
 भारतीय जीवन बीमा निगम LIFE INSURANCE CORPORATION OF INDIA	System Administrator Document	 Hewlett Packard Enterprise
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HPE-LIC EDMS Project Enterprise Document Management System

Upload Files Organizer Utility Useful for arranging Pre-Upload and Post-Upload Files

For

Upload Desktop RHEL7 VM

Version: 2.3.15

**PREPARED BY
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1 Disclaimer

Upload Files Organizer utility is for arranging pre-upload and post-upload files useful for tracking, sharing and uploading on portal. This utility is meant for Upload machines VMS, having hostname p<docode>vl, Like p902vl in case of NANDED division. The machine used by system admins to upload Batches on regular basis. The utility will not delete or move any upload files on system. Instead it will create copy of file in a organized way so that it can be accessed easily in further requirements.

Note: Utility is meant to use on upload Desktop VM machine. Typically used by System Admins to upload Batch

2 Introduction

As a system Admin on site one have to preform many tasks. One of them is preserving batch upload files and sharing/upload files. Filling upload certificate information to finalize upload process for the Batch and shearing pre-upload and post-upload batch files to completed the upload process in tracking portal.

3 Purpose

Although maintaining required upload files backup looks simple action but organizing these multiple files related to batch upload process become vary hectic at times. We have to frequently clear upload point to reclaim space and remove possible clutter of batch uploading process. Some time we clear batch before taking required file backup on system. Later at some point we have to arrange those required upload files from scanning partner or re-extracting the batch DVD. Sometimes its difficult if the batch DVD is handovers to client authorities. The purpose is to remove possible problem and reduce time and energy to search and access these files.

The hierarchy of these files is pretty difficult as shown in below picture hence taking backup of them and organizing them difficult at-times.

Some sample location having files to to backup shown in below pictures

```
# tree -L 2 /UploadPoint
/UploadPoint
├── AI_902-95D\ -0313_01
│   ├── AI_902-95D\ -0313_01
│   ├── AI_902-95D\ -0313_01.TXT
│   ├── AI_902-95D\ -0314_01
│   ├── AI_902-95D\ -0314_01.TXT
│   ├── soft-90295D0313.csv
│   └── soft-90295D0314.csv
└── AI_902-98J\ -6119_01
    ├── AI_902-98J\ -6119_01
    └── AI_902-98J\ -6119_01.TXT

5 directories, 5 files
```

Figure 1: uploadpoint files hierarchy

```

# tree -L 4 /opt/OutputPoint/ | more
/opt/OutputPoint/
├── AI-902-130921-0554
│   ├── 902-9301-0145
│   │   ├── soft-90293010145.csv
│   │   └── Updated-AI_902-9301-0145_01.csv
│   ├── 902-9301-0146
│   │   ├── soft-90293010146.csv
│   │   └── Updated-AI_902-9301-0146_01.csv
│   └── 902-986\ -0554
│       ├── soft-9029860554.csv
│       └── Updated-AI_902-986\ -0554_01.csv
├── AI-ID-902-070322-0309
│   ├── 902-95H\ -0397
│   │   ├── soft-90295H0397.csv
│   │   └── Updated-AI_902-95H\ -0397_01.csv
│   └── 902-95H\ -0398
│       ├── soft-90295H0398.csv
│       └── Updated-AI_902-95H\ -0398_01.csv
├── AI-ID-902-200122-0394
│   └── 902-95H\ -0394
│       ├── soft-90295H0394.csv
│       └── Updated-AI_902-95H\ -0394_01.csv
├── AI-ID-902-311221-0306
│   └── 902-98J\ -0306
│       ├── soft-90298J0306.csv
│       └── Updated-AI_902-98J\ -0306_01.csv
├── AI-PD-280122-0421
│   └── 902-984\ -0421
│       ├── soft-9029840421.csv
│       └── Updated-AI_902-984\ -0421_01.csv
└── AI-PD-902-011221-0398
    └── 902-98J\ -0305
        └── soft-90298J0305.csv

```

Figure 2: outputpoint files hierarchy

Creating batch upload certificate through summary report after batch upload is even more difficult . User need find to the file then need to view it. As shown in below picture.

```

5323 root@p902vl λ (.../Doc/Prepare | By: Santosh Kulkarni |)
# ls -ltr /imagedata1/Logs/Upload | tail -n 20
-rw-r--r-- 1 root root 698 Mar 15 17:06 SummaryReport-AI_902-98J -6119_01.log
-rw-r--r-- 1 root root 399 Mar 15 17:12 ValidationError-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 1333225 Mar 15 17:12 Validation-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 399 Mar 15 17:14 ValidationError-AI_902-95D -0313_01.log
-rw-r--r-- 1 root root 1306003 Mar 15 17:14 Validation-AI_902-95D -0313_01.log
-rw-r--r-- 1 root root 864 Mar 15 17:14 UploadError.log
-rw-r--r-- 1 root root 13908 Mar 15 17:15 UploadXML.log
-rw-r--r-- 1 root root 9324 Mar 15 17:15 UploadStatus.log
-rw-r--r-- 1 root root 403 Mar 15 17:15 UploadError-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 163000 Mar 15 17:28 soft-90295D0314.txt
-rw-r--r-- 1 root root 699 Mar 15 17:28 SummaryReport-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 18829775 Mar 15 17:28 UploadXML-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 549493 Mar 15 17:28 UploadStatus-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 0 Mar 15 17:28 MasterCSV.txt
-rw-r--r-- 1 root root 0 Mar 15 17:28 SummaryReport.log
-rw-r--r-- 1 root root 160718 Mar 15 17:39 soft-90295D0313.txt
-rw-r--r-- 1 root root 698 Mar 15 17:39 SummaryReport-AI_902-95D -0313_01.log
-rw-r--r-- 1 root root 18681291 Mar 15 17:39 UploadXML-AI_902-95D -0313_01.log
-rw-r--r-- 1 root root 26357 Mar 16 10:47 UploadError-AI_902-95D -0313_01.log
-rw-r--r-- 1 root root 474569 Mar 16 10:47 UploadStatus-AI_902-95D -0313_01.log
5324 root@p902vl λ (.../Doc/Prepare | By: Santosh Kulkarni |)

```

Figure 3: Checking files at /imagedata1/Logs/Upload

4 Objectives

There is no default mechanism to get copy of all required files by its name/type. File requirement for portal and other things is different for as per batch type like file requirement in incremental batch are different than historical batch . All in all it required to align copy of all upload process related files in order to avoid further problem. And getting them organized makes jobs much easier and accurate. The process of organize these files keeps its original timestamps This helps to get upload information details quickly like date time , As we only have sort the files directory on time stamp. We will the useful list of files. Like most recent files on top in the list gets easiest access.

This is how the utility will organize upload files with preserved timestamps easy to view required file based on timestamp refer Summary report on above picture how they are organized in utility. And it will kept organizing file after every 15 Minuets.

```

5329 root@p902vl λ (.../upload_files_organizer/Upload_Summary_Reports | By: Santosh Kulkarni |)
# pwd ; ls -ltr | tail
/imagedata1/upload_files_organizer/Upload_Summary_Reports
-rw-r--r-- 1 root root 699 Mar 9 16:34 SummaryReport-AI_902-98J -0310_01.log
-rw-r--r-- 1 root root 696 Mar 10 16:41 SummaryReport-AI_902-95H -6170_01.log
-rw-r--r-- 1 root root 696 Mar 10 16:55 SummaryReport-AI_902-98J -6116_01.log
-rw-r--r-- 1 root root 698 Mar 11 16:55 SummaryReport-AI_902-98J -6117_01.log
-rw-r--r-- 1 root root 698 Mar 11 16:55 SummaryReport-AI_902-98J -6118_01.log
-rw-r--r-- 1 root root 700 Mar 14 17:23 SummaryReport-AI_902-986 -0579_01.log
-rw-r--r-- 1 root root 700 Mar 14 17:35 SummaryReport-AI_902-986 -0578_01.log
-rw-r--r-- 1 root root 698 Mar 15 17:06 SummaryReport-AI_902-98J -6119_01.log
-rw-r--r-- 1 root root 699 Mar 15 17:28 SummaryReport-AI_902-95D -0314_01.log
-rw-r--r-- 1 root root 698 Mar 15 17:39 SummaryReport-AI_902-95D -0313_01.log
5329 root@p902vl λ (.../upload_files_organizer/Upload_Summary_Reports | By: Santosh Kulkarni |)
#

```

Figure 4: view of summary report file organized by utility

5 Deployment of utility

This utility is small in size and packed with RPM format known as RedHat Package Manager as upload clients are using RHEL7.

5.1 Installation Upload Files Organizer Utility

Copy the package RPM File on upload client VM at any path. Navigate to the path from terminal and issue the following command.

```
# rpm -ivh upload_files_organizer-2.3.15-1.el7.noarch.rpm
```

```
5417 root@p902vl ~ (# ./2.3.15/RPM | By: Santosh Kulkarni |)
# ll
total 12
-rw-r--r-- 1 root root 9736 Mar 15 15:43 upload_files_organizer-2.3.15-1.el7.noarch.rpm
5417 root@p902vl ~ (# ./2.3.15/RPM | By: Santosh Kulkarni |)
# rpm -ivh upload_files_organizer-2.3.15-1.el7.noarch.rpm
Preparing...##### [100%]

=====
Utility: Upload Files Organizer | Version: 2.3.15
Developed by: Santosh Kulkarni
Mail: santosh.kulkarni4u@gmail.com
Cell: 9960708564
=====

Adding Cron Setup Entry for upload_files_organizer
Updating / installing...
 1:upload_files_organizer-2.3.15-1.e##### [100%]
Deployment of upload_files_organizer successful
Utility path is /imagedata1/utilities/upload_files_organizer
you can verify the deployment by issuing one of the following command from Terminal
# upload_files_organizer : command to copy regular upload files : cron is set for every 15 Min
# upload_files_organizer_bulk_files : command to copy bulk post upload files : cron is set for every hour

Below Listed Cron Added By upload_files_organizer RPM FILE
#Added By upload_files_organizer RPM FILE Remove manually in case of RPM Removal
*/15 10-18 1-6 * * cd /imagedata1/utilities/upload_files_organizer/bin/ && bash upload_files_organizer_cron_run_file.sh
5417 root@p902vl ~ (# ./2.3.15/RPM | By: Santosh Kulkarni |)
```

Figure 5: Deployment of upload_files_organizer utility

Checking upload_files_organize utility version and other information after installation with following command

```
# rpm -qi upload_files_organizer
```



```
# rpm -ql upload_files_organizer
Name       : upload_files_organizer
Version    : 2.3.15
Release    : 1.el7
Architecture: noarch
Install Date: Tuesday 15 March 2022 03:47:20 PM IST
Group      : edms
Size       : 16781
License    : GPL
Signature  : (none)
Source RPM : upload_files_organizer-2.3.15-1.el7.src.rpm
Build Date : Tuesday 15 March 2022 03:39:55 PM IST
Build Host : p902vl
Relocations : (not relocatable)
Packager   : Santosh Kulkarni
URL        : https://gitlab.com/santosh2712/upload_files_organizer.git
Summary    : upload files organizer useful for organizing and upload related soft and
            TXT files
Description :
This is upload files organizer useful for organizing and upload related files for record. Useful for post upload activities portal update and required sharing with client and other team members for further processing. It will take backup of files on every specified interval
```

Figure 6: Upload_files_organizer utility version information

User can check the files installed by utility with the following command.

```
# rpm -ql upload_files_organizer
```

```
5764 root@p902vl λ (/UploadPoint | By: Santosh Kulkarni |)
# rpm -ql upload_files_organizer
/etc/cron.hourly/upload_files_organizer_bulk_files
/imagdata1/utilities/upload_files_organizer
/imagdata1/utilities/upload_files_organizer/Logs
/imagdata1/utilities/upload_files_organizer/README_upload_files_organizer.txt
/imagdata1/utilities/upload_files_organizer/bin
/imagdata1/utilities/upload_files_organizer/bin/upload_files_organizer
/imagdata1/utilities/upload_files_organizer/bin/upload_files_organizer_bulk_files
/imagdata1/utilities/upload_files_organizer/bin/upload_files_organizer_cron_run_file.sh
/imagdata1/utilities/upload_files_organizer/conf
/imagdata1/utilities/upload_files_organizer/conf/upload_path.conf
/imagdata1/utilities/upload_files_organizer/doc.txt
/usr/local/bin/upload_files_organizer
/usr/local/bin/upload_files_organizer_bulk_files

5764 root@p902vl λ (/UploadPoint | By: Santosh Kulkarni |)
#
```

Figure 7: Checking installed files by Utility

Note: Following Directory structure will be created after first run of upload_files_organizer_bulk_files and upload_files_organizer command at /imagdata1/upload_files_organizer location

- Soft_csv_From_OutputPoint
- Soft_csv_From_UploadPoint
- Soft_txt_From_UploadReport
- TXT_From_UploadPoint
- Updated_csv_From_OutputPoint
- UploadStatus_Report
- Upload_Summary_Reports

- Upload_Validation_Reports
- UploadXML_Reports

5.2 Utility default settings and conf file location

Once utility is deployed. User need to add correct UploadPoint and OutputPoint path in conf file in case if they are not using default UploadPoint and OutputPoint location at /opt.

In simple word Utility will look for Pre-upload files of UploadPoint in /opt/UploadPoint and for Post-upload OutputPoint files in /opt/OutputPoint location. Modify the same path in /imagedata1/utilities/upload_files_organizer/conf/upload_path.conf file in case you are not using default location. Check below table for more information.

Upload Files Organizer default settings			
TO COPY Files	Path Variable Name	Utility Default Path	Conf file Location
UploadPoint	src_UploadPoint	/opt/UploadPoint	/imagedata1/utilities/upload_files_organizer/conf/upload_path.conf
OutputPoint	src_OutputPoint	/opt/OutputPoint	/imagedata1/utilities/upload_files_organizer/conf/upload_path.conf
UploadReport	src_UploadReport	/UploadReport	/imagedata1/utilities/upload_files_organizer/conf/upload_path.conf

Figure 8: Upload_files_organizer utility default path setting

6 Utility Usage and commands

Commands provided by utility and their use case as per requirement.

6.1 upload_files_organizer command usage

Upload_files_organizer utility will add the command #upload_files_organizer to the path. User can use this command to copy regularly required pre-upload and post-upload file. As shown in below picture

```
5701 root@p902vl λ (~ | By: Santosh Kulkarni |)
# upload_files_organizer
Conf file /imagedata1/utilities/upload_files_organizer/conf/upload_path.conf is loaded
-----
All files will be saved in /imagedata1/upload_files_organizer
-----
=====
Utility: Upload Files Organizer | Version: 2.3.15
-----
Developed by: Santosh Kulkarni
-----
Mail: santosh.kulkarni4u@gmail.com
=====
Copying soft-*csv files from /opt/UploadPoint
Copying *.TXT files from /opt/UploadPoint
-----
Copying soft*.csv files from /opt/OutputPoint
Copying Updated-*.csv files from /opt/OutputPoint
-----
Copying soft*.txt files from /UploadReport
Copying SummaryReport-*.log files from /UploadReport
-----
Copying soft-*.txt files from /imagedata1/Logs/Upload
Copying SummaryReport-*.log files from /imagedata1/Logs/Upload
-----
5702 root@p902vl λ (~ | By: Santosh Kulkarni |)
#
```

Figure 9: Usage of upload_files_organizer command

However it is not required to use this command as utility will add a cron which runs on every 15 Minutes on working days (Mon to Fri) between 10 to 18 to Copy required file. User can modify this cron as per their requirement.

```
5703 root@p902vl λ (~ | By: Santosh Kulkarni |)
# crontab -l | grep upload_files_organizer
#Added By upload_files_organizer RPM FILE Remove manually in case of RPM Removal
*/15 10-18 1-6 * * cd /imagedata1/utilities/upload_files_organizer/bin/ && bash upload_files_organizer_cron_run_file.sh
5703 root@p902vl λ (~ | By: Santosh Kulkarni |)
#
```

Figure 10: Crontab for Upload_files_organizer command

6.2 upload_files_organizer_bulk_files command usage

The command `upload_files_organizer_bulk_files` is created to copy of bulky post-upload files `uploadstatus*.log`, `uploadXML*.log` and `Validation*.log` files as they are big in size and they are not required for portal and any other activity so they are kept in separate command. To keep this in separate command will minimize the system load and make it efficient in memory and cpu usage. Command usage is as follows.

```
5702 root@p902vl λ (~ | By: Santosh Kulkarni |)
# upload_files_organizer_bulk_files
Conf file /imagedata1/utilities/upload_files_organizer/conf/upload_path.conf is loaded
-----
All files will be saved in /imagedata1/upload_files_organizer
-----
=====
Utility: Upload Files Organizer | Version: 2.3.15
-----
Developed by: Santosh Kulkarni
-----
Mail: santosh.kulkarni4u@gmail.com
-----
-----
Copying UploadStatus-*.log files from /imagedata1/Logs/Upload
Copying UploadXML-*.log files from /imagedata1/Logs/Upload
Copying Validation-*.log files from /imagedata1/Logs/Upload
-----
5703 root@p902vl λ (~ | By: Santosh Kulkarni |)
```

Figure 11: Use of `upload_files_organizer_bulk_files` command

However user don't need use this command regularly. As utility will run this command after every 1 hour. If user want to copy files on immediate basis user can use this `#upload_files_organizer_bulk_files` command to copy `uploadstatus*.log`, `uploadXML*.log` and `Validation*.log` files.

7 upload_files_organizer utility uninstalling/removal

The user can uninstall/remove `upload_files_organizer` utility with simple process. As utility is using RPM RedHat Package manager to install user need to have superuser privileges to uninstalling/removal. Login as root on upload VM and issue the following command.

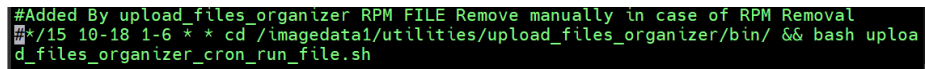
```
# rpm -evh upload_files_organizer
```

```
# rpm -evh upload_files_organizer
Preparing... ##### [100%]
Cleaning up / removing...
1:upload_files_organizer-2.3.15-1.e##### [100%]
5726 root@p902vl λ (../upload_files_organizer/Logs | By: Santosh Kulkarni |)
#
```

Figure 12: uninstalling/removal `upload_files_organizer` utility

Utility will remove files installed by utility itself. User need to comment or remove only one cron installed by utility as shown in below picture

issued command "**# crontab -e**" and comment/remove cronline as shown in below picture



```
#Added By upload_files_organizer RPM FILE Remove manually in case of RPM Removal
#*/15 10-18 1-6 * * cd /imagedata1/utilities/upload_files_organizer/bin/ && bash upload_files_organizer_cron_run_file.sh
```

Figure 13: cron removal upload_files_organizer utility