OrderFlow

OrderFlow Printing and Workstation Setup Guide

OrderFlow Ltd.

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Introduction

OrderFlow is a enterprise strength web-based order processing and warehouse management system. While OrderFlow can be hosted within the customer's warehouse environment, it is more typically hosted by a dedicated hosting provider, often in a cloud environment.

The warehouse environment needs to support printing. Items that need to be printed may include despatch notes, labels and picking reports.

A key feature of printing operations is that local network access is required. Software that connects to either a local or network printer needs to be running on the warehouse's local network.

In an OrderFlow environment, this function is performed through a dedicated application, know as the **Print Server**. The print server is a robust Java-based application designed to run on the warehouse local network specifically to handle printing tasks on behalf of OrderFlow.

The Print Server can be set up to perform workstation-based printing tasks for documents and labels, and is also able to integrate with a number of third party courier label printing systems. In addition, it can be used to handle bulk printing of paperwork for large shipment batches.

The purpose of this document is to describe the steps involved for setting up and maintaining a printing environment which uses the Print Server. The target audience for this document includes technical support teams working for customers of OrderFlow Software.

🛕 Note

Previous versions of this document also covered direct to browser printing using Java Applets and the Adobe PDF Reader software package.

As support for these technologies have been removed from modern browsers due to security concerns, they are no longer supported in OrderFlow.

Print Server

Introduction

The OrderFlow Print Server serves two purposes.

Its primary purpose is for *document printing*. The Print Server is optimised for printing of shipment batches, allowing large numbers of documents to be printed with little or no user intervention.

For document printing, a typical configuration will involve one instance of the Print Server for each site connecting to an OrderFlow system. However, it is possible to use multiple Print Server instances for this purpose, if volumes dictate.

The other main use for the Print Server is for integrating with third party *courier label printing systems*. Examples include:

- UPS Worldship
- DPD Ship@ease
- Yodel DeskDispatch

These systems are all desktop applications which run on Microsoft Windows. They interface directly with label printers on the warehouse floor. They are typically not internet enabled, but instead data is shared with these systems by writing files to and reading files from the local file system.

As the Print Server is also installed on the local network, it is able to communicate with these systems on OrderFlow's behalf, typically to trigger printing of shipment labels and to capture tracking references.

Concepts and Architecture

As mentioned earlier, OrderFlow does not print directly to printers on a local network. Instead, printing is accomplished through the use of Print Servers.

A key concept that is used in OrderFlow printing is the print queue. When a printable document, or *print item*, is created on OrderFlow, it is published to a *print queue*. The document will be retrieved from the print queue by a Print Server, and then printed to a local printer.

Print queues are associated with printable items in a number of ways. See the Orderflow Configuration section for more details on how this is done.

Print Servers are well suited to high volume printing environments in that they support a flexible scheme for distributing high volume printing among multiple printers. The Print Server also supports offline download of print jobs, which themselves can be generated automatically via scheduled jobs.

The architecture for the Print Server is shown in the diagram below.



In the architecture diagram above, two Print Server instances, possibly on two local area networks, are connecting to a single OrderFlow instance.

- Print Server 1 connects to Printer 1 and Printer 2.
- Print Server 2 connects to Printer A and Printer B.

Print Queues

OrderFlow (typically) does not maintain a direct mapping to printers. Instead it publishes print jobs onto *queues*. Print Servers monitor these queues, and can map these queues to specific printers. In our example above, four print queues are used.

Note that every print item that OrderFlow generates is associated with a logical print queue. By convention documents sent to other queues are typically consumed by one Print Server instance.

The identification of a particular print queue can be done in a number of ways:

- for print jobs involving shipment batches printed on a centrally located printer in the warehouse, the shipment batch type will typically be associated with a print queue.
- for printing of shipment documents directly to workstations (e.g. packing desks), the print queue may be set up through an OrderFlow Workstation property.

Normally, in a single site environment, each OrderFlow print queue should only be monitored by a single Print Server instance. If multiple Print Servers are downloading jobs from the same queue, it can lead to some confusion, as the destination of individual print jobs is not easy to predict.

Installation

The Print Server is distributed as a self-contained Java application via a zip file.

A copy of the Print Server installation file can be obtain on request from OrderFlow technical support. For customers, it is also available from the Published Documents page on the support portal.

The installation steps involved as as follows.

- · download and unzip the zip file
- copy the config directory
- test running the application

However, before beginning, it is worth installing (or verifying the installation of) the prerequisite software.

For the Print Server, the following software is recommended to be installed on the host computer:

- Microsoft Windows
- Java
- Team Viewer

Microsoft Windows

Our typical customer uses a Windows workstation hosted in the warehouse environment as a Print Server host. While we will support or even encourage the use of Linux as a Print Server host operating system, this document only covers the setup of the Print Server on Windows.

We do not mandate a particular version of Windows, except to say that it needs to support the running of Java below.

Note that the workstation used must have network access to the OrderFlow server, potentially hosted offsite.

You will need to be able to run applications, as administrator in some environments, depending on local network security policies.

Java

The Print Server also runs on Java, although as a server, rather than simply as a browser-embedded plugin.

We recommend that the latest available version of Java be used at the time of setup. Our commitment is to ensure that the Print Server will always run on the latest available version of Java. However, the Java version on which the Print Server runs typically does not need to be upgraded after install, except when requested by OrderFlow technical support.

Java can be downloaded from the Java web site.

TeamViewer

TeamViewer software is used by OrderFlow for remote desktop access when supporting the Print Server. TeamViewer allows OrderFlow technical support staff to gain access to the Print Server environment to check configurations, diagnose issues and perform other support tasks when required.

Text Editor

As configuration of the Print Server involves modifying text files, we recommend that you install a text editor that works nicely with the Print Server configuration files.

An example is NotePad++.

Download and Setup

Download print service, and unzip it into *C:/RealtimeDespatch*, as shown below. The use of the *C:/RealtimeDespatch* folder for hosting the Print Server is not required, but is recommended as a convention which makes it slightly easier for us to support your Print Server environment.

📙 🛃 🔚 🗢 printservice-55833-jetty					- 0	×	
File Home Share View						~ 🕐	
← → × ↑ 🔄 > This PC > Local Disk (C:) > RealtimeDespatch > printservice-55833-jetty 🗸 Ŏ Search printservice-55833-jetty 🔎							
> 🔜 Desktop 🔨	Name	Date modified	Туре	Size	e		
> 🗄 Documents	config	27/11/2017 11:54	File folde	r			
> 🕂 Downloads	html	27/11/2017 11:54	File folde	r			
> 👌 Music	jetty	27/11/2017 11:55	File folde	r			
> 📄 Pictures	war	27/11/2017 11:56	File folde	r			
> 📑 Videos	💿 debugjetty	06/10/2017 17:15	Windows	Batch File	1 KB		
Local Disk (C:)	🛓 launcher	06/10/2017 17:15	Executabl	e Jar File	7 KB		
> Intel	launcher-sources	- 06/10/2017 17:15	Executabl	e Jar File	4 KB		
Perflogs	💿 runjetty	06/10/2017 17:15	Windows	Batch File	1 KB		
Des mars Files	startjetty	06/10/2017 17:15	Windows	Batch File	1 KB		
	startjetty.sh	06/10/2017 17:15	SH File	D	1 KB		
> Program Files (x86)	startup	06/10/2017 17:15	Windows	Batch File	I KB		
RealtimeDespatch							
config							
printservice-55833-jetty							
> 🔋 printservice-55833-jetty							
> Users							
> 📙 Windows							
> 🔜 USB Drive (D:)							
> 👝 USB Drive (D:)							
11 items							

Once you've unzipped the zip file into *C:/RealtimeDespatch*, copy the *config* directory contained within the *printservice-xxxxx-jetty*, and paste it into *C:/RealtimeDespatch*, as shown in the diagram below.

📙 🛃 📕 🖛 config				- 0	×
File Home Share View					~ ?
← → × ↑ 🔒 > This PC > Local Di	sk (C:) > RealtimeDespatch > config		✓ Ö Search c	onfig	Q
> 🔜 Desktop	Name	Date modified	Туре	Size	
> 🔮 Documents	despatch.properties	06/10/2017 17:15	PROPERTIES File	1 KB	
> 🕂 Downloads	dmo.properties	06/10/2017 17:15	PROPERTIES File	2 KB	
> 🁌 Music	dpd.properties	06/10/2017 17:15	PROPERTIES File	2 KB	
> 📰 Pictures	fetch.properties	06/10/2017 17:15	PROPERTIES File	2 KB	
> 🐺 Videos	jasper.properties	06/10/2017 17:15	PROPERTIES File	1 KB	
X in Local Disk (Ct)	log4j.properties	06/10/2017 17:15	PROPERTIES File	2 KB	
	parcelforce.properties	06/10/2017 17:15	PROPERTIES File	1 KB	
	print.properties	06/10/2017 17:15	PROPERTIES File	2 KB	
PertLogs	scheduler.properties	06/10/2017 17:15	PROPERTIES File	1 KB	
> 📙 Program Files	sysprop.properties	06/10/2017 17:15	PROPERTIES File	1 KB	
> Program Files (x86)	worldship.properties	06/10/2017 17:15	PROPERTIES File	1 KB	
✓ RealtimeDespatch	yodel.properties	06/10/2017 17:15	PROPERTIES File	2 KB	
config					
> printservice-55833-jetty					
> printservice-55833-ietty					
> Users					
Windows					
> a USB Drive (D:)					
> 👝 USB Drive (D:)					
v 12 items					

The reason for the above step, which only applies for the initial install, is so that subsequent upgrades of the Print Server can reuse the previously set values in the *config* directory. The config directory contains the main configuration files used to customise the Print Server. Basic instructions on configuration changes suggested for these files follow in the next section. Once the directory structure has been set up, it is a good idea to set up a **shortcut**.

Simply right click on the file *startup.bat*, and click 'Create shortcut'. Copy the shortcut to the desktop, to make it easier to launch the application, as shown below.

startup - Shortcut	I Image: Imag	plication Tools printservice-55833- Manage isk (C:) > RealtimeDespatch > printservice-55833-	ietty – □ Image: Startup - Shortcut Properties × Image: Colors Security Details Image: General Shortcut Options Image: Font Layout	× v?
	 Downloads Music Pictures Videos Local Disk (C:) Intel PerfLogs Program Files Program Files (x86) RealtimeDespatch config printservice-55833-jetty Users Windows USB Drive (D:) USB Drive (D:) 	 config html jetty war debugjetty auncher launcher-sources runjetty startjetty startjetty.sh startup 	startup - Shortcut Target type: Windows Batch File Target location: printservice-55833 jetty Target: ImeDespatch \printservice-55833 jetty \startup bat Start in: C:\RealtimeDespatch \printservice-55833 jetty Shortcut key: None Run: Normal window Comment:	
	11 items 1 item selected 53 bytes			

Optional steps once the shortcut has been created are to rename the shortcut, or to modify the shortcut icon. Once the shortcut has been placed on the desktop, the application can be launched by double clicking on the shortcut icon.

Post-installation Configuration

Before starting up the Print Server, you will need to set the value for the configuration parameters, in order to connect successfully for OrderFlow, to monitor the correct print queues, and to set the necessary print queue to printer mappings.

Note also you will need to restart the Print Server

Note that configuration parameters that are *commented-out* (i.e. those that have a '#' at the beginning of the line) will take the default value built into the Print Server application.

fetch.properties

```
#The site identifier for the site/warehouse in which this print service is based.
#Corresponds with the appropriate site identifier on orderflow
fetch.site=DEFAULT
#The friendly name for the Print Server, used to help identify the source of jobs
fetch.friendly.name=PRINT1
#The base URL, user and password of the OrderFlow instance
fetch.base.url=http://localhost:8081/web/remoteprint/
fetch.user=print
fetch.password=print
```

The property fetch.site is the OrderFlow site. If connecting from more than one site to a single OrderFlow instance, different Print Servers will have different values for fetch.site.

The property fetch.friendly.name helps to identify the print server in a user-friendly way.

The properties fetch.base.url, fetch.user and fetch.password are fairly self-explanatory. They need to be set correctly in order to connect successfully to OrderFlow.

print.properties

This configuration file is used to set the print queues to monitor on OrderFlow, and the mapping from logical print queue to printer.

```
#The comma separated list of queues which this Print Server is interested in for direct printing or downloading
print.queues=LABEL11,DOC11
#The mapping from queue name to printer name. The right hand side of the first equals sign
```

#contains a comma separated set of pairs of queues to printers
print.queue.printers=LABEL11=ZDesigner GK420d,D0C11=A4 Laser

Note that the in the example above, the Print Server has been set up to poll the OrderFlow print queues *LABEL11* and *DOC11*. The documents published onto *LABEL11* are then routed to the printer *ZDesigner GK420d*, and those published onto *DOC11* are routed onto *A4 Laser*.

Note that you can also use the special value *DEFAULT* as a printer name, which will route documents to the default printer on that workstation as per the Windows setup.

print.queue.printers=LABEL11=DEFAULT,DOC11=A4 Laser

The above example would also work if the ZDesigner GK420d printer is also the default Windows printer.

scheduler.properties

Print Server monitors print queues in the background.

```
scheduler.poll.interval=5
scheduler.poll.delay=10
```

The scheduler.poll.interval property is used to control the polling interval. The property scheduler.poll.delay is used to control the delay after startup.

sysprop.properties

This file contains Java system properties that may need to be loaded at startup. The main entry of interest here is the line below:

bootstrapModulesResource=moduledefinitions.xml

The above line contains a reference to the module definitions file which controls which Print Server module are loaded at startup.

If a non-standard module configuration needs to be applied, this will normally be done with additional instructions provided by a member of the OrderFlow support team.

Running the Application

Application Startup

As described earlier, the Print Server can be started simply by double clicking on the shortcut icon.

On startup, the Print Server will:

- · connect to the configured OrderFlow instance, and register itself with OrderFlow
- · download resources, especially label icons and logo images, for use locally in print jobs
- initiate a schedule to poll for print jobs

A terminal window will be visible once the application is running.

Once started, the Print Server will be ready to download and print jobs to local printers, and to perform other integration tasks on the local network.

Typically, the Print Server is started on port 8181, so you can navigate to the Print Server by pointing your browser to the following address: http://localhost:8181/web/. (To change the port on which the Print Server runs, edit the *startup.bat* file referenced by the shortcut.

The next couple of sections describe how to verify the Print Server installation, using features available both on the Print Server and OrderFlow.

Verifying on the Print Server

As well as supporting printing operations, the Print Server user interface includes a number of support screens which can be used to verify the configuration and setup.

- the fonts installed on the Print Server
- the image resources downloaded from OrderFlow

The screen below shows the Print Server configuration, which is essentially a visual representation of the configuration values loaded from the *config* directory.

OrderFlow Print Service : PRINT1 Workstation : Default 001									
Home Printing Config									
Config Printing configuration									
rom this screen you can view the printserver print	configuration.								
Version	55833								
Fetch Properties									
Кеу	Value	Value							
fetch.friendly.name	PRINT1								
fetch.workstation.reference	default_001	default_001							
fetch.image.temp.download.directory	tempimages								
fetch.proxy.user									
fetch.proxy.source									
fetch.compatibility									
fetch.proxy.password	**** (0 characters)								
fetch.site	DEFAULT								
fetch.max.concurrent.queue.jobs	2								
fetch.image.use.temp.download.directory	true								
fetch.proxy.port	8080								
fetch.workstation.name	Default 001								
fetch.image.base.directory	images								

Verifying on OrderFlow

We can also verify on OrderFlow that a Print Server instance has successfully connected, from the **Admin -> Print Server** menu option.

Customer le	ogo here	re Test data set/rtd2/database/rtd2.sql philz							philz (<i>Aug Workstation 01</i>) [Log out [About 1]		
Despatch	Inventory	Warehouse	Import	Integration	Reports	Admin				(
		Print Servers						Showing all sites Sho	wing all organisations (inc. test)	C Confi	
Alarms Sessions		Print servers identifi	Print servers identified on this screen are those which have connected with the current OrderFlow instance.								
Errors		The latest unique print server instances to connect with the system are shown below. X Delete old entries									
Events		Identifier		Host		Version	Queues	Started	Last Notification	I	
Jobs		PRINT1		greg-Proteu:	6	55833	DEFAULT (from site <i>Default</i>)	22/08/202	3 15:15:21 2 minutes ago	×	
Tests											
Print Servers		Print server identification entries are <i>unique</i> by a combination of host name, file system path and friendly name.									
Health Check		3 Show recent entries									
Performance											
	(© OrderFlow 2023							Ret	urn to the to	

Note that each Print Server which connects to OrderFlow periodically sends a *heartbeat* message. The page above shows the Print Server instances connecting to the current server, the print queues being monitored, and when the last heartbeat message was received.

In the example above, the print queue DEFAULT is being polled by the Print Server with the 'friendly' name *PRINT1*, with the last heartbeat message received two minutes ago.

Testing the Print Queue

Once the above test has been successfully performed, you can test printing to the print queue from the **Setup -> Print Queues** menu.

Test Print Queue		Showing all sites	Showing all organisations (inc. test)	😭 Back to Home
Test print queue DEFAULT. Ch	oose the <i>test document</i> you wish to use, as well	as the <i>state</i> you wish the created print if	tem to have.	
Test details				
Resource	A4 Test Document 🗸			
State	~			
Site	~			
			Car	Test
Q Search print items				
+ Back to print queue				

First, navigate to the print queue you wish to test. The select a resource, and site. Note that the **site** needs to be the site to which the Print Server is connecting. In a multi site environment, you will need to make the correct choice there.

After clicking on the 'Test' button, you will see output as shown above.

On the Print Server workstation, you should see your document print if the configuration is correct there too. You should also be able to inspect the console output shown on the print server, and see output such as the following.

```
2016-06-23 14:34:41,684 INFO [MultiStatusBatchFetchingPrintManager] Received 1 jobs from reader
2016-06-23 14:34:41,684 INFO [MultiStatusBatchFetchingPrintManager] Printing job 114-test_a4.xml
2016-06-23 14:34:41,684 INFO [BaseBatchFetchingPrintfileWriter] Printing job 114-test_a4.xml using printer:
DEFAULT
2016-06-23 14:34:41,709 INFO [DownloadingPrintDetailSource] Time taken to download print item '114': 23
milliseconds
2016-06-23 14:34:43,510 INFO [BaseBatchFetchingPrintfileWriter] Update print status to 'sent' for 114 via
resource updatePrintStatus.xml
```

Upgrading the Print Server

Occasionally an upgrade to the Print Server will be required, to take advantage of new features and bug fixes.

The steps involved for performing an upgrade are as follows.

- Stop the existing Print Server by closing the terminal window in which it is running.
- Download the more recent release of the Print Server, and unzip it into C:/RealtimeDespatch as for the initial install.
- Delete the existing shortcut icon from the desktop, and replace it with a new shortcut icon which points to the *startup.bat* file in the newly unzipped *printservice-XXXXX-jetty* directory.
- Double click on the new shortcut icon to restart the application.

The screenshot below shows an example how the directory structure will appear after the upgrade.

	Rint S	enver							
	Prints	erver	8	Print Server	Propertie	s			×
🕞 🌍 🗢 🕌 « OS (C:) 🕨 RealtimeDespatc	h 🕨 printserv	ice-24578-jetty 🕨		Compatibility	Sec	curity	Details	Previous \	/ersions
File Edit View Tools Help				General	Shortcut	Options	Font	Layout	Colors
Organize 🔻 Include in library 🔻 Sha	re with 🔻	Burn New folde	er		Print Serve	er			
 Computer OS (C:) SRecycle.Bin Apps Config.Msi Config.Msi Control Documents and Settings Drivers Colipse-helios Intel PerfLogs Program Files ProgramData RealtimeDespatch config printservice-23449-jetty printservice-24578-jetty 	 Name ina jetty je	fig ges / s ugjetty.bat ncher.jar ncher.sources.jar jetty.bat tjetty.bat tjetty.sh tup.bat		Target type: Target location Target: Start in: Shortcut key: Run: Comment: Open File	Windov on: printser <u>ImeDe</u> C:\Rea Nome Location	ws Batch File vice-24578 ; spatch\prin altimeDespat I window	e iservice-24 tch\printser re Icon	578-jetty\start vice-24578-je	up bat tty d
 printservice-23449-jetty.zip printservice-24578-jetty.zip 			L			UK	Car		Apply
share shared System Volume Information 13 items	+ (•	

Note that there is no need to copy the *config* directory after the upgrade. The application will continue to use the config settings in the directory under *C:/RealtimeDespatch*. In other words, existing settings will be preserved.

Orderflow Configuration

Introduction

This document is primarily about Print Servers, and not OrderFlow configuration. However, a little understanding on how *print queues* are set up will be helpful in gaining a better overall picture of how the pieces fit together.

As described in the Print Server section, print queues are used by OrderFlow to identify target destinations for printed output. Each print queue used in the application needs to be set up as an entry visible on the OrderFlow GUI, shown below.

									Connigh	10
Customer logo here.	•• Test dat	a set/rtd2/database/rtd2	.sql					philz (<i>Aug Workstation 01</i>) [Lu	og out [About	5
Despatch Inventory	Warehouse	Import Integration	Reports	Admin	Setup	Advanced				(
	Print Queues					Showing	g all sites	Showing all organisations (inc. test)	🏠 Back to H	оп
System										
Channels	Below are the print of	lueues currently on the syste	m.							
Organisations	Reference Name				Description					
Sites	DEFAULT Default			JLT Default The default print que		The default print queue, routed to the default printer				
oites	DMO Roya		yalMail DMO	Mail DMO The print queue used for RoyalMail Despatch Manager Online (DMO) shipments			×			
Properties	DPD	DPD The DPD print queue used for ship@ease.		The DPD print queue used for ship@ease.			×			
Property Groups	LABEL	La	ibel Shared label printer used for reprinting		Shared label printer used for reprinting			×		
Print Queues	PDF	PC	F		Default print queue previously used to print PDF documents via Adobe PDF Reader client browser,			n the 🗙		
List	WORLDSHIP	W	orldship		Print queue used by default for UPS Worldship exports.			×		
Workstations	YODEL Yodel			The Yodel prin	nt queue used for Desl	k Despatc	h.	×		
File Resources										
Countries										
Country Groups										
	© OrderFlow 2023								Return to the	to

A number of different mechanisms are used within the application to determine the print queue for a printable document, or *print item*.

For *shipment batches*, each shipment *batch type* is typically associated with a print queue. However it is also possible for the queue to be used for a batch print job to depend directly on the workstation from which the batch printing is initiated.

For other types of documents, the print queue typically depends on a workstation-specific property value. The name of the property will itself be context dependent, changing according to the type of document being generated.

Shipment Batches

Every shipment batch is associated with a print queue through the shipment's batch type, as shown below.

However, it is also possible to associate a shipment batch with a workstation-specific print queue. This is only possible for shipment batches which are printed manually. Shipment batches printed automatically using a scheduled job can only be associated with the print queue associated with their parent batch types.

									Config Mo
Customer logo here.	••• Test data	a set/rtd2/da	atabase/rtd2.s	ql				philz (Aug Workstation 0	7) Log out About 🏾 🏌
Despatch Inventor	y Warehouse	Import	Integration	Reports	Admin	Setup	Advanced		
	Edit Batch Typ	e					Showing all sites	Showing all organisations (inc. test)	ලිදී Back to Operatio
Courier Setup									Back to list Next 🕨
Carrier Setup	Edit details for curren	it batch type m	ultiline.						
Batch Types	Batch type details								
List		Reference ⁰	multiline						
Collection Groups		Name ^G	Multiline						
Sales Owners		Description	Multi line b	atch type, with	n picking dire	ct to packir	ng		
Packaging	c	Sort Indicator ⁰	1						
Split Definitions	Despatch Note	e Print Oueue ⁶	Default			~	Despatch Note Print Operation	on •	
Picking Modes	Courier Labe	I Print Queue				~			
Courier Admin	F	Packing Type ^G	Scan to Pac			~			
	Com	pletion State ⁰	Packed			~			
		Active ^G							
		Is Default							
	Courie	er Dependent ^G	🗹 (If true,	then cannot ch	ange courier	while assoc	iated with a batch)		
	Bulk Despatch I	Note Printing ⁶	🗹 (If false	e, then despatch	n note will be p	printed just	prior to packing)		

In the screenshot above, the multiline batch type has been associated with the DEFAULT print queue.

During their lifecycle, Print Items on OrderFlow can be in the ready state or the downloadable state. Those in the ready state get printed out automatically by the Print Server. Those in the downloadable state have to be dragged to a printer on the "Printing Control" page of the Print Server web interface. Shipment batches can be configured to default their Print Items to either state, using the batch.download.before.printing application property (on OrderFlow).

Workstation-specific Print Queue Naming

The following section describes some best practices that can be applied when using the Print Server for printing documents on the packing desk. This can apply both for despatch notes and labels.

In this scenario, you will need the Print Server to be installed not just on a single workstation, but on each of the packing desks.

Establishing and applying sensible naming convention for workstations, Print Servers and print queues is important in making this arrangement easy to set up, replicate or extend with further packing desks.

For the configuration just described, you will need:

- an instance of the Print Server to be installed set up on each packing desk.
- a Workstation instance on OrderFlow for each packing desk.
- for each document type that is to be printed using the Print Server, a **Print Queue** queue for each workstation and documentation type combination.

The naming of the Print Server itself can be set up using the *fetch.friendly.name* property in the *fetch.properties* configuration file.

For example, if you are using the Print Server to print A4 despatch notes to a laser printer, and 6x4 labels to a thermal printer, then you a suitable naming convention might be.

- a numbered workstation for each packing desk, for example, WORKSTATION_01, WORKSTATION_02 etc.
- corresponding named print queues for A4 document printing: DOCUMENT_01, DOCUMENT_02 etc.
- corresponding named print queues for label printing: LABEL_01, LABEL_02 etc.

These values will be reflected in the Print Server's *print.properties* file configuration. The will also be reflected in the Workstation Property values, described in the next section.

Workstation-specific Documents

For many of the printing operations, the user is expected to be associated with a workstation. Different workstation properties are used to identify the workstation-specific target for different types of printed documents.

	Edit Workstation			Showing all sites	Showing all organisations (inc. t	est)	🏠 Back to Home
System					4 Previous	Back t	olist Next ₽₽
Channels	Edit workstation entry SECOND_SUP	PORT.					
Organisations	Workstation details						
Sites	Reference ⁰	SECOND_SUPPORT					
Properties	Name	Second Support					
Property Groups	Description	Support for Second Warehouse					
Print Queues							h.
Workstations	Site ⁰	Second	~				
List	Area ⁰	Workstations	~				
New	Marshalling Location •		~				
Java							
PDF					Cancel	Clone	Update
File Resources							
Countries	Workstation properties						
Country Groups	Name	Value					
	despatch.note.print.queue					/	×
	package.label.print.queue	LABEL				1	×
	label.print.queue					1	×
	crossdock.print.queue					1	×
	shipment.batch.print.queue					1	×

Note the workstation properties which end ${\tt print.queue}$.

Property	Purpose	Possible values
despatch.note.print.queue	Despatch notes printed from packing screen	DOCUMENT_01 : routes to Print Server
label.print.queue	Courier labels from packing screen	LABEL_01 : routes to Print Server
shipment.batch.print.queue	Despatch notes printed via batch printing	DOCUMENT_01 : routes to workstation specific queue; No value: uses shipment batch default (see below)

Note also that similar values can be set for crossdock.print.queue (where a workstation is being used for cross *docking* shipments from incoming deliveries), and for shipatease.print.queue (where a print queue is being used to support integration with DPD shipatease).

In screenshot above, the properties label.printer and despatch.note.printer are being used to explicitly set the printer to be used for applet printing for labels and despatch notes respectively, from a particular workstation. This is to accommodate the situation where both labels and despatch notes are printed from the packing screen, but to different printers (typically, despatch notes would be routed to a A4 laser printer, while labels will be outputted to a smaller thermal printer).