

Plex index's & RemIdx

This document is a **MUST READ** document **EVERY TIME YOU UPDATE** this program.

Table of Contents

About Plex	1
What is RemIdx.....	2
What is Indexes	2
The problem	2
The program	2
System Requirements	2
Remote Indexer Workstation.....	3
How it works	3
Installation.....	4
PMS Agent Installation.....	4
PMS Agent configuration.....	4
Remote Indexer.....	6
Dependencies.....	6
Configuration.....	6
Using it.....	6
Known issues.....	7

About Plex

Plex is, at least as the writer of this documents thinks, the best of all media centers out there, due to the following:

- It's free
- It supports streaming towards multiple devices native
- IOS
- Android
- LG Smart TV
- Google TV
- Samsung Smart devices

and lot's of others

It also allows you to share your medias to either your-self, when on the road, or friends

Plex can be found here: <http://plex.tv/>

What is RemIdx

- RemIdx is a free open-source program, that adds to your Plex experience.
- RemIdx can be found here: <https://github.com/ukdtom/RemIdx>
- RemIdx will take the burden of your Plex server, if indexing is a problem
- RemIdx can be stopped/started at any time, and will continue where it left off

What is Indexes

Indexes, at least as I see it, is that Plex has implemented a new functionality, allowing you the following things:

- In your player, if the player support it, when doing a fast forward, they will see small snapshots of the movie, allowing the user to quickly determine where to go, instead of relying on movie timestamps
- In the Plex Web administration pages, when signed in to myPlex, you can see what people using your server is watching, and follow their progress via thumbnails of the movie In short, indexes is a small file, that contains snapshots of pictures in your medias at regular intervals

The problem

If you have a large section within Plex, and decide to switch on indexing, or if you have indexing turned on, and bulk add a lot of new medias, you might end up with your Plex Server not responding, due to a heavy workload on the server, until all medias has been indexed, and this **could take days!**

Naturally the time frame of this all depends on both the amount of items in your section, as well as the duration of the individual items, and the power of your server.

(But community reports are telling about **+15 days** for the task to complete, and most people can't live without their Plex for more than 5 sec. so it's a problem)

The program

System Requirements

Since this is a two-headed beast, requiring both a plug-in running on your PMS, as well as a remote workstation, I'm happy to say, that PMS wise, all platforms should be supported, but currently only

tested on QNAP.

Remote Indexer Workstation

This little program needs the following:

- ffmpeg must be installed on the workstation running this program
- Python 2.7 must be installed on this workstation . (And it **must** be version 2.7)
- Currently, Windows as a PMS server is **NOT** supported, but will be soon

How it works

The program will do the following:

- When a media is refreshed, the agent bundle named RemIdx.bundle will detect this, and check if an Index exists
 - If an index already exists, it'll simply exit
 - If an index does not exists, it'll notify the Remote Indexer
- The Remote Indexer will then do the following:
 - add the media to it's Queue
 - Process the Queue one by one, and do the following:
 - Stream down the media, and generate a bunch of thumbs
 - generate a bif file of above
 - Slam the PMS RemIdx agent on the PMS about the fact, that a Bif-file is ready
- PMS agent will then do the following:
 - Query the Remote Indexer about available Bif-files for download, and then fetch them one by one
 - Add them to the library
 - Tell the Remote Indexer to remove them from it's storage
- The Remote Indexer will then do the following:
 - Remove the Bif-File

And then the story starts all over

Note:

If the Remote Indexer is not up and running, when doing a refresh on the PMS, requests will be discarded.

Installation

PMS Agent Installation

After downloading this app, you must extract it, and will end up with a directory that looks like this:



Then you must locate the correct Plug-In directory on your PMS, so follow the guide here:

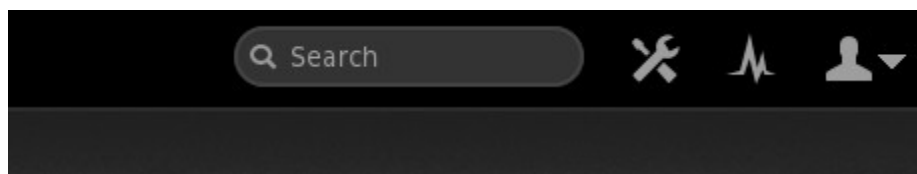
<https://plexapp.zendesk.com/hc/en-us/articles/201106098-How-do-I-find-the-Plug-Ins-folder->

After locating it, copy the folder named RemIdx.bundle to that folder, and restart your PMS

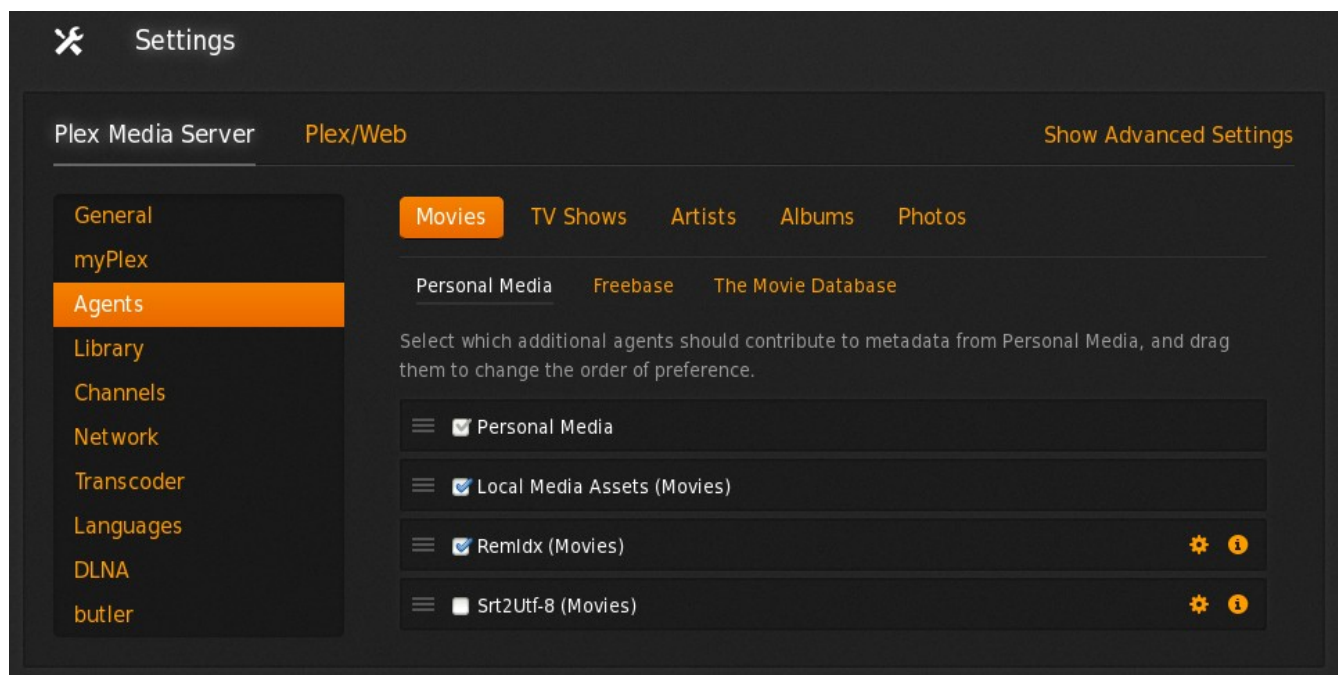
PMS Agent configuration

After the agent has been installed, and your PMS has been restarted, the agent must be configured, and to do so, you must access the Web Administration of PMS, and there select Settings(the tools icon) on the top right:

<http://<IP address of your PMS>:32400/web/index.html#!/settings>



Then make sure, that you on the top left selected “Plex Media Server”, and then the “Agents”



Now under the “Personal Media” for the Movies, you should find an entry named RemIdx. Make sure it's enabled, and at the bottom. Then click on the little gear icon for it, and in the dialog that opens, fill out the missing gaps.

The image shows a dialog box titled 'RemIdx (Movies) Settings'. It contains four input fields: 'Remote Indexer IP address or DNS name' with the value '192.168.1.150', 'Port number of remote indexer' with the value '32405', 'Local IP Address of this PMS' with the value '192.168.1.12', and 'Local port of this PMS' with the value '32400'. At the bottom right are 'Save' and 'Cancel' buttons.

It is important, that you for the entry named “Local IP Address of this PMS” **not** use the loopback address, but the actual LAN address of your PMS. In my case it was 192.168.1.12

Click save, and you're done with the PMS configuration

Remote Indexer

Dependencies

Before starting the Remote Indexer, you'll need the following:

Python 2.7.x found here: <http://www.python.org/downloads/>

FFMPEG, found here: <http://www.ffmpeg.org/download.html>

After downloading and installing above, you'll have to find the exact path to the FFMPEG executable, including it's name

In my case, running OpenSuse, it's : /usr/bin/ffmpeg

Configuration

Now open the file from the extracted directory named Remote_Indexer/RemIdx.py with an editor like notepad or siml.

Locate line 23, that will look like: `PATH_TO_FFMPEG = "/usr/bin/ffmpeg"`

Change that to match the path to FFMPEG for your workstation

Locate line 28, that will look like: `LOCAL_PORT = "32405"`

Change that, if you changed the defaults when you configured the PMS

Save the file again

Depending on your OS, you must now make sure, that any local firewall allows outside access to the LOCAL_PORT for http. (Defaults to 32405)

Using it

On the remote workstation, open up a terminal/command prompt, and navigate to the extracted directory/Remote_Indexer

Run either RemIdx.sh (Linux and Mac) or RemIdx.cmd (Windows)

You should now see a picture looking like this:

```

*****
* Welcome to the RemIdx Remote Indexer version 0.0.0.5
*
* Made by dane22, a Plex community member
*
* If you have not yet customized me, you need to do so now!
* Press <ENTER>, and edit lines 23 and 28 before starting me again
*****
* Path to ffmpeg is: /usr/bin/ffmpeg
*****
* http daemon init okay
* Starting httpd daemon
* Serving HTTP on 0.0.0.0 port 32405 ...
*****
*****
* Currently working on item:
* ***** Idle, waiting for work *****
* Press <ENTER> to quit
*****
Press <ENTER> to stop
■

```

Your Remote Indexer is now ready to work, and all you have to do now, is in PMS WebAdmin to refresh either a section, or an individual movie

Known issues

Version 0.0.0.5:

- **Not working with the remote indexer running on windows**
- When doing a refresh of a single TV episode, all episodes in that TV-Serie will be queued, if they are missing an index
- If this program has finished creating an index for a media, and uploaded it to your PMS, Automatic Index Generation on the PMS will be switched back on. It will be on for about 1 sec. If you happen to add a new media during that exact second, then the new media might be indexed by the PMS :-(