Oracle Warehouse Management Cloud

Scheduled Job Setup

Release 26A

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Contents

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2 How to Set-up Scheduled Jobs with Job Type

How to Set-up Scheduled Jobs with Job Types

This document provides details of setting up a Scheduled Job with different Job Types for Oracle Warehouse Management Cloud.

Mandatory Fields

This table lists the Mandatory fields required to run the various scheduled jobs:

Mandatory Fields	Required Action from the User
Job Number	The job number is automatically created when you save the scheduled job.
Job Type	Select the job type.
Schedule Name	Enter a name for the schedule job you are creating.
Enable	Must be check in order to run
Schedule Type	Can be set up to be Interval or Crontab
If set up as Interval	You are required to enter Every and Period field.
If set up as Crontab	You are required to enter Minute, Hour, Day of the week, Day of the Month, Month of the year, where: • Minute – 1 to 60 seconds • Hour - 0-24 hours • Day of the week - 0 to 6 (Sunday=0) • Day of the month - 1 to 31 • Month of year - 1 to 12 **Note:** Crontab field entries should be separated by a comma. Enter an asterisk in the field to indicate daily/monthly/annual jobs. **Note:** The Crontab schedule type configuration considers UTC time zone.

Crontab Schedule Type Examples

A Crontab Schedule Type with the following setup will run at 12:30 am daily all year:

- Minute: 30

- Hour: 0
- Day of the week: *
- Day of the month: *
- Month of year: *

This Crontab Schedule Type will run at 5pm weekly on Mondays:

- Minute: 0
- Hour: 17
- Day of the week: 1
- Day of the month: *
- Month of year: *

The Scheduled Job consists of the following different Job Types, which are explained in the following sections:

Extract Job Types

Extract All Job Type

Generating Job Type

Run Job Type

SFTP GET and PUT

Process Input Files

Calculating Storage Billing by Cube for Locations

Purge Job Type

Auto-Verify IB Shipment

Extract Job Types

The Extract Job Type extracts data from the source system and process to generate the record in required format.

The following table lists different Extract Job Types and their job parameters to be set:

Extract Job Type

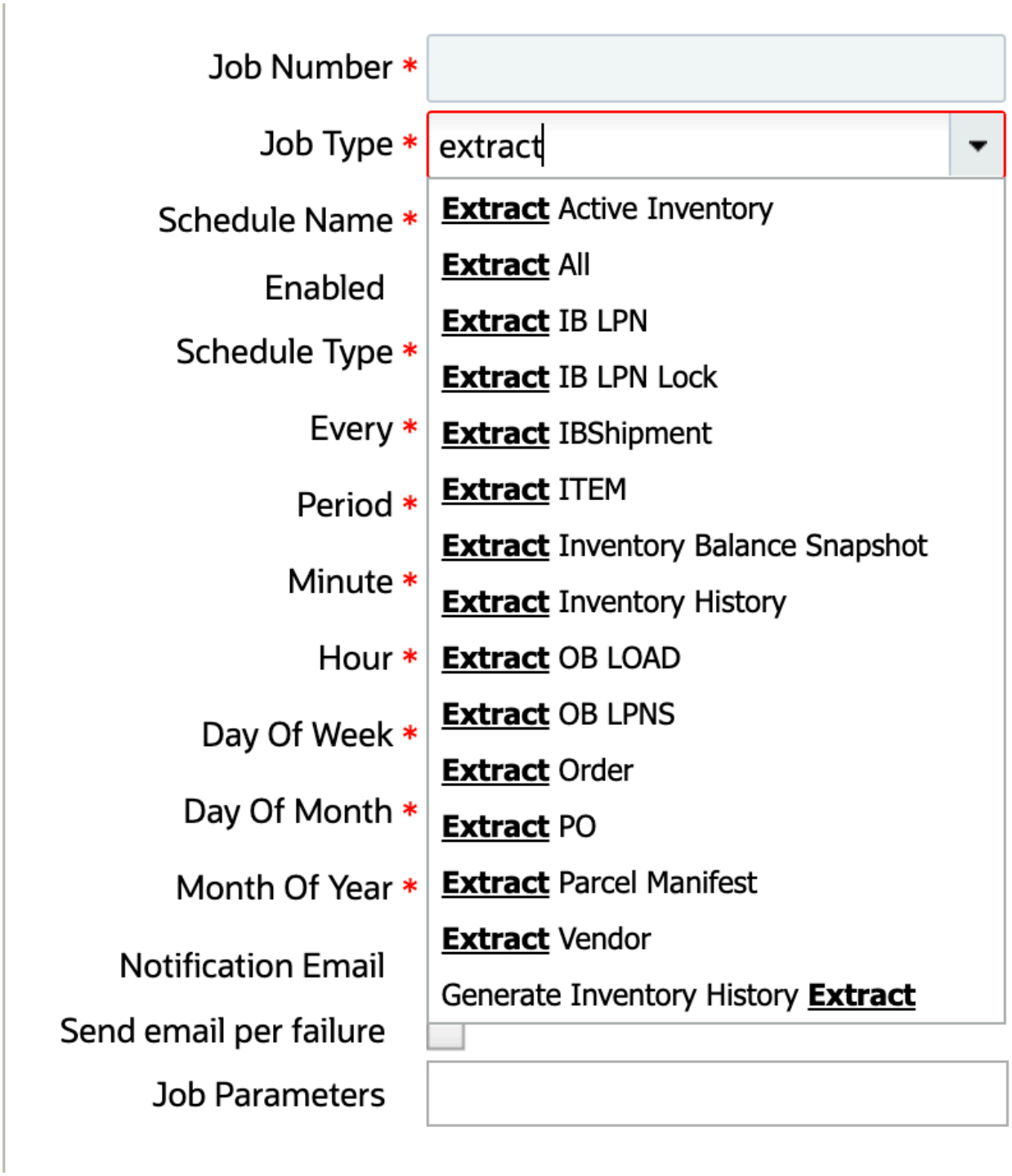
Job Type	Description
Extract Order	Extracts information pertaining to the order from the source database such as Order number, status, destination information and shipment details.
Extract Inventory Balance Snapshot	
Extract IBLPN	Extracts information of the inventory received in the warehouse.

Job Type	Description
Extract IB Shipment	Extracts information about the inventory shipment received in the warehouse.
Extract Vendor	Extracts vendors details such as name, address, phone number and so on.
Extract PO	Extracts information about the purchase order and relevant details such as vendor and customer information, shipment details, and order quantity.
Extract OBLPNS	Extract information of the inventories that are shipped from the warehouse from source system.
Extract IB LPNS LOCK	Extracts information of the inbound LPNs that has locks applied on them.
Extract Inventory History	Extracts inventory history records for the orders.
Extract Active Inventory	Extracts information about every active inventory or items in the warehouse.
Extract Parcel Manifest	Extracts manifest information such as carrier, trailer number, schedule departure and delivery information.
Extract OB LOAD	Extracts information of an outbound load and also captures information such as externally planned load number, order number, route number and destination company.
Extract Item	Extracts header information about item(s) from the source system.

To setup the job type, do the following:

1. From the Scheduled Jobs screen, click **Create** (+).
2. Enter the mandatory field. Refer to mandatory section for field description.

3. Select the specific Extract Job Type from the Job Type drop-down.



4. Enter the Job Parameters. Refer to the job parameter section for field descriptions.
5. Click **Save** or **Save/New**.

For more information, please refer to the OWM-ScheduleJob-v1-R21C.xlsx file.

Job Parameter

This table lists the Job Parameter field required to run the Scheduled job:

Job Parameter

Job Parameter	Required Action from the User
Username	Name of the user responsible to run to schedule job within the facility/company.
Start hours back	Enter the start hour period you want the data to be extracted. For example, Let's say system clock is **02:00** AM of 05 of July, 2009, you set the interval for Every =1, Period = Hour and Start Hours back = 3, then the schedule job is run every **1** hour and the system starts extracting all the modified data from the start hour period (3 hours behind from the system's clock, i.e., **23:00** PM of 04 of July, 2009) till the stop hour period set in the job parameter. **Note:** The recommended clock is set to 24 hours format.
Stop hours back	Enter the stop hour period until when you want the data to be extracted. For example, Let's say system clock is **02:00** AM of 05 of July, 2009, you set your interval Every =1, Period = Hour and Stop hour back =1, then the schedule job is run every **1** hour and the system stops extracting all the modified data till the stop hour period (1 hour from the system's clock, i.e., **01:00** AM of 04 of July, 2009). **Note:** Stop hours must not be greater than Start hours. An error is thrown "Stop time cannot be before start time", and the data will not be generated.
Delimiter	Users can use this delimiter to seprate the data fields. By default, “|” is set as delimter. User’s can define their own delimited for example, *.
Header Required	Whether we populate a header row at the beginning of the file. Valid value ("y" or "n").
Header Prefix	Enter the prefix of your choice. For example, Header prefix = ABC. Then the output generated will have [ABC]|[Comp]|[FAC]|[ORD] **Note:** The system has default prefix defined. If the header prefix is left blank, system uses the default prefix to generate the file in the following format: {Hdrprefix}{comp}{fac}_{user}_{from_time}_{to_time} For information on the default prefix, refer *Default Prefix* .

Job Parameter	Required Action from the User
Detail Prefix	Enter prefix of your choice. The file format is as follows: {dtlprefix}{comp}{fac}_{user}_{from_time}_{to_time}
Now	This is for internal use only.
Debug	This is for internal use only.

Default Prefix

These are system coded prefixes that are used by default while generating the output file.

Note: You can define your own prefix by defining it in the parameter fields. If no value is entered in the header/detail prefix field, system automatically uses the following default values.

Default Prefix for Extract Schedule Job

Job Type	Header	Detail
Extract Order	ORH	ORD
Extract IBLPN	IBH (iblpn header)	IBD (iblpn detail)
Extract IB Shipment	ISH (Ib shipment header)	ISD (ib shipment detail)
Extract Vendor	VEN	-
Extract PO	POH (for PO header)	POD (for PO detail)
Extract OBLPNS	LPH (oblpn header)	LPD (oblpn detail)
Extract IB LPNS LOCK	IBLPN_LOCK	-
Extract Inventory History	XIHT	-
Extract Active Inventory	ACT	-
Extract Parcel Manifest	OPS (header)	OPL (detail)
Extract OB LOAD	OBS (header)	OBL (detail)
Extract Item	ITM	-

Extract All Job Type

After selecting the **Extra All** job, you need to specifically enter the following job parameters:

- Facility Code : Facility code id
- Company Code: Company code id
- Start day: example 1 for yesterday, 7 for seven days ago
- Stop day: example 1 for yesterday, 7 for seven days ago

Note: If you want to get all Extract data, you must set up a **Copy Files** Job Type. Refer to *Copy Files Job Type* for more information

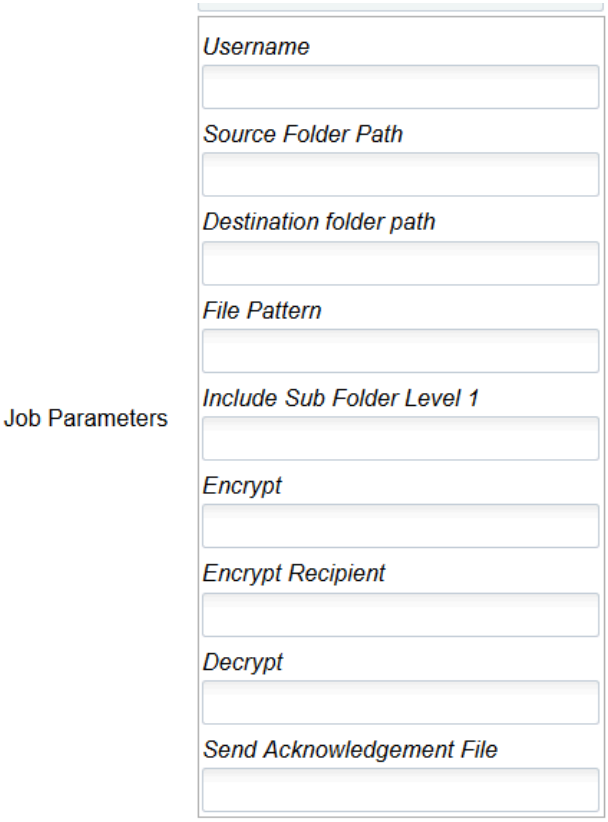
Copy Files Job Type

Oracle WMS Cloud allows you to copy all of the fields from the source folder path to the destination path folder provided in the job parameter.

To set up the scheduled job type, do the following:

1. From the Scheduled Jobs screen, click Create (**+**).

2. Select Copy Files from the Job Type drop-down.



3. Populate the rest of the required fields.
4. Click **Save**.

Copy Files Job

Job Parameter	Required Action from the User
Username	Valid user name for the facility.
Source Folder Path	$LGF_FILES_HOME/interfaces/<company_code>/<fac_code>/output/ETL Replacing <company_code> with the actual company code and the <fac_code> with the actual facility code.
Destination Folder Path	Set up by client.
File Pattern	If you have only set up one of the extract and will like to copy this info, then the value should be: o Order > ORH (for order header) ORD (for order dtl) OR* (for both) o IBLPN > IBH (iblpn header) IBD (iblpn detail) IB* (for both) o IB Shipment > ISH (Ib shipment header) ISL (ib shipment detail) IS* (for both) o Vendor > VEN (no detail)

Job Parameter	Required Action from the User
	○ PO > POH (for PO header) POD (for PO detail) PO* (for both) ○ OBLPNS > LPH (oblpn header) LPD (oblpn detail) LP* (for both) ○ IB LPNS LOCK > IBLPN_LOCK (no detail) ○ Inventory History > XIHT ○ Active Inventory > ACT_INV ○ Parcel Manifest > OPS (header) OPL (detail) OP*(for both) ○ OB LOAD > OBS (header) OBL (detail) OB*(for both) ○ Item > ITM (no detail) **Note:** To set more than 1 copy file, you need to set up the value to *.
Include Sub Folder Level 1	Not supported. Do Not Use.
Encrypt	Not supported. Do Not Use.
Encrypt Recipient	Not supported. Do Not Use.
Decrypt	Not supported. Do Not Use.
Send Acknowledgement file	Not supported. Do Not Use.

Generating Job Type

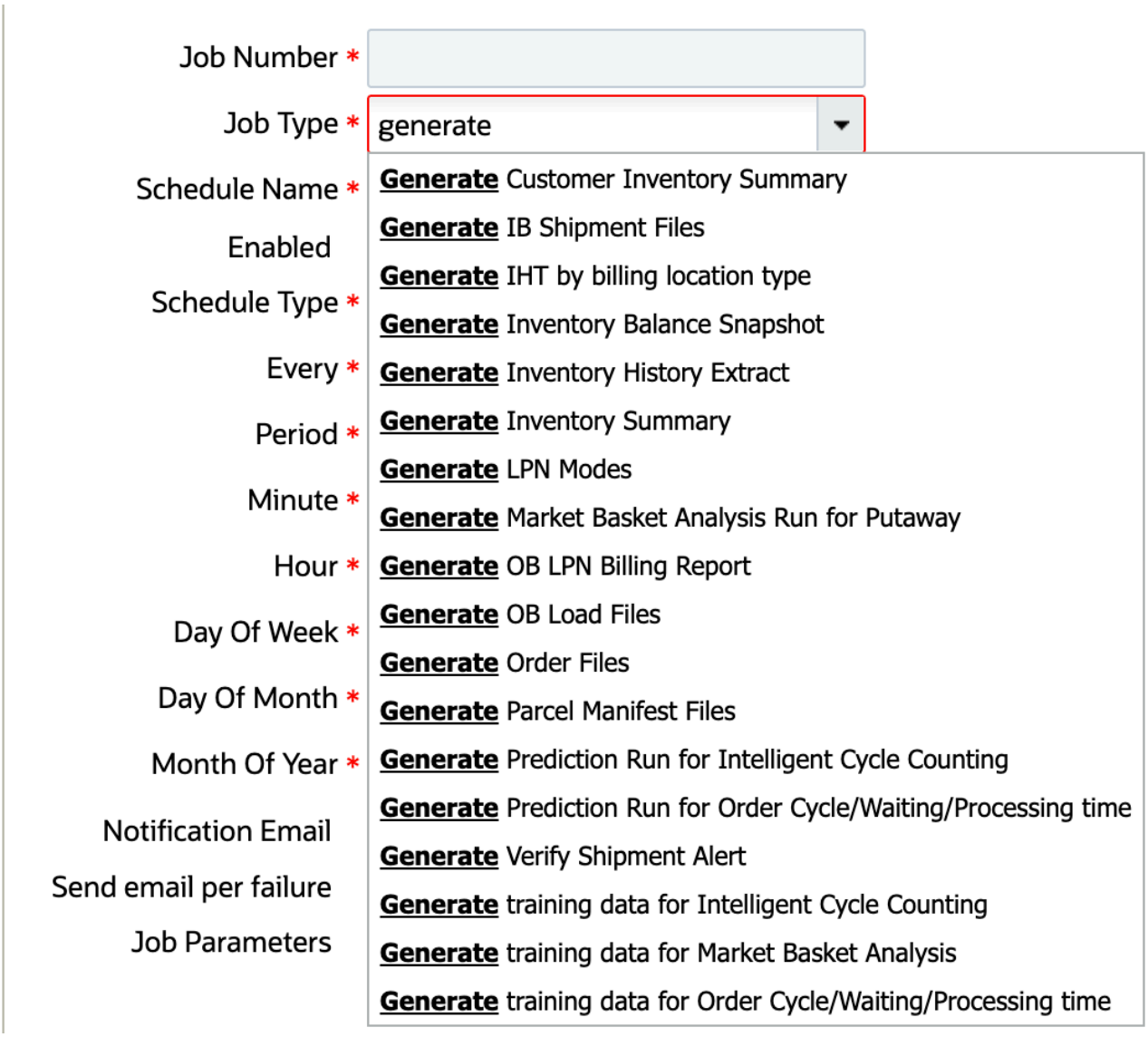
Oracle WMS Cloud provides an ability in the system to generate output reports for the following job types via Generate Schedule Job:

- Generate Inventory Summary
- Generate Market Basket Analysis Run for Putaway
- Generate Order Files
- Generate LPN Modes
- Generate OB LPN Billing Report
- Generate Inventory History Extract
- Generate Verify Shipment Alert
- Generate Custom Inventory Summary
- Generate IB Shipment Files
- Generate OB Load Files
- Generate Parcel Manifest Files
- Generate IHT by billing location type

- Generate Inventory Balance Snapshot
- Generate Prediction Run for Intelligent Cycle Counting
- Generate Prediction Run for Order Cycle/Waiting/Processing time
- Generate Training Data for Intelligent Cycle Counting
- Generate Training Data for Market Basket Analysis
- Generate Training Data for Order Cycle/Waiting/Processing time

To set up the Generate job type, do the following:

1. From the Scheduled Jobs screen, click Create (**+**).
2. Select the specific Generate Job Type from the Job Type drop-down.



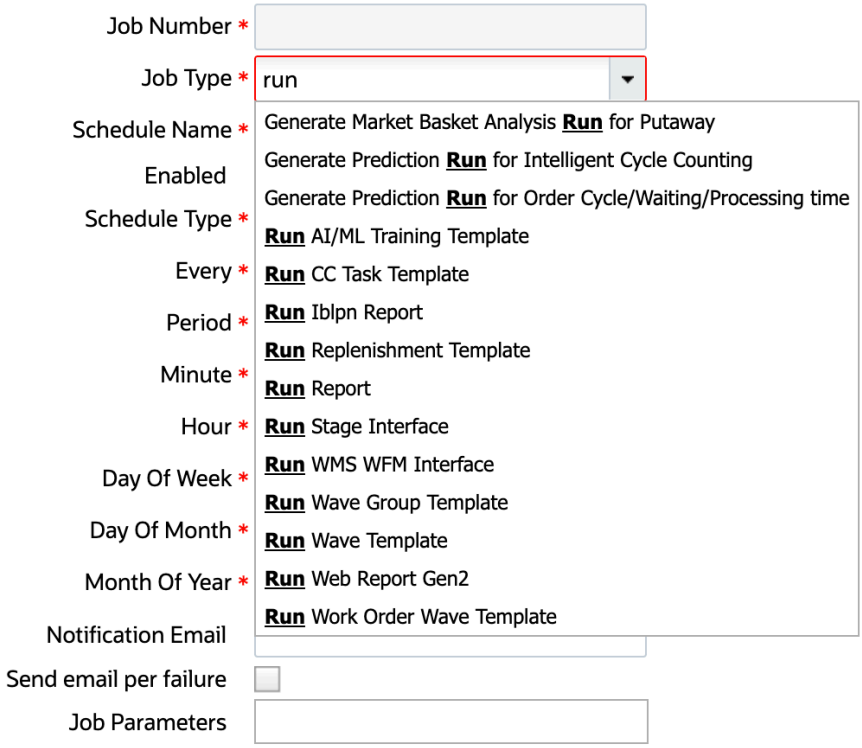
3. Enter the mandatory fields for the selected job type. Refer to the *How to Set-up Scheduled Jobs with Job Types* section for field descriptions.
4. Configure the respective parameters for the selected Job Parameter – Refer to OWM-ScheduleJob-v1-R21C.xlsx file

Run Job Type

Oracle WMS Cloud provides you an ability to execute and run a template based using Run Job Type:

To set up the Run job type, do the following:

1. From the Scheduled Jobs screen, click Create (+).
2. Select the specific Run Job Type from the Job Type drop-down.
3. Enter the mandatory field for selected job type. Refer to the *How to Set-up Scheduled Jobs with Job Types* section for field descriptions.
4. Configure the respective parameter for the selected Job Parameter – Refer to OWM-ScheduleJob-v1-R21D.xlsx file.



Run Scheduled Job Type

Run Stage Interface

This scheduled job is used to interface input files into the system. These interface files consist of data (.csv) that are input to WMS, processed, and updated in the system.

Run Stage Interface

Job Parameter	User Action
Load Files	Set the value to **True**, if you want the interface files to be validated first in the stage table and then to master table.
process_stage_tables_flag	Set the value to True to process and validate the data of the input interface before processing to master table.
Stage Entity	Enter the entity name for which you wan to upload the interface file. For example, Item, Purchase Order.
File Pattern/List	If you have only set up one of the extract and will like to copy this info, then the value should be: * Order - ORH (for order header) ORD (for order dtl) * IBLPN - IBH (iblpn header) IBD (iblpn detail) * IB Shipment - ISH (Ib shipment header) ISL (ib shipment detail) * Vendor - VEN (no detail) * PO - POH (for PO header) POD (for PO detail) * OBLPNS - LPH (oblpn header) LPD (oblpn detail) * IB LPNS LOCK - IBLPN_LOCK (no detail) * Inventory History - XIHT * Active Inventory - ACT_INV * Parcel Manifest - OPS (header) OPL (detail) * OB LOAD - OBS (header) OBL (detail) * Item - ITM (no detail) * If you have set up more than 1, and need to copy them you need to set up this value to *
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured.
Interface Folder Path	Enter the directory path from where the interface file is fetched.

Run AI/ML Training Template

This scheduled job allows you to fully automate their AIML Model Training process. This applies for both the Intelligent Cycle Counting and Order Processing/Cycle/Waiting Time metrics.

Run AI/ML Training Template

Job Parameters	User Action
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** f the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.
AI/ML Training Template	Choose the desired template from user-friendly AIML Training Template UI.
AI/ML Metric	Select the template that best suits your preferences and requirements.

Run Wave Template

This scheduled job runs the wave template mentioned in the job parameter on periodic timelines specified in a defined interval of time.

Run Wave Template

Job Parameters	User Action
Wave Template	Enter the valid wave template.
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that doesn't have the eligibility for that particular facility/company, then the job fails.
Cronname	Provides a logical name for this particular job. Since these are schedule jobs, there are no direct way to stop a particular job from running (once). There's a facility parameter: DISABLE_WAVE_CRON_ONCE which is a PIPE (|) separated list of these ""cronnames"". If the cronname of the current job is in this facility parameter, the next execution of this JOB will be halted and this cron-name will be removed from facility parameter. The second execution will continue as before. This is typically used in production situations where there is an immediate need to disable one particular wave without affecting the rest of the schedule. Simply providing a cronname with no entry in facility parameter has no effect.

Run Work Order Wave Template

This scheduled job runs the work order template mentioned in the job parameter on periodic time lines specified in the required interval.

Run Work Order Wave Template

Job Parameters	User Action
Wave Template	Enter the work order template.
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that doesn't have the eligibility for that particular facility/company, then the job fails.
cronname	Provides a logical name for this particular job. Since, these are schedule jobs, there is no direct way to stop a particular job from running (once). There is a facility parameter: DISABLE_WAVE_CRON_ONCE which is a PIPE (|) separated list of these "cronnames". If the cronname of the current job is in this facility parameter, the next execution of this JOB will be halted and this cronname will be removed from facility parameter. The second execution will continue as before. This is typically used in production situations where there is an immediate need to disable one particular wave without affecting the rest of the schedule. Providing a cronname with no entry in facility parameter has no results.

Run Replenishment Template

This scheduled job executes the replenishment wave template for the configured time interval.

Run Replenishment Template

Job Parameters	User Action
Wave Template	Enter the wave template which you want the replenishment to run. **Note:** This is a required field. And supports running schedule job for single wave template only.
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.

Job Parameters	User Action
Cronname	Provides a logical name for this particular job. Since these are schedule jobs, there is no direct way to stop a particular job from running (once). The facility parameter: DISABLE_WAVE_CRON_ONCE which is a PIPE (|) separate the list of these ""cronnames"". If the cronname of the current job is in this facility parameter, the next execution of this JOB will be halted and this cron-name will be removed from facility parameter. The second execution will continue as before. This typically is used in production, where there is an immediate need to disable one particular wave without affecting the rest of the schedule. Providing a cron-name with no entry in facility parameter has no results.

Run Report

This scheduled job generates the reports configured in the report instances UI for a defined interval of time. The run report supports only csv format.

Run report

Job Parameters	User Action
Report Name	Enter the report name that you want the scheduler to run, configured in the Report Instance UI.
WMS Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.

Run CC Task Template

This scheduled job is used to run the Cycle Count (CC) task without manually running the cycle count template.

Run CC Task Templet

Job Parameters	User Action
task_creation_template_descr	Enter the description of cycle count task creation. **Note:** The template type should be of Cycle Count (CC) only.
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured.

Job Parameters	User Action
	Note: If the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.

Run Wave Group Template

This scheduled job is used to execute the wave group template for a configured time interval. Only one wave group template should be configured. Each wave group template might consist of one or more wave templates.

Run Wave Group Template

Job Parameters	User Action
Wave Group Name	Enter the wave group name.
Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.
Trigger File Path	Enter a valid file path. Usually this is a file in the client sftp folder. If provided, the scheduled job will wait for "wait minutes for trigger" to find the file before starting the actual wave group. The trigger file mechanism allows client to control exactly when the wave group runs. For e.g. the client may choose the drop the file ONLY after all their orders are successfully interfaced into OCWMS.
Wait Minutes for Trigger	Enter the number of minutes for the system to wait for finding the trigger file. At the end of this wait period the system will behave as per the "Run at end of Wait" parameter. Used only when a trigger file path is specified.
Run at end of Wait	Set the value to True if you want the system to run the wave after the wait period mentioned in the above field is over and the trigger file is still not found. Otherwise, set the value to False and the system does not start the waving logic at the end of wait. By default, the value is set to False. Used only when a trigger file path and wait minutes for trigger is specified.
Trigger Contains Last Order	Valid values are y/yes or n/no. Regardless of value, it is effective only when Trigger File Path and Wait Minutes for Trigger are enabled. If this value is y/yes the system expects to find an order number inside rhe file mentioned in trigger path. The system then waits for "wait minutes for trigger" or until this order is found within WMS (whichever is earlier). At the end of wait, if the order is found the wave will executed. If the order is not found the wave will not execute.

Job Parameters	User Action
	Note: Run at end of wait parameter does NOT apply when this is effective.

Run Iblpn Report

This schedule job generates the IBLPN report for every defined interval of time.

Run IBLPN Report

Job Parameters	User Action
WMS Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.
Delimiter	You can use this delimiter to seperate the data fields. By default, | is set as delimiter. You can define your own delimiter. For example: , (comma)
Status	You can define the status of the IBLPN that needs to included in the IBLPN report. By default, IBLPNs in status 10 to 30 is included. You can define IBLPN status code (seperated by comma) to be included in the report. For example: 10,40,30 The supported values are 10,30,40,50,5,7

Run WMS WFM Interface

This scheduled job moves data from WMS Activity (WMS) tables to WMS Activity Track (WFM tables), and then validates the user, SKU Line, and WMS transaction on each record before consolidating and moving the records to Daily Activity Track (WFM tables).

Run WMS WFM Interface

Job Parameters	User Action
WMS Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured.
Number of days	Set the number of days. This parameter would be used by interface to only process (or reprocess) records that fall in the range between current date and (Number of Days = x) past days. An extra day is added to "Number of Days"

Job Parameters	User Action
	to take into account any user transaction that could have occurred over midnight traversing between two days. For example, if current date is July 7 and "Number of Days" has been set as 10, the interface should only process/reprocess records that have "Begin time stamp" later than or equal to June 27th (July 7 - 10 days). **Note:** The max number of days allowed on this parameter would be 60. Leaving the field unpopulated will default the value to 7.

Run Web Report Gen-2

This scheduled job generates the web report for every defined interval of time. The output formats supported are CSV/PDF.

Note:

- It is recommended that you use the Output interface for generating Run Web Reports Gen 2. You do not need to use SFTP PUT.
- Scheduled Job uses an internal directory path "$LGF_FILES_HOME/interfaces/<COMPANY_CODE>/<FACILITY_CODE>/output/reports" to generate the reports for which the output interface is configured.

Run Web Report Gen-2

Job Parameters	User Action
Web report path	Enter the path of the report that you want to execute. For example: <Folder>/<sub-folder>/<report name>"
WMS Username	Enter a valid wms username. The username provided should be eligible for the facility/company where the scheduled job is configured. **Note:** If the schedule job is run by providing an invalid username or blank value or username name that does not have the eligibility for that particular facility/company, then the job fails.
Web report format	Enter the format you want the output file. For example, csv and pdf. **Note:** Enter the format in lower case.

SFTP GET and PUT

Oracle Warehouse Management (WMS) Cloud is discontinuing the SFTP site hosted by Oracle WMS Cloud (LogFire). The date for this shutdown is May 31, 2019. This was originally announced to customers last year. This document details alternatives that are available.

Prior to this change, customers were able to directly connect to the Oracle WMS Cloud SFTP site using their own username and password, to transfer input files for loading into the WMS or extracting output files. If you currently do not use this feature, then you can ignore this notification as it does not impact you.

Oracle recommends REST WebServices as the path forward for integration. This provides a much more real time integration, eliminates unnecessary scheduled jobs, and simplifies configuration. All interfaces available earlier via SFTP are available via REST WebServices. Please review the *Integration API Guide* for details. You can contact support if you do not have this document.

Customers that are not able to immediately switch to web services, have the option to host their own SFTP server (either their own or a third party one they can purchase on their own), and to transfer files into WMS and from WMS into their site. New scheduled jobs for this purpose were made available as of patch bundle 4a for version 18C and 9.0.0.

This document provides examples to show customers what needs to be configured, so they can get files from their new remote SFTP or put files from Oracle WMS Cloud to their new remote SFTP. In order to accomplish this, the new scheduled jobs have been created to allow you to either pull or get files:

- SFTP GET Files
- SFTP PUT Files
- Multi Facility - SFTP Put Files

These jobs are designed to be configured in addition to your current input interface processing jobs and output interface configuration. No changes to your input interface processing job should be required normally. For output interfaces, there is a recommended change that will be useful to do since it will be more efficient and faster (see Recommended Change in *SFTP PUT Files*) for more details.

To set up the schedule job type, do the following:

1. From the Scheduled Jobs screen, click Create (**+**).
2. Populate all required fields and select the specific SFTP Job Type from the Job Type drop-down.

Scheduled Job Configuration

The following example explains the configuration needed to set up these two new jobs.

For the purpose of this example we will pretend we have the following information:

- Current Oracle WMS Cloud SFTP information is:
  - Host: sftp://sftp.wms.ocs.oraclecloud.com

    Username: XXYYZZABC

    Password: ABCXXYY!

- New Remote customer provided SFTP information is:
  - Host: sftp://clienthost.com

    Username: qwertyuiop

    Password: asdfghjkl!

SFTP GET Files

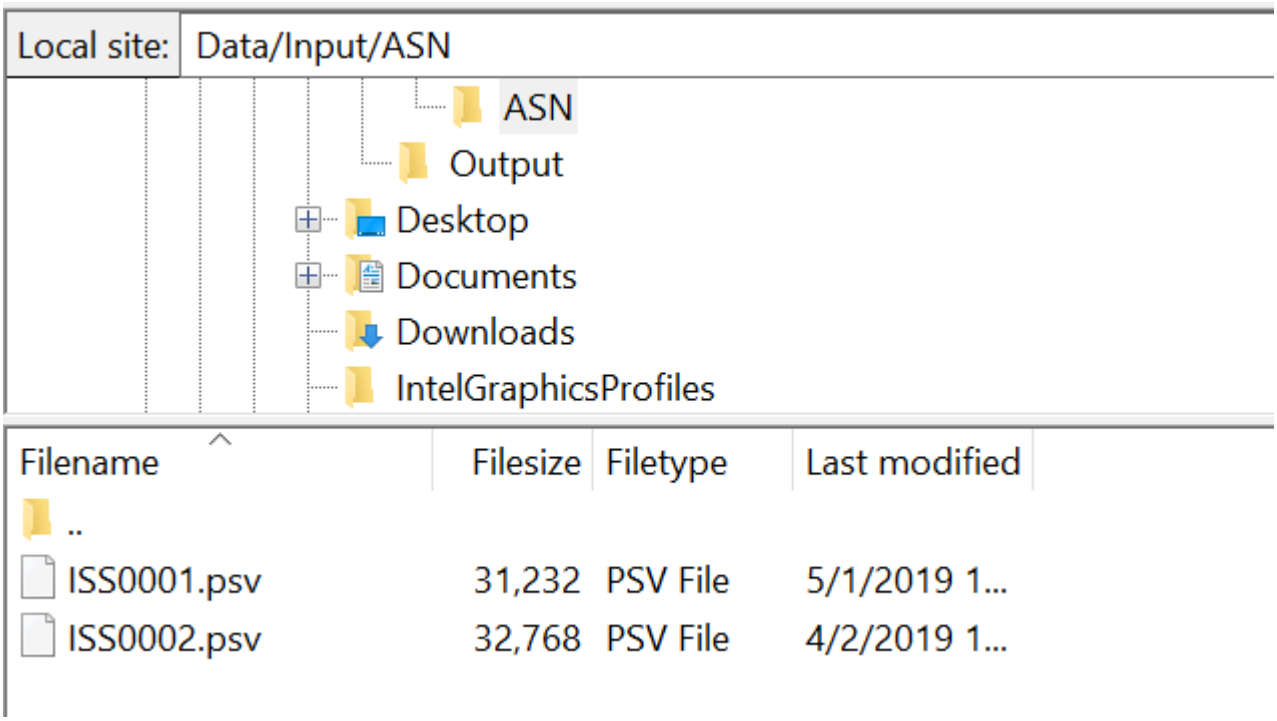
The SFTP GET Files job was created so customers have the ability to “drop” files to Oracle WMS Cloud site. It can be used for Inbound Interfaces, including Purchase Orders, Advance Shipment Notices, Orders, etc.

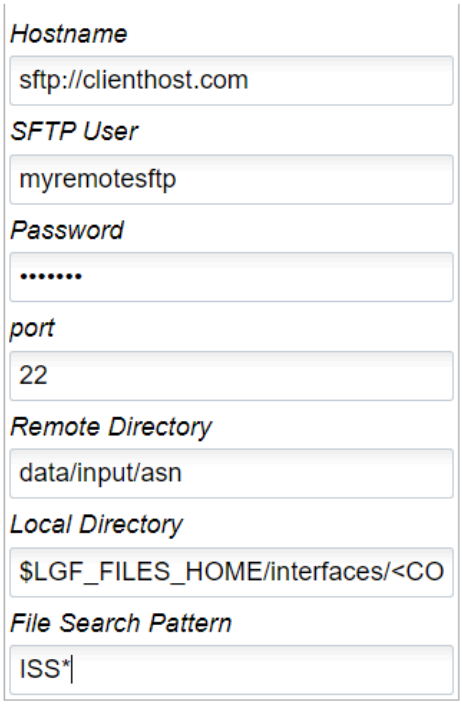
Example:

Moving Advance Shipment Notice (ASN) from your remote SFTP into your local SFTP.

You will place your ASN file in your new remote SFTP folder that you have assigned for your ASNs.

/Data/Input/ASN



Job Parameters	

SFTP Get Files Job Parameter

Job Parameter	Required Action from the User
Hostname	sftp://clienthost.com
SFTP User	Your remote SFTP user. In our example: myremotesftp
Password	Your remote SFTP password. In our example: 567Password!
Port	22
Remote Directory	Your remote directory where you want us to get the files from. Please note this is case sensitive, so the scheduled job may failed if written incorrectly or if the path does not exist. In our example the path is: data/input/asn
Local Directory	This is the local directory where you want to drop the files, so they could be picked up by Oracle WMS Cloud. It is important this is configured correctly as it is case sensitive. Please refer to the *SFTP Troubleshooting* section for more details. If you already have input interface jobs setup earlier to process these files, then this path can be copied from that scheduled job as is. See the *SFTP Troubleshooting* section for more details on which section needs to be copied here: `$LGF_FILES_HOME/interfaces/<COMPANY_CODE>/<FACILITY_CODE>/input/`
File Search Pattern	This file search pattern selects the specific files to be pick up. It is a mandatory field. In our example: ISS*

Job Parameter	Required Action from the User
	You could provide: Only one file patter, multiple file patterns separated by a comma, a list of file matching patterns such as *.png or *.jpg separated by a comma. If there is a Folders in the directory to be searched, it will not be transferred. Once files are picked up by this job, they will get deleted from the remote site. Customers are urged to keep a backup copy in a different path, prior to dropping the files into the remote site

The SFTP Get Files job will pick up the files that start with ISS from your new remote sftp, and it will drop them into Cloud WMS in an internal location, so that they can be picked up and processed as usual.

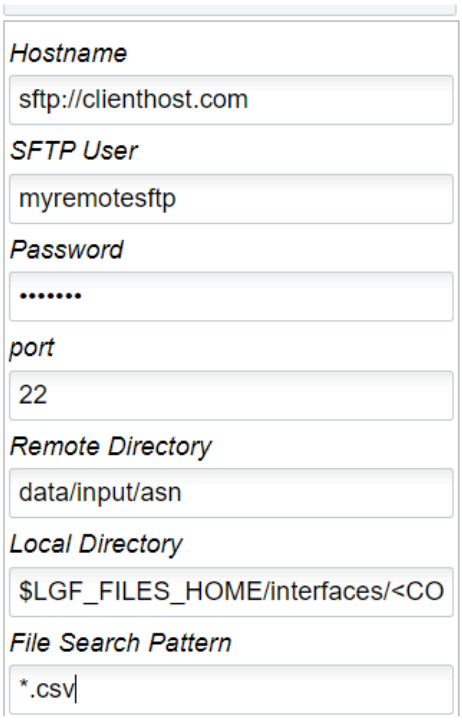
SFTP PUT Files

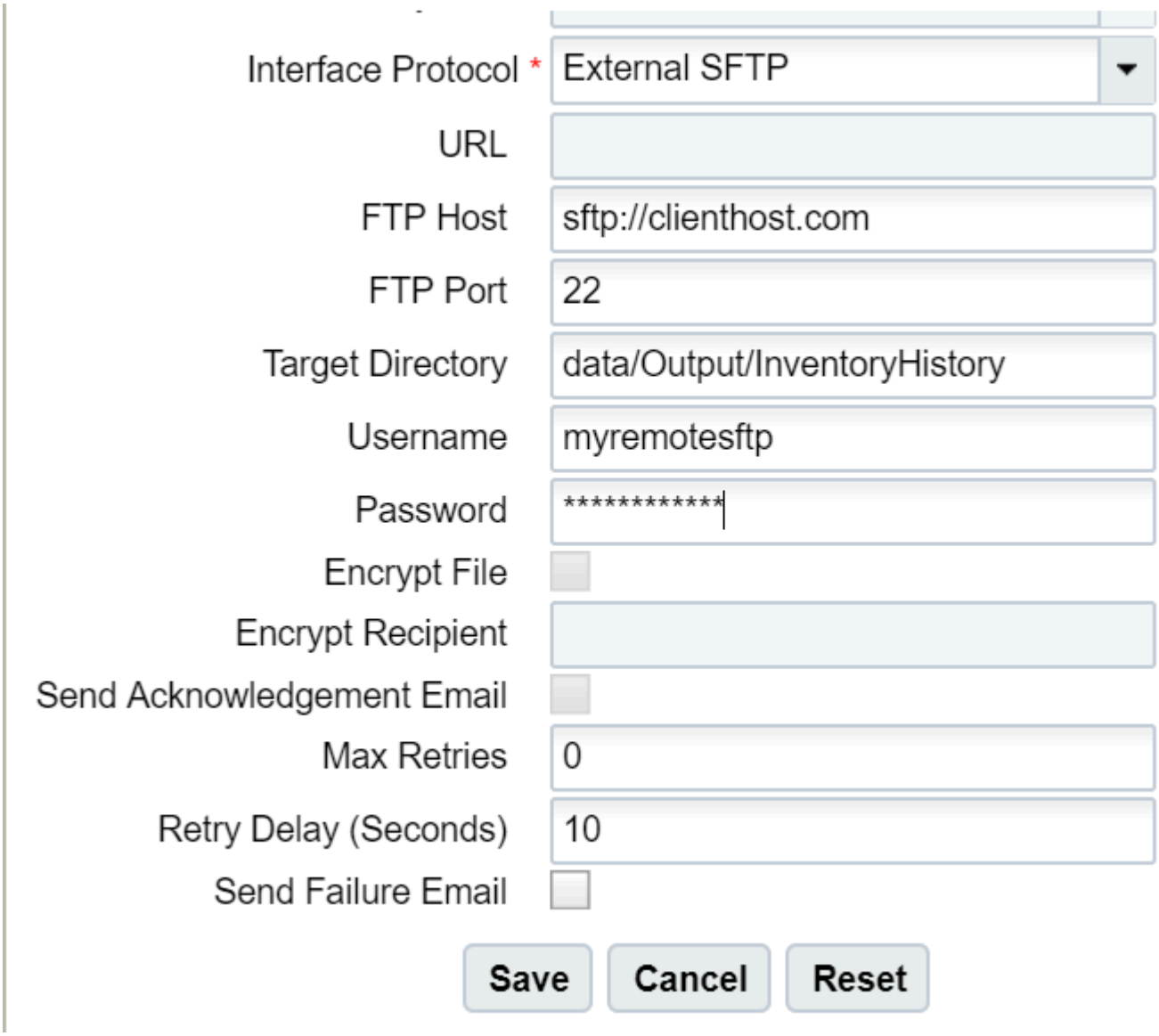
The SFTP Put Files job allows Oracle WMS Cloud to communicate with the new remote hosted SFTP services to transfer files such as Order confirmation, inventory history, etc.

RECOMMENDED CHANGE: As of 9.0.0, Output Interface Configuration allows these files to be sent directly to external SFTP sites (instead of the internal LogFire SFTP) and that is the recommended way over using “SFTP PUT files” as it will skip the internal file transfer step and improve the overall processing speed. For example, if you currently have output interface configuration setup with “Logfire internal sftp” or “Logfire internal file location” as the target, these files get created in that location which is accessible via your LogFire SFTP username and password. You have the option to leave it that way and use the SFTP PUT files job to transfer the file to your external site, but you can skip this step and instead configure the output interface to use “External SFTP” and directly send the file out.

If you use SFTP to extract Web reports, then you will need to use SFTP PUT files.

Job Parameters



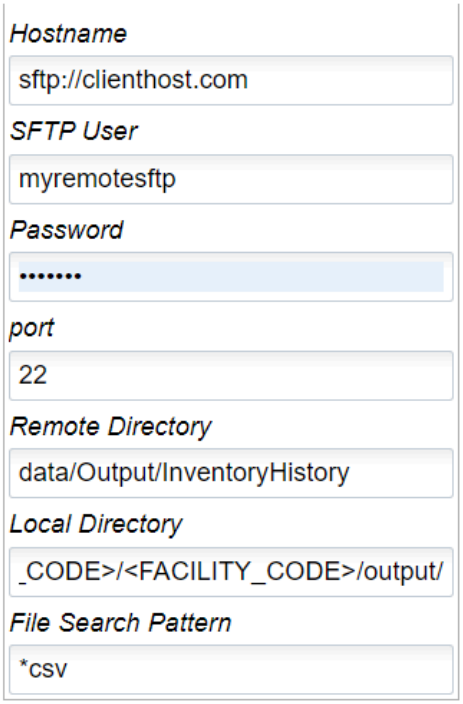


If instead, you prefer to use the SFTP PUT files job, please see details below.

Example: You have configured your Inventory History file to be drop in a specific target directory using Output Interface Configuration.

As you will not be able to get direct access to the Local SFTP folder, you will have to configure this SFTP Get Schedule Job, so Oracle WMS Cloud can drop the file to your assigned folder.

Job Parameters



SFTP Put Files

Job Parameter	Required Action from the User
Hostname	sftp://clienthost.com
SFTP User	your remote SFTP user. In our example: myremotesftp
Password	your remote SFTP password. In our example: 567Password!
Port	22
Remote Directory	your remote directory where you want us to get the files from. Please note this is case sensitive, so the schedule job may failed if written incorrectly or if the path does not exist. In our example, the path is: data/Output/InventoryHistory
Local Directory	This is the local directory where you want to pick the files from the Oracle WMS Cloud inorder to drop at the customer's SFTP folder. It is important this is configured correctly as it is case sensitive. Please refer to the *SFTP Troubleshooting* section for more details. `$LGF_FILES_HOME/interfaces/<COMPANY_CODE>/<FACILITY_CODE>/output/`
File Search Pattern	This file search pattern selects the specific files to be pick up. It is a mandatory field. In our example:*.csv (if you want to narrow down the files picked up by this job)

Job Parameter	Required Action from the User
	You could provide: Only one file patter, multiple file patterns separated by a comma, a list of file matching patterns such as *.png or *.jpg separated by a comma. If there is a Folders in the directory to be searched, it will not be transferred. Once files are picked up by this job, they will get deleted from the remote site. Customers are urged to keep a backup copy in a different path, prior to dropping the files into the remote site.

This job will pick up the files generated in Oracle WMS Cloud, and it will drop them in the path configured in your remote SFTP. The files picked up will be moved to an internal success folder, customers will not have direct access to it. Customers are urged to make additional backups on their side if needed.

Process Input File - Multi - Facility

Previously, the SFTP PUT files scheduled job supported only one facility. Also, some extra steps like copy files were required if the job had to send multiple files across different interfaces. As a result, the user would need to configure and maintain a large number of scheduled jobs, which could also overload the system.

To enhance ease and use of SFTP PUT, a new type of SFTP PUT Job, "Multi Facility - SFTP Put Files" is now available.

The following screen shows Multi-Facility – SFTP Put Files parameters:

Process Input File - Multi-Facility

Job Parameter	Required Action from the User
Hostname	Your remote SFTP hostname. For example: sftp://clienthost.com
SFTP User	Your remote SFTP user.
Password	Your remote SFTP password.
Port	SFTP Port server. The default port is 22.
Remote Directory (Required)	Root folder where the file will be transferred to. At least one folder with an absolute path (/data for e.g.) must be provided.
Remote Sub Directory (Optional)	Sub directory under the Remote Directory where the file(s) will be transferred. If left blank, this job will replicate the WMS folder structure on the remote system, starting with each facility. The following are examples: • Left blank - files will be under <remote_directory>/facility/output/<interface type> • Specific Path is provided, say folder1/folder2 - Files will be under <remote_directory>/folder1/folder2

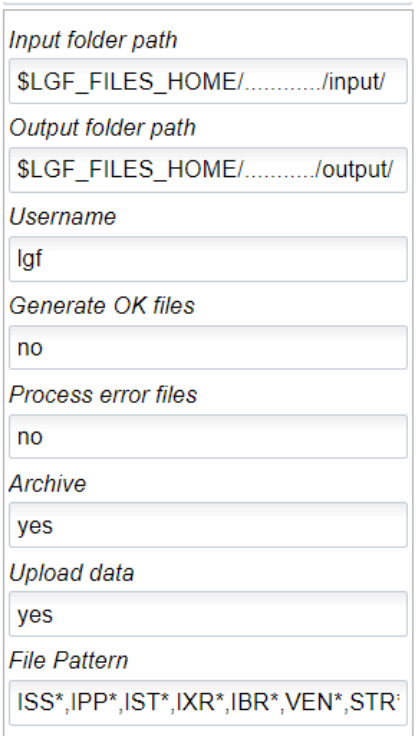
Job Parameter	Required Action from the User
	• Specific Path with keyword {fac}, say {fac}/files - Files will be under <remote_directory>/facility1/files, <remote_directory>/facility2/files etc. "{fac}" is a keyword which allows the end user to still maintain a facility-based separation of files without recreating the complete folder structure
Interface (Required)	Represents a valid output interface. Attempting to provide an un-supported interface will give a meaningful error with the supported interfaces. Currently, the supported interfaces are: **Note:** These are case-sensitive. • orderverification • iblpn_info • custinvsummary • lpn_inventory • shipping • invsummary • distribution_info • pallet_shipping_info • cntrshipping • wavepickinfo • oblpn_shipping_info • ibshipment • manifest • invhistory • iblpn_report • route_instruction
File Search Pattern (Required)	Pattern to pick up files from WMS. for example, CINS*.csv or CINS*. **Note:** "," comma is NOT supported here. "CINS,IHT*" will not work.
Max files to transfer (Optional)	For one execution of the job maximum number of files to transfer. Leave blank to transfer all files
WMS username	User eligible for the COMPANY under which all facilities will be considered for this job.

SFTP Troubleshooting

- It is important to have read and write permissions checked in your folders in SFTP. Otherwise, the system will not be able to get files or send files to your folder.

- Configuration of the Local Directory is important. This is case sensitive. Please note that if the folder doesn't exist currently, it will be created. Also, for get SFTP jobs, typically this path will be the same as your existing input interface processing jobs.
- Set up of Process Input Files: If you are using Local Oracle WMS Cloud SFTP, you currently have this scheduled job set up. If you are setting up the new SFTP GET scheduled job, then you can copy the input folder path (highlighted below) to the Local directory section in SFTP GET scheduled jobs.

Job Parameters



- What is the goal of using SFTP Put files with a target as a LogFire system? Put is intended to transfer files to the client system because they will not have a way to download the file.
- After a file has been processed it will be returned with a .tmp extension.

Process Input Files

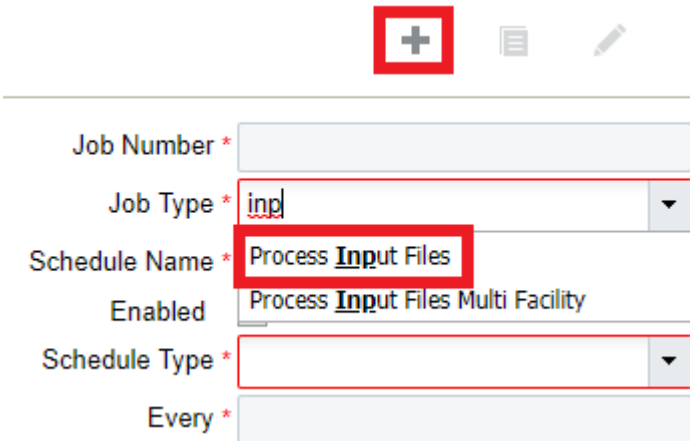
The Process Input Files Job Type allows you to process different input files based on different interface types. For example, if you process an ISS file pattern, this will allow you to process an Inbound Shipment.

This schedule job is processed in two steps:

1. You need to run the SFTP Get schedule job to fetch the required fiels from the clients SFTP folder. Refer *SFTP GET Files* section.
2. Place the acquired files in the internal lgf Home folder.
3. To run the Process Input File:
   a. Go to the Scheduled Jobs screen, click Create (+).
   b. Select **Process Input Files** from the Job Type drop-down and populate all remaining Mandatory fields. Refer to *How to Set-up Scheduled Jobs with Job Types* for a list of mandatory fields.

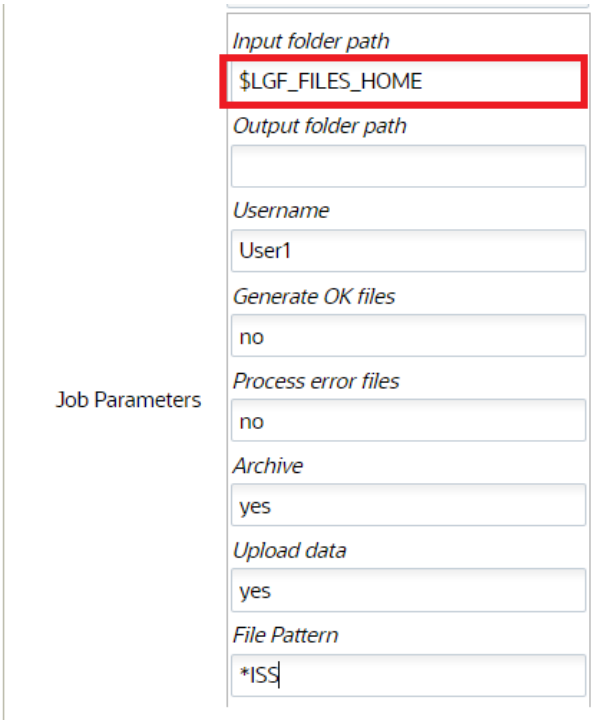
c. Configure the respective parameter for the selected Job Parameter – Refer to OWM-ScheduleJob-v1-R21A.xlsx file.

Note: This job does not support XML files. You need to use the API - **Init Stage** to process any XML files.



Process Input File - Job Parameter

After you complete all of the required Scheduled Job fields, you need to complete the Job Parameters fields.



The following are the job parameters for the **Process Input Files** Job Type:

Process Input Job Parameter

Job Parameter	Required Action from Users
Input Folder path	$LGF_FILES_HOME/interfaces/<company_code>/<fac_code>/input/ Replacing <company_code> with the actual company code and the <fac_code> with the actual facility code.
Output Folder path	Not required
Username	Enter the username that has access to this facility / company
Generate .ok files	No
Process .error files	No
Archive files	Yes
Upload data	Yes
File Pattern	ISS*,ITM*,IPP*,IST*,IXR*,IBR*,VEN*,STR*,POS*,ORR*,PLI*,ISH* (these are prefixes for the different interfaces types such as POS = Purchase Orders). **Note:** Only files with the .psv (pipe-separated values) extension are supported for processing by this schedule job.

Note: Please note that we only support the interface format in the Interface Specs document Interface Specification 21B.

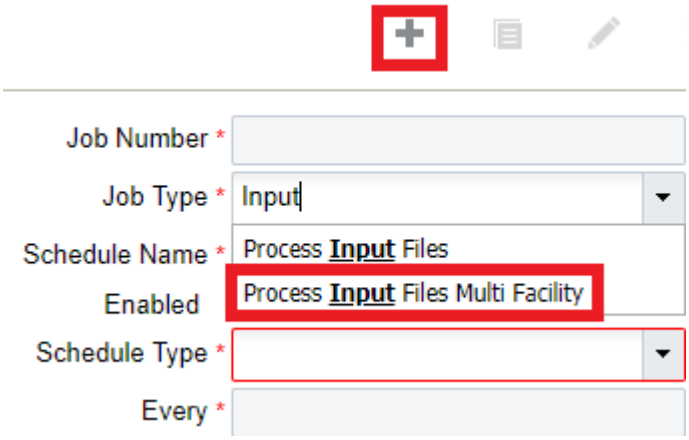
Process Input File - Multi-Facility

In cases where you need to process input files for multiple facilities, you can process Input Files for Multi Facilities via the Scheduled Jobs screen.

This schedule job is useful when you have multiple physical facilities that use Oracle WMS Cloud and you want to avoid creating multiple jobs for each facility.

1. Go to the Scheduled Jobs screen, and click Create (+).
2. Select **Process Input Files Multi Facility** from the Job Type drop-down and populate all remaining required fields.

Note: This job does not support XML or .XLS files. You need to use the API - **Init Stage** to process any XML files.



After you complete all of the required Scheduled Job fields for your **Process Input Files Multi Facility** Job Type, complete the Job Parameters fields. The following are the job parameters for the **Process Input Files Multi Facility** Job Type:

Process Input Files Multi Facility

Input Folder path	$LGF_FILES_HOME/interfaces/<company_code>/<fac_code>/input/
	Replacing <company_code> with the actual company code and the <fac_code> with the actual facility code.
Output Folder path	Not required
Username	Enter the username that has access to this facility / company.
Generate ok files	No
Process error files	No
Archive files	Yes
Upload data	Yes
File Pattern	ISS*,ITM*,IPP*,IST*,IXR*,IBR*,VEN*,STR*,POS*,ORR*,PLI*, ISH* (these are prefixes for the different interfaces types such as POS = Purchase Orders).
	Note: Only files with the .psv extension are supported for processing by this schedule job.
Facility Group	This field is an optional parameter. If you do not provide a Facility Group, by default, this job uses a common internal folder to process all of the data. If you need to create more than one **Process**
	Input Files Multi Facility Job Type, you must provide a text value (with no special characters or spaces.) Ideally, you should add the same value as the path on the input directly.
Job Parameter	**Required Action from the User**

If you are specifying a Facility Group, the following are two examples of what your Input folder paths should look like:

Example path:

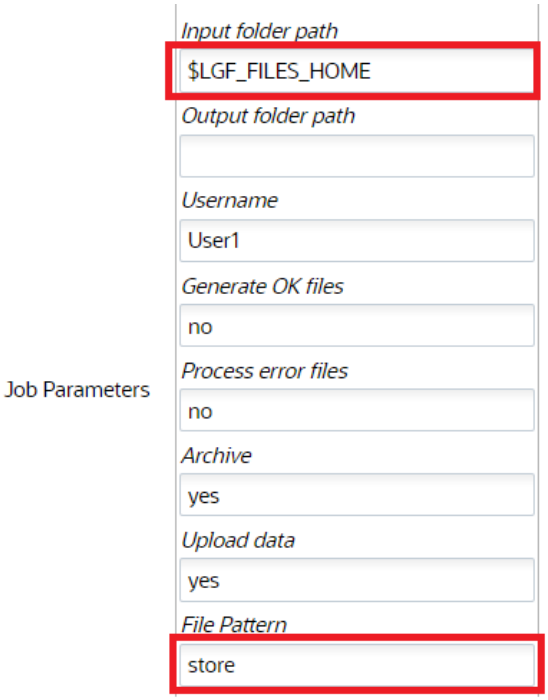
Input Folder path:

```
$LGF_FILES_HOME/interfaces/<COMPANY_CODE>/<FACILITY_CODE>/input/store
```

Example path:

Input Folder path:

```
$LGF_FILES_HOME/interfaces/<COMPANY_CODE>/<FACILITY_CODE>/input/fc
```



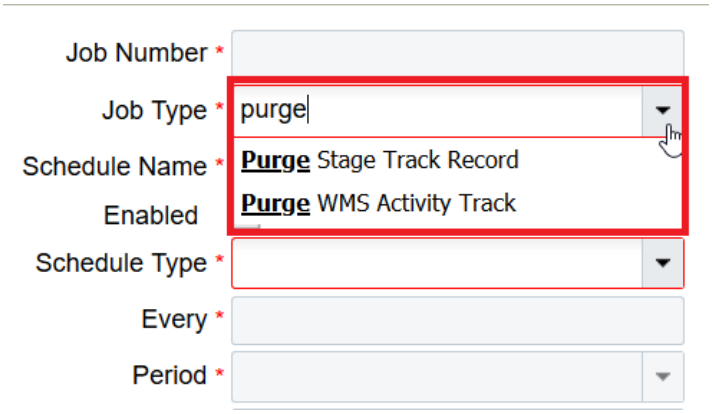
Purge Job Type

You can use this schedule job to delete older records from a selected period of time with status.

There are two types of Purge schedule Job:

- **Purge Stage Track Record** - Deletes records that are older than a period of time and with status FAILED, PROCESSED, IGNORED or CANCELLED.

- **Purge WMS Stage Record** - Deletes the records from the wms_activity_track table which are older than a certain period of time and have SUCCESS or ERROR as status.



Purge Stage Track Record

To set up the Purge Stage Track Record scheduled job type, do the following:

1. From the Scheduled Jobs screen, click Create (**+**).
2. Select Purge Stage Track Record Type drop-down.
3. Enter the **number_of_days** job parameter Click **Save**.

   Based on the value you enter in the number of days field, the system determines from which date-time should the records be deleted. That is, the system calculates the date-time based on the following equation:

   Calculated Date-Time = Current Date-Time – Number of days.

   On completion of deletion, the system writes logs on the total number of records being deleted from stage_track_record table.

   > **Note:** Default value of nbr_of_days = 5

   For example,

   You're current date-time (facility time) = 20-01-2020 and the nbr_of_days =5 days.

   The Calculated Date-Time = 15/02/2020 (20/01/2020 – 5 days).

Purge WMS Stage Record

This scheduled job calculates the WMS activity track based on the following facility parameter:

1. PURGE_NUMBER_OF_DAYS (default value = 30days)
2. PURGE_UNKNOWN_SKU (default value =N)
3. PURGE_UNKNOWN_USER (default value =N)
4. PURGE_UNKNOWN_TRANSACTION (default value =N)

To set up the Purge WMS Stage Record schedule job type, do the following:

1. From the Scheduled Jobs screen, click Create (**+**).
2. Select Purge WMS Stage Record Type drop-down.
3. Enter the Username and the facility field and Click **Save**.
    a. If facility params are set to 'Y', then unknown sku transaction records will be deleted along with success records based on Nbr of days set.
    b. If facility params are set to 'N', then unknown sku transaction records will not be deleted only success records will be deleted based on Nbr of days set

    Based on the PURGE_NUMBER_OF_DAYS determined, the system calculates the Purge_calculated_date from the current date on the following equation:

    Purge_calculated_date = Current Date - PURGE_NUMBER_OF_DAYS

    If the parameter are set to Y, then the system behaves as follows:

    a. If PURGE_UNKNOWN_SKU = 'Y', all the records with date in create_ts older than the calculated Purge_till_date and with status ERROR, then unknown_sku_line_name that is not NULL is selected and deleted. While deleting the records, its corresponding records in the tran_wms_activity_xref table are deleted.
    b. If PURGE_UNKNOWN_USER = 'Y', all the records with date in create_ts older than the calculated Purge_till_date and status ERROR, then unknown_wms_user is not NULL is selected and deleted. While deleting the records its corresponding records in the tran_wms_activity_xref table are deleted.
    c. If PURGE_UNKNOWN_TRANSACTION = 'Y', all the records with date in create_ts older than the calculated Purge_till_date and status ERROR, then unknown_sub_option_name is not NULL is selected and deleted. While deleting the records its corresponding records in the tran_wms_activity_xref table are deleted.

    After completion of all the above deletion procedure, all the records with date in create_ts (column in wms_activity_track table) older than the calculated Purge_till_date and status SUCCESS (with stat_code = 11) are selected and deleted. While deleting the records its corresponding records in the tran_wms_activity_xref table are deleted.

    After every deletion, the system writes logs on the total number of records being deleted from wms_activity_track table for each part.

Additional Scheduled Job Features

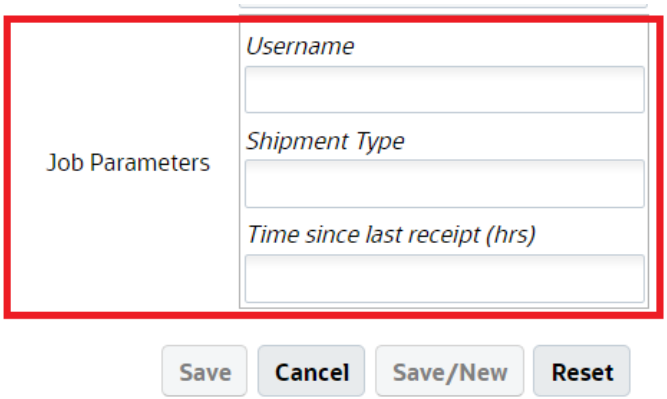
Auto-Verify IB Shipment

Auto-Verify IB Shipment will mark shipments that are received and due for verification for a specified duration (or 72 hours from the last LPN received time) as verified depending on the configuration of the scheduled job. Auto-Verify IB Shipment will not only mark shipments as verified, it will also generate the shipment verification output file. This is beneficial because you don't have to verify the shipmentyou are not interested in tracking the shipment.

To set up the Auto-verify IB Shipemt schedule job type, do the following:

1. From the Scheduled Jobs screen, click Create.

2. Select Auto-Verify IB Shipemt Type drop-down and and populate all remaining required fields.



3. Enter the following fields:
   a. Username: Enter the valid username (Login) in WMS should be provided.
   b. Shipment Type: This is a mandatory field. When the job is run, all IB Shipments that have matching Shipment Type and fulfill other criteria for verification will be considered. You can provide one or more shipment types with comma(,) as the delimiter.

      Note:
      - If no values are entered and you attempt to save the job, the system errors out.
      - Asterisk [*] is not an accepted value for 'Shipment Type' field on the job parameter. You will have to provide the shipment type values explicitly. On saving the schedule job with Asterisk [*] shipment type will display an error message.
      - Shipments without a shipment type will not be considered by this schedule job.

   c. Time since last receipt (hrs): The field indicates the time elapsed since the last LPN was received for the IB Shipment. This field accepts decimal values. If no value is provided, the system will consider 72 hrs as default duration.

      Note: When configuring lesser values, make sure to provide the right shipment type and time since last shipment, otherwise the system could update the status while receiving is still in process.

   NOTE: Shipments with Receiving Started and Receiving Complete status are eligible for verification. Also, shipments will not be verified if they have QC pending LPNs even if the shipments match the job parameter criteria for auto-verify through the scheduler.
4. Click **Save**.

Extract Inventory Balance To Delete Zero Quantity Records

To maintain a clean and relevant dataset, you have the option to flush out or purge records with zero quantities during the extraction process. This ensures that your inventory data remains concise and up-to-date.

We've added the following Scheduled Jobs:

Scheduled Job	Description
Extract Inventory Balance Snapshot	This job will now include zero quantity records for the specified SKU/BATCH/EXP_DATE/INVENTORY ATTRIBUTE combinations. You can choose to retain or purge these records based on your preferences.
Generate Inventory Balance Snapshot	The extraction rule can be configured to handle zero quantity records. You can select whether to include or exclude these records in the generated snapshot.

Delete Zero Quantity Records Extracted Parameter

You can manage including ERP buckets with zero quantity from the previous run using the **delete_zero_qty_records_extracted**parameter in the **Extract Inventory Snapshot** scheduled job.

- The parameter accepts values "Yes" or "No".
- By default, it is left blank, ensuring zero quantity records are not flushed out.
- If set to "Yes", the system will delete zero quantity records for the specified SKU/Inventory combinations after the extraction process, keeping your data tidy.
- If set to "No", all records, including zero and non-zero quantities, will be extracted without purging.

You can access and configure this parameter in the **Item Summary Generation Rule View** UI for extraction rule types, ensuring a seamless and controlled inventory management experience.

Calculating Storage Billing by Cube for Locations

Typically, on running this schedule job, the system determines the storage volume for each item per location and the corresponding IHT records os written. During the execution, the scheduled job checks for the inventory to determine all the available location types. Now, in case of volume, the scheduled job checks for the dimensions for cases/packs first and then units.

The following explains the sequential flow:

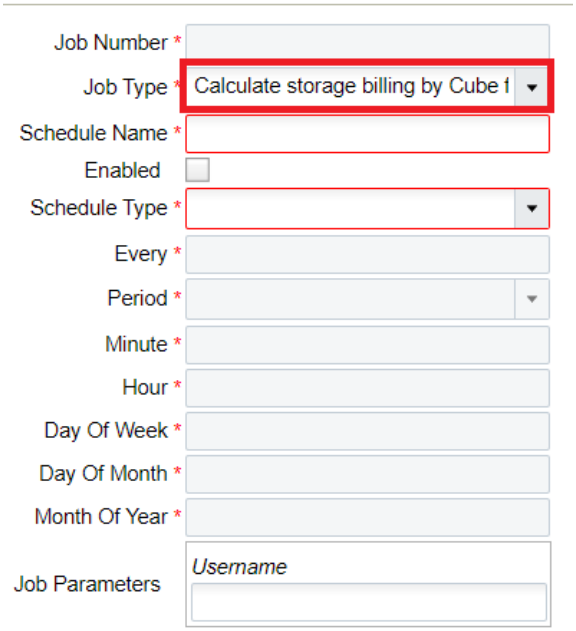
- If the standard case quantity is populated for an item, then the standard case LxWxH is used for computing the volume. The total inventory for the item times standard case LxWxH.
- If the standard case quantity is not populated for an item or any of the item's standard case LxWxH is not populated, then items' std pack and pack LxWxH will be used.
- If the standard pack quantity for an item is not populated or any of the item's standard pack LxWxH is not populated, then items' unit LxWxH will be used in computing the volume.
- IHT-79 will be written for each item/location combination irrespective of batch/attributes/expiry date. Orig_Qty on the IHT will contain the volume computed above.

> **Note:** Currently, WMS does not have UOM associated for dimensions. The value entered is assumed to be in same dimensions, the system does not perform UOM conversions as part of this job.

To set up the schedule job type, do the following:

1. From the Scheduled Jobs screen, click Create (**+**).

2. Select Calculate storage billing by Cube for location from the Job Type drop-down.



3. Populate the required fields and Click **Save**.

Remove Personal Info from Customer Orders, Multi Facility

You can remove personal info (PI) from customer orders periodically via “Remove Personal Info from Customer Orders, Multi Facility” scheduled job.

To set up the “Remove Personal Info from Customer Orders, Multi Facility” schedule job type, do the following:

1. Go to **Scheduled Jobs (ScheduledJobView)** UI.
2. To configure a new scheduled job, click
   ➕
   (Create) action button.
3. On the create pane, from the **Job Type** drop-down list, select “Remove Personal Info from Customer Orders, Multi Facility”.

   > **Note:** This scheduled job is applicable only for customer orders that are in Shipped and Cancelled status.

4. On the create pane, populate all required fields and the following job parameters.
   - **retention_days**: Enter the number of days you want to retain PI on the order after the order shipped date. For example, if you enter 30 days, the system removes the PI from the orders that are shipped more than 30 days ago.
   - **Order Type**: Multiple comma-separated order type values to select customer order types targeted for PI removal.

   > **Note:** For more details on populating the required fields, refer *How to Set-up Scheduled Jobs with Job Types*.

5. Click **Save**.

On successful execution of the scheduled job, the system:

- Removes the Personal Info from all shipped and cancelled orders that fulfills the criteria (retention days from order shipped timestamp).
- Updates the “mod_timestamp” and “mod-user” to reflect the time of PI removal and the user who initiated the scheduled job.
- Retains the “order shipped timestamp”.
- For single or multi-facility orders, for each facility, writes a log as “Personal information cleared for %s Orders for facility %s”.