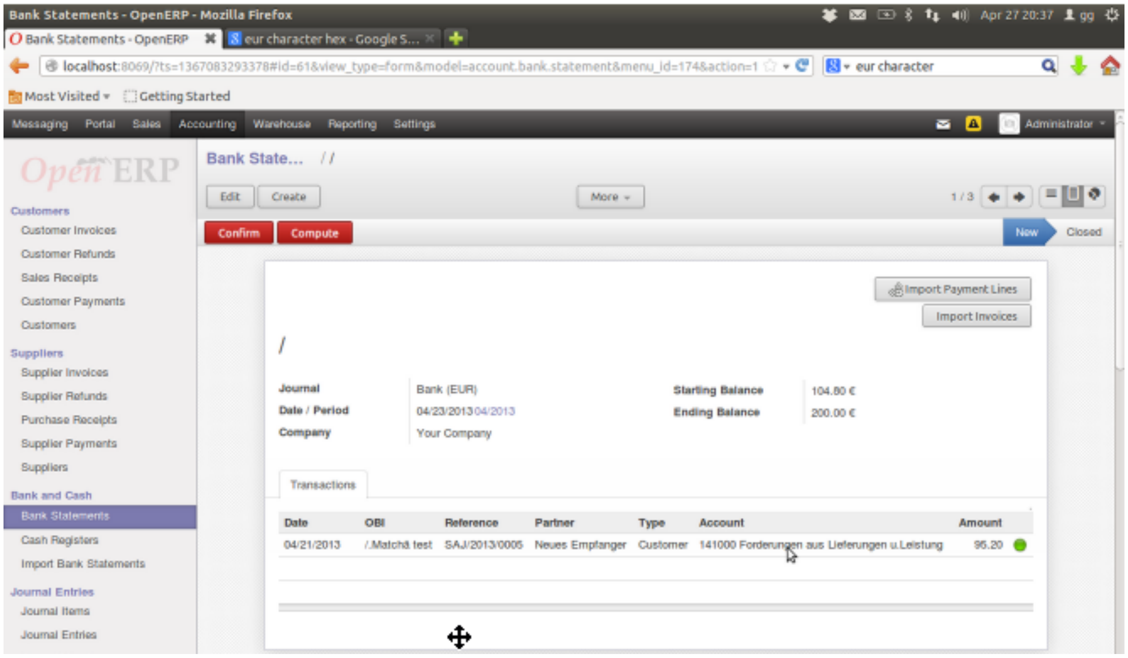
Statements File

Hibiscus Import Parameters

From Date: 04/21/2013

To Date: 04/21/2013

Bank statement after import



/

Journal: Bank (EUR)

Date / Period: 04/23/2013 04/2013

Company: Your Company

Starting Balance: 104.80 €

Ending Balance: 200.00 €

Date	OBI	Reference	Partner	Type	Account	Amount
04/21/2013	/.Matchä test	SAJ/2013/0005	Neues Empfanger	Customer	141000 Forderungen aus Lieferungen u.Leistung	95.20 🟢

Matching Logic

It is controlled in the IMPORT SETTINGS:

Partner Matching options:

a. No matching - partner is not recognized in bank statement at all.
Matching of partner must be done manually.

b. Match Only By Bank Account.
The most reliable way. If we have bank account assigned to partner in OpenERP and the same bank account is in bank statement import file we can be sure about partner assignment. Farther options does this matching too but they do more if they are not successful.

c. Partner Matching by Name
Platform tries to find the partner by name. If b. is not successful it compares the name of partner achieved in import file to Partner name in OpenERP. It is rather problematic to have the partner names exactly the same in imported file and in OpenERP but maybe.... And if this matching is successful the platform assigns the bank account to partner in OpenERP so next time assignment is perfect because it is made as option b.

d. Partner Matching by Invoice Number
If b. is unsuccessful platform reviews all open invoices and look for their numbers in any description from bank statement. If platform finds it it assigns the transaction to this partner and it creates bank account for him if needed. Invoice matching depends of farher option.

e. Create Partner When No Match.
If b. is not successful platform creates new partner with given bank account. New Partner is marked with (?) before name so user will know that it needs fixing. This option can be used when Company expects incoming payments from unknown partners.

But usual situation is that payment is from customer invoice and we already have this partner in OpenERP. And we usually don't create a bank account for such partners as it is not common to ask him for bank account when we expect incoming payment. In such case option b. will not work. Option c.

usually will not work as names are usually written in different way or even not separated of addresses in import files. Option e. will duplicate the partner (not good). So we created option f.

f. Match To Unknown Partner.
If b. and c. is not successful the platform creates only bank account (which is always perfectly known from import file) and assigns it to one partner with name "Unknown". All unknown bank account are assigned to one "Unknown" partner. This easy way we collect bank accounts from import file to OpenERP. Then user has to review bank accounts. And he should manually reassign all partner bank accounts assigned to "Unknown" partner to proper partners according to text description. Next best step is to remove imported bank statement and import it again. Now all partners would be assigned by bank account.

Invoice Matching options:

a. No Matching
Platform will not try to much invoices to transaction. So it would be no matching at all or Partner matching only.

b. Match One Invoice by Description or Amount
Platform will try to find the invoice by description. If partner matching is set to "Partner Matching by Invoice Number" it can also create the partner. If partner matching is set to other option searching by description will work only when partner is known.
If matching the invoice by description fails the platform will try to match the invoice by amount. It works only when the partner is known. Amount difference can be set in configuration (Set there fe. 3% of amount. So it will catch amounts even with some currency rate difference or cash discount).

c. Match All Invoices by Description or Within Amount
(not implemented yet) Intention is to collect all invoices mentioned in description. Or if it is no invoices mentioned in description try to match open invoices whose sum is within or close to transaction amount. Hard to implement as Refunds should be taken into account as well.