Osclass software

ACCOUNT SYNCHRONIZATION PLUGIN

Welcome to documentation for Account Synchronization Plugin. Primary function of plugin is to synchronize user accounts between different Osclass installations.

Single Domain License: granted a non-exclusive, non-transferable worldwide license to use this product in one domain only. For <u>multi-domain usage</u>, it is required to purchase product multiple times. Please register 1 account for every domain, for easy identification and fluent product updates.

Please note that it is required to have basic knowledge of osclass to understand plugin functionality. Please find bellow basic FAQ. Plugin require CURL.

Where is Osclass documentation?
https://docs.osclasspoint.com/

How to translate plugin?
https://osclasspoint.com/blog/how-to-translate-themes-and-plugins-b3

What is CRON and how to setup CRON?
https://docs.osclasspoint.com/cron-setup

I need help, what to do?
https://osclasspoint.com/support/tickets
https://forums.osclasspont.com/account-synchronization-plugin/

Plugin at work

Plugin synchronize user records between multiple Osclass installation, where each installation must have Account Synchronizer Plugin installed.

First, you should define other websites, with those you want to share user records, in Accounts section. Account is basically 1 domain/website/Osclass installation.

Feeding user records

When account is defined, and this account is "master" one, you probably want to feed (download) data from this osclass installation into your current. This action is not automatic, to avoid unwanted data rewriting.

To do feed, you go to Accounts section and click on "Feed now" button. Now your site will call website defined in account (URL) and will try to get first portion/batch of user records. It will start from very first user ID and maximum number of records transmitted is defined in that installation as "Feed limit" parameter.

If source installation has just few user records, feed will be completed in 1 round. If there is much more records, you will repeat this action multiple times.

Current status of feed/synchronization is written in "Message" of account and can look like: *Progress: 23.81% (Total stats - Retrieved: 5, Remaining: 16, Total: 21 / Last request stats - Retrieved : 5, Limit: 5, From user ID: 0)*

It includes overall progress as well as statics of last call. If you want to restart feed, go to account settings and set "Last User ID" to 0.

Note: If you completed feed from this website, you do not need to repeat this anytime in future, as any change made on source website (source of feed) will stream these changes automatically to all accounts defined there.

Note: Only active & enabled user records are provided by source domain.

Note: If you have multiple Osclass websites for synchronization, let's say 4 installations and each contain unique & duplicated records, we recommend to set priority for these websites (Lets say domain A: priority 1, domain B: priority 2, …) and then start feeding by this priority. It means you would start feeding on

domain with lowest priority and there you would start again with lowest priority account. Order would be:

- First enter Domain D, from there do feed of Domain C, then Domain B, last Domain A.
- Next enter Domain C, from there do feed of Domain D.
- Next enter Domain B, from there do feed of Domain D.
- Last enter Domain A, from there do feed of Domain D.

Streaming user records

When all Osclass installations are synchronized, feeding should not be required anymore. When user record is created or updated let's say on Domain A, and this domain has defined 3 accounts: Domain B, C, D; then update/insert of user record on Domain A will be streamed automatically using CRON to Domains B, C, D. These domains must have Domain A defined in Accounts section to pass authentication based on API key.

Streaming is executed on following actions:

- New user registration
- User updated record
- User has been activated
- User has been deactivated
- User has been blocked
- User has been unblocked
- User has been removed

Streaming process is not directly connected to this action, because it could have negative impact on end user, therefore user ID/Email that should be streamed is stored into variable.

Content of this variable (users updated for stream, users removed for stream) is read by functions executed by CRON and streamed to target accounts. For this reason, in order to provide fast and up-to-date synchronization, you should create CRON command in your CRON tab of hosting that will execute following link at least once per 5 minutes, ideally every minute: {YOURSITE.COM}/oc-content/plugins/account_sync/cron.php

Streaming is automatically performed to all accounts defined in Accounts tab.

Authentication

As you might noticed, stream & feed features are quite powerful and must be secured properly. For this reason, there are API keys.

Let's consider 2 domains, Domain A and Domain B, where Domain A has API key (Configure section of plugin) defined to "abc123" and Domain B has api key "efg678".

When Domain B do feed from A, or stream to A, it will attach it's own API key into call done to A. Key "efg678" will be attached to this request.

Domain A will receive feed/stream request and will get key "efg678", now it will look into list of accounts defined in Accounts section and will search for account having this API key defined. As you can see, API key is unique identificatory and you should define unique value for each domain.

If Domain A will not found any domain having API key "efg678", it will return response (one of following):

- ERR: API Key is invalid - no account found
- ERR: API Key is missing

For this reason, you must define Domain B in Accounts list of Domain A, and vice versa, Domain A in Accounts list of Domain B.

Overview

Plugin administration consists of 5 sections:

- **Configure** – plugin basic configuration

- **Accounts** – section to define synchronization accounts

- **Logs** – logs section with details about transactions

Installation and basic setup

- Download plugin, you will get file ZIP archive
- Go to oc-admin > Plugins section, click on blue "Add plugin" button at top right of screen
- Select downloaded ZIP archive and click on "Upload" button
- Go to oc-admin > Plugins section and install Account Synchronization Plugin

Configure

In configure section you can setup default parameters of plugin.

API Key – enter your private key, that should be string that consists of random characters and numbers and should be long at least 20 characters. When you install plugin, it should be already pre-defined, anyway you can change it to your own value.

Key is basic identification of your website across other websites/domains using Account Synchronizer Plugin. When this site makes call to another site, it will attach key in order to provide own identification.

When data are sent to this website from other website(s), these will also use API keys to provide authentication.

Custom user columns – In case your user table contains newly defined columns those are not part of original Osclass installation, you can define them here (i.e. s_whatsapp, b_isarchvied, …) and then choose these columns when defining account.

Feed limit – is maximum number of user accounts those can be transmitted in 1 feed call. Cheap/low server can handle hundreds (i.e. 200), high performance server should handle thousands (i.e. 5000). Feed limit is used just when this site is feeding user records from other websites after installation.

Cron – in order to provide proper function of plugin, CRON (hourly) must be defined on your Osclass installation. Defined means, you have CRON command in CRON console.

Anyway, we strongly recommend to define extra CRON command executed every 1-5 minutes and call this URL: {YOURSITE.COM}/oc-content/plugins/account_sync/cron.php

This is especially important, when new user register on this site, user record/data is streamed to other websites via this CRON.

Accounts

Accounts are target/source websites/domains, from where you will feed user data or/and to those you will stream user data from your website.

Account URL must refer to base URL of Osclass installation that has Account Synchronizer Plugin installed & configured as well (and has also 1 account created for this/your website).

It means, if you want to stream & feed user records between Domain A and Domain B, Account Synchronizer Plugin must be installed at both domains, where:

- In Domain A, account for Domain B is defined with proper API key (B-api key)
- In Domain B, account for Domain A is defined with proper API key (A-api key)

Account Configuration Section

You can configure account – information about other Osclass installation using this plugin – in this section.

Name – for internal use only or your own identification.

URL – base link/url to another Osclass installation from where/to that user records will be streamed/fed.

API key – Key of this domain, that this domain has defined in Configure section of Account Synchronization Plugin

Columns – Select columns those will be used/updated when data are fed from other domains to this domain. Other fields will be ignored. You may find there also description or business profile plugin data.

If you are missing one or more fields, define them first in Configure section of plugin – Custom user columns.

Last User ID – when you are feeding data after installation from this site, and it contains thousands of user records, you cannot do it in one step because of server limits. Last User ID is stored for this purpose, so feed functions know where to continue with data feeding.

If you would like to restart feeding, set Last User ID to 0.

Synced From – statistics, tells you how many records you fed from this account/domain.

Synced To – statistics, tells you how many records you streamed to this account/domain.

Synchronization Details Section

Last synchronization (feed or stream) data. More details can be found in logs.

Status – status of last sync action, can be numerical code (200, 404, 500, …) or text (OK, ERR). OK and code 2xx are considered as successful state.

Message – Summary/detail information about last sync action. Can contain transferred object, message, statistics or error log.

Synchronization date – Timestamp of last sync action

Account Logs Section

Show last logs related to this account. Log details and parameters will be described in next section.

Logs

Logs are created in almost every action when some data are transmitted or processed.

There are 3 types of logs:

- **PROCESS** – created when data (usually from feed action) are processed and stored in your installation
- **FEED** – data from other accounts are transmitted to your domain
- **STREAM** – data from your domain are streamed/transmitted to other domains defined in Accounts section

Log contains different information about executed action and are helpful in case of problem debugging.

Account ID – ID of account to that log is linked/bound

Account name/Identifier – account identification

Account key – key used for authentication

IP address – client/server IP address

Date – Timestamp when action has been executed/occurred

Status code – can be numerical (200, 400, …) or string (OK, ERR)

Response – response from server or information/details about action

Content – usually json encoded object that was objective of transmission/action