



BatchMaster WEB Printing Service User Guide

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About the Manual

Purpose of the Manual

This user guide provides instructions for using BatchMaster Enterprise. The scope of the document is limited to training users on how various BatchMaster modules are inter-related, the purpose of various BatchMaster screens, and the procedural steps to maintain them. The training objective is to help the user get hands-on experience of how BatchMaster Enterprise functions.

This document aids as a hand-out during training and as an introduction to other manuals. It is not as descriptive as other accompanying manuals, but it is packed with necessary and important information that is required for someone to use BatchMaster Enterprise as a new user.

We designed the user guide based on experience obtained from numerous training sessions. This document aims to strengthen user knowledge on the functioning of BatchMaster Enterprise.




Target Audience

This document is intended for a vast group of people which may include Trainers, VARs, Customers, and even BatchMaster employees who are undergoing BatchMaster training. We hope it will be of immense use as a conceptual guide for Trainers, as a resource material for VARs and customers, and as a reference guide for existing BatchMaster Users and employees.

Organization

The user guide is organized module-wise to reduce bulkiness and enhance usability. Each module contains an overview of the module, concepts you must know before you begin using the module, an overview or purpose of the screen, how to maintain data in the screen, Key Points, and FAQs. Examples have been included to help you understand the logic better and maintain data quickly.

Symbols & Conventions

Symbol	Description
	Note
	Mandatory setting
	Tips

Convention	Description
Italicized (Sales Order Entry)	Module name, screen name & components
" " ("BME WEB Accounting Guide")	Reference document

Abbreviation	Description
BME	BatchMaster ERP



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1 DOCUMENT OVERVIEW

The BatchMaster Printing Services application is an add-on utility for BatchMaster Web. The application acts as an interface between the handheld devices and the ERP system.

The information scanned or entered by hand-held devices is updated into the ERP system. However, the hand-held devices, Android, IOS etc. cannot execute print commands. The BatchMaster Printing service acts as an interface in such scenarios.

In a typical ERP environment, the data flows from the ERP system into the hand-held devices (having an HTML5 Browser; recommended browser is Google Chrome latest version) can be used to update the data with respect to the changes in the actual inventory. Information from ERP systems like BatchMaster Web is accessed and updated using the hand-held devices, which sends the information to the BatchMaster Printing Service application. The application, based on the commands provided using the hand-held devices, prints the information contained in the .RPT files.

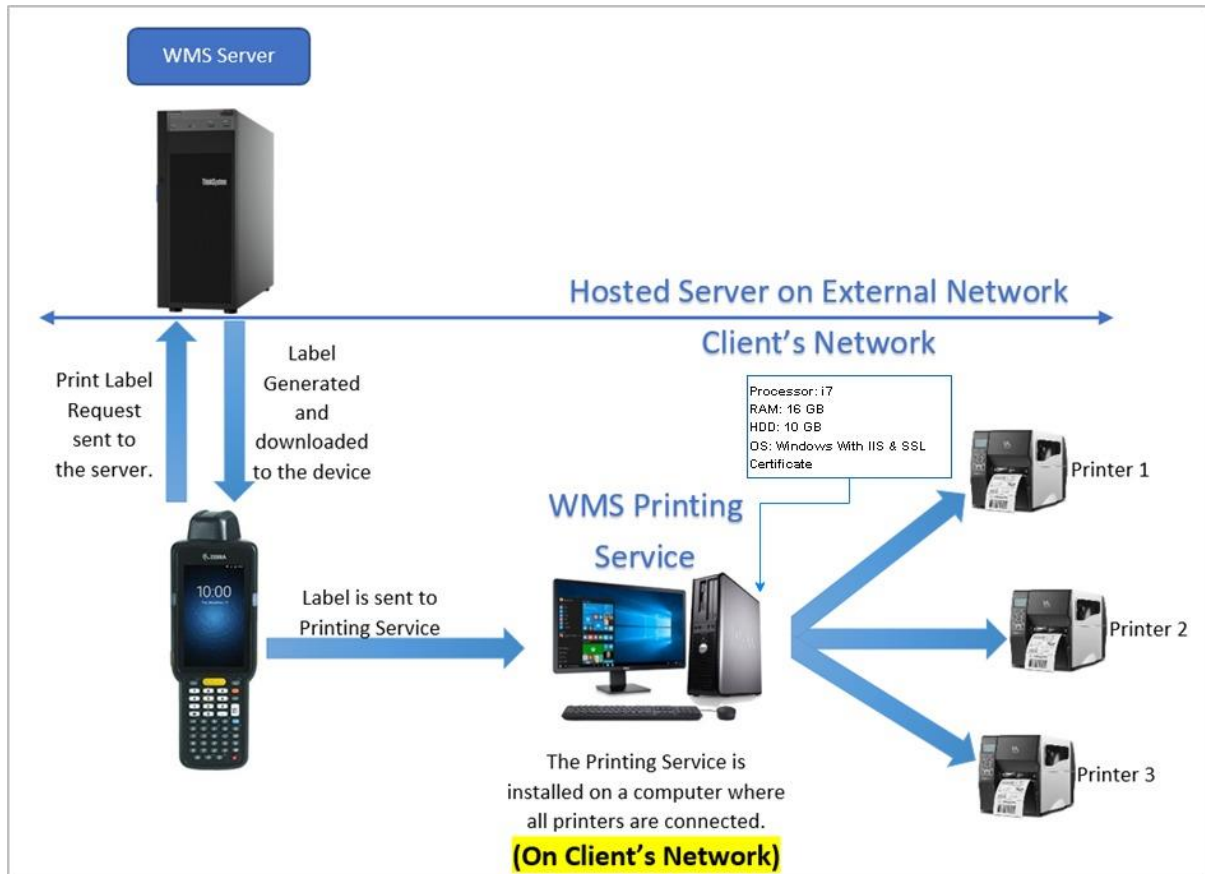
The BatchMaster Web Printing service application is easy-to-install, and can be installed on your local computer.



2 INSTALLATION AND CONFIGURATION

2.1 Printing System Architecture

2.2 Printing System Architecture (Hosted Environment)



2.3 Key Components & Their Roles

WMS (Warehouse Management System) Integration

- Manages and optimizes warehouse operations, including inventory tracking and order fulfillment.
- Ensures seamless printing of warehouse documents like pick lists, labels, and invoices.

Printing Service

- Enables automated and manual printing of documents from WMS and MES.
- Supports different printer configurations, print queue management, and log tracking.



User Roles & Permissions

- Defines access levels and responsibilities for different user types (Admin, Operator, Supervisor).
- Prevents unauthorized access and ensures process integrity.

System Configuration & Setup

- Specifies settings for printer selection, template management, and connectivity.
- Ensures smooth operation and integration with existing IT infrastructure.

3 PREREQUISITES

Acrobat Reader 32 bit is needed for the WMS Printing Services.

- The BatchMaster Printing Service is fed with the information about reports that need to be printed. Each server may have different requests for different printers. Therefore, BatchMaster recommends you add all the printers in your organization to the computer on which you have installed the BatchMaster Printing Service.
- The computer on which the BatchMaster Printing Service application is installed is recommended to be kept switched on. If you have security concerns, you can log into the computer and leave it locked. The application is designed to run in the background and does not require user assistance.
- The BatchMaster Printing Service application is designed to be added to *Start Up* as part of the standard installation process, so the user does not need to run the application manually.
- While deploying the Printer Service in the customer's network wherein WMS is hosted by BatchMaster (i.e. AWS, AZURE, etc), if the version of Google Chrome installed on their devices or workstations is 94 or higher then you need to make the below settings before using the Printer Service.
- A machine having following configuration to host printing service:
 - Processor: i7
 - RAM: 16 GB
 - HDD: 10 GB
 - OS: Windows With IIS
 - SSL Certificate
 - Valid Domain/Sub-Domain with SSL Certificate configured and pointing to printer server Machine/VM (This need to configured by Customer's Network team before BME Web receive printing information from printer)



4 INSTALLATION AND CONFIGURATION

4.1 Installing BatchMaster Web Printing web Service

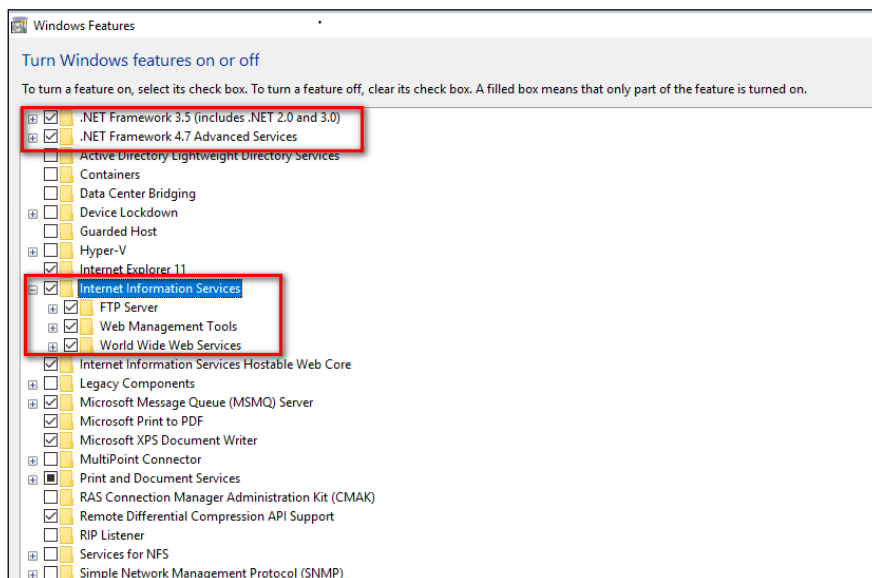
BatchMaster web service printer Server is based on IIS Web services. The WMS printing Web service installation and configuration is a three-step procedure.

1. [IIS Components installation](#)
2. [Printer Server Web Service Installation](#)
3. [Configuring Web Service](#)

4.1.1 Installing IIS Components

4.1.1.1 Configuring IIS on a Windows 10 system

1. Open the *Program and Features* part of Control Panel.
2. Under *Programs and Features*, click *Turn Windows features on or off*.
3. The Windows features screen pops up.
4. Select all the features of *.Net Framework 3.5* and *.Net Framework 4.7*.
5. Click on the *Internet Information Services* check box, expand it and check all its *Features*, *Components and Sub-Components*.

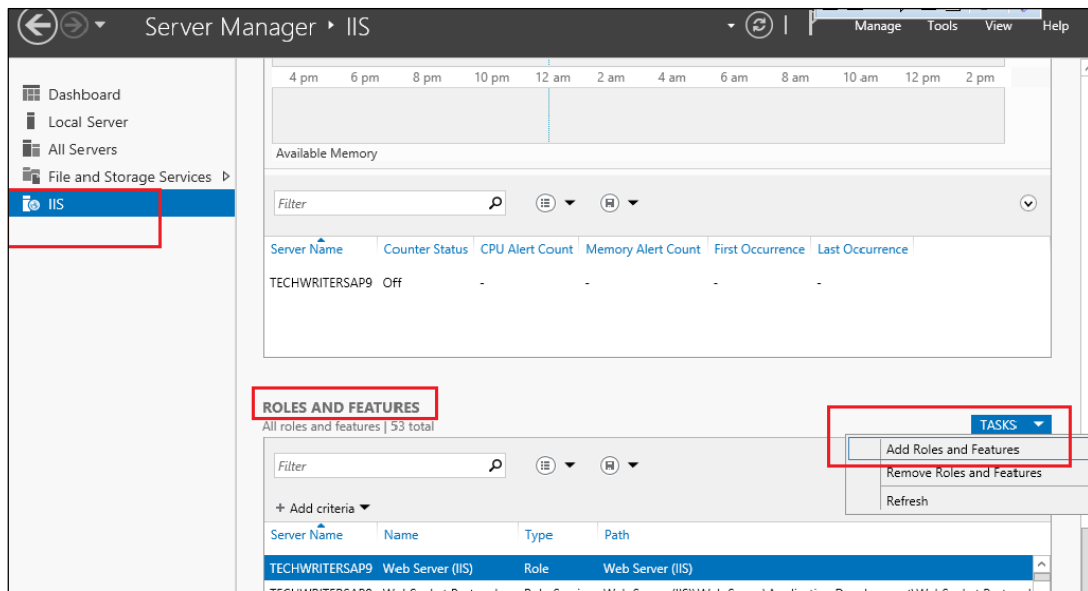


6. Click *OK* to complete the installation of new features.



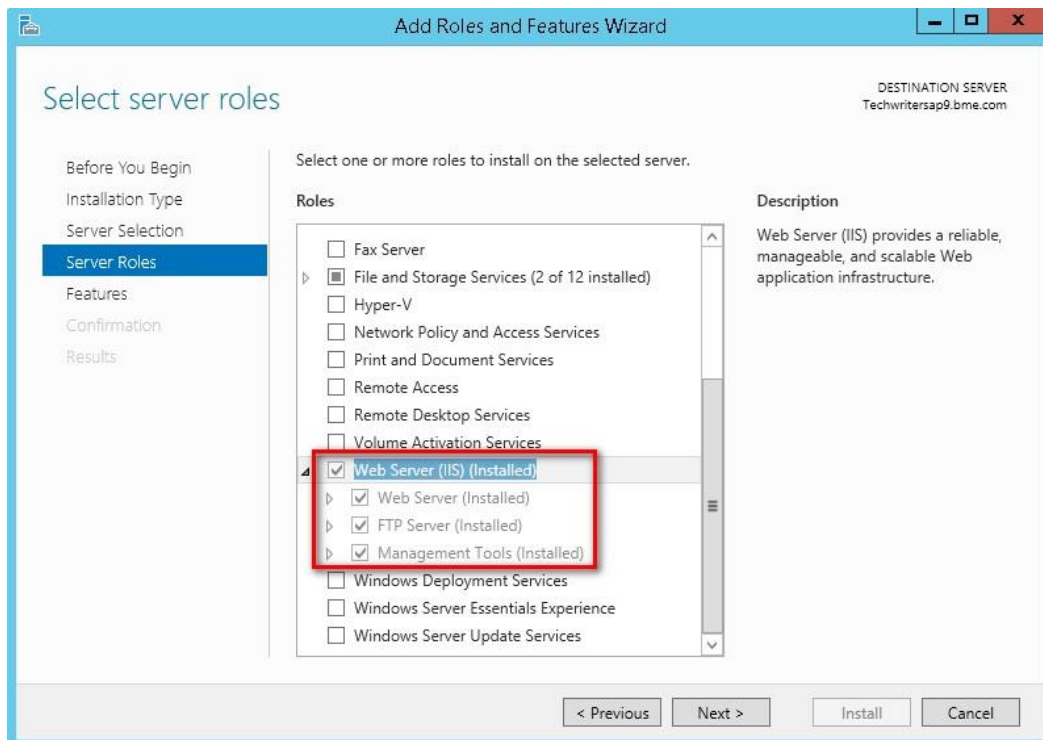
4.1.1.2 Configuring IIS on Windows Server 2008 R2

1. Click **Start** → **All Programs** → **Administrative Tools** → **Server Manager**.
2. In the *Server Manager* window, click on *IIS*
3. Scroll down to *Roles and Features*.
4. Open the *Tasks* drop down and click *Add Roles and Features* option.

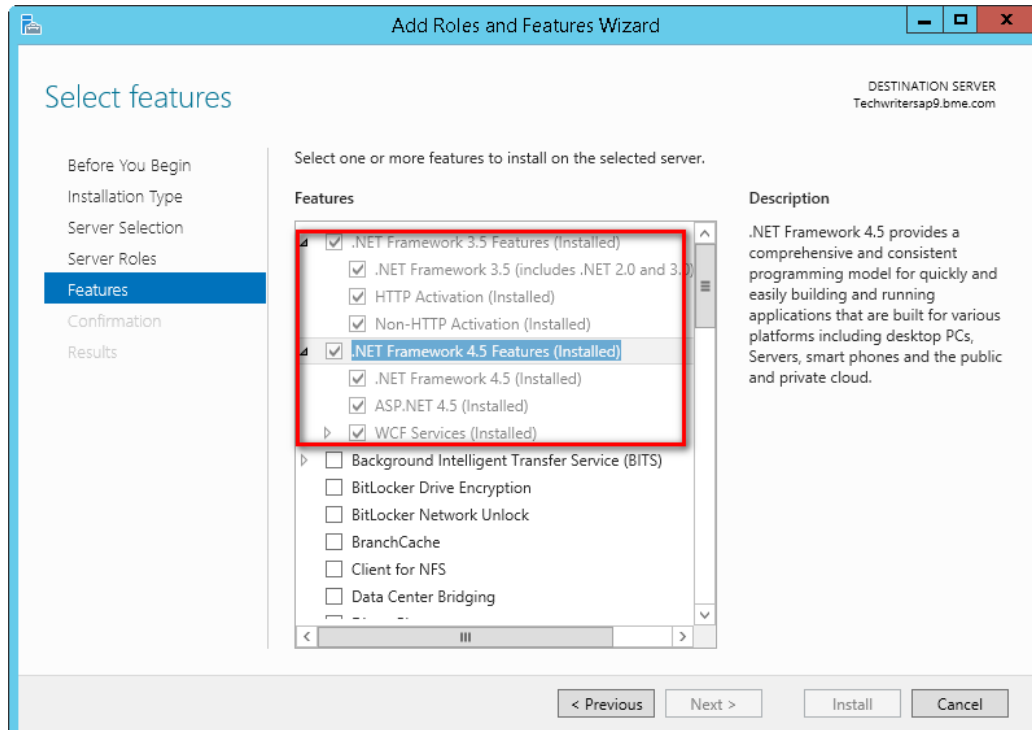




- On the *Select Server roles* page, select all the components of the *Web Server (IIS)*.



- On the *Select Features* page, select all the features of *.Net Framework 3.5* and *.Net Framework 4.7*.

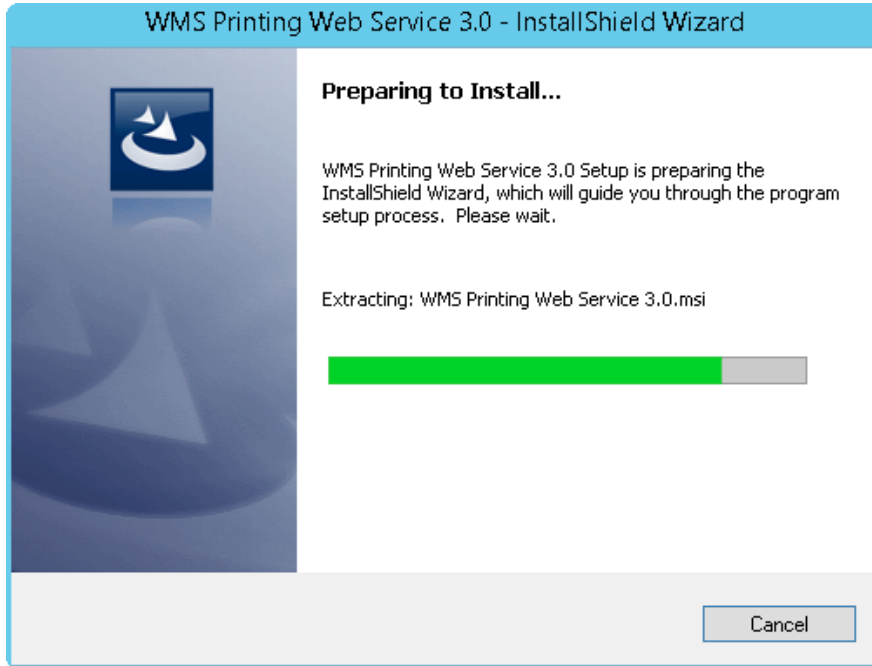


- Click the *Install* button to install the selected *Roles and Features*.

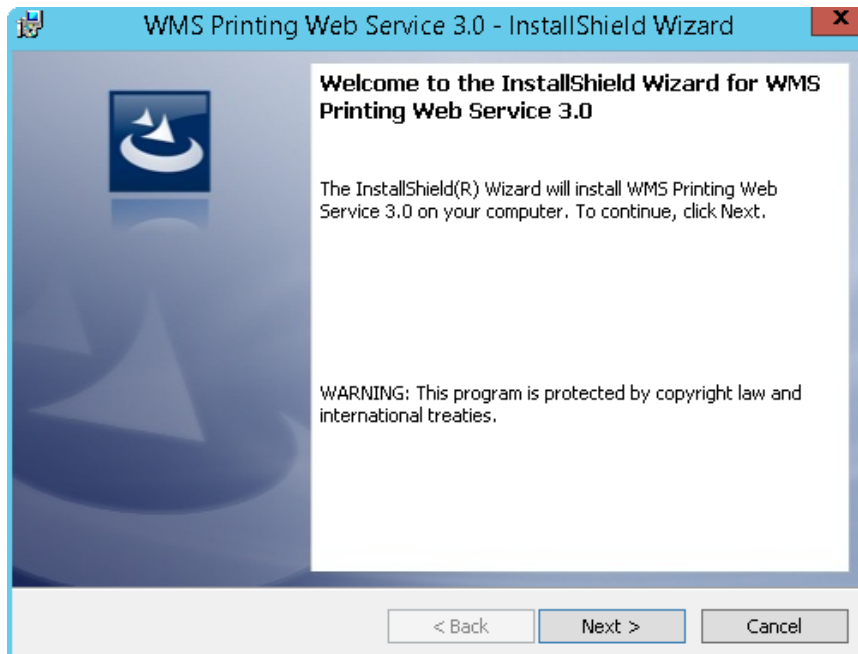


4.1.2 Installing WMS Printing Web Service

1. Run the *WMS Printing Web Service* executable from the setup folder. The System starts preparing the installation wizard.

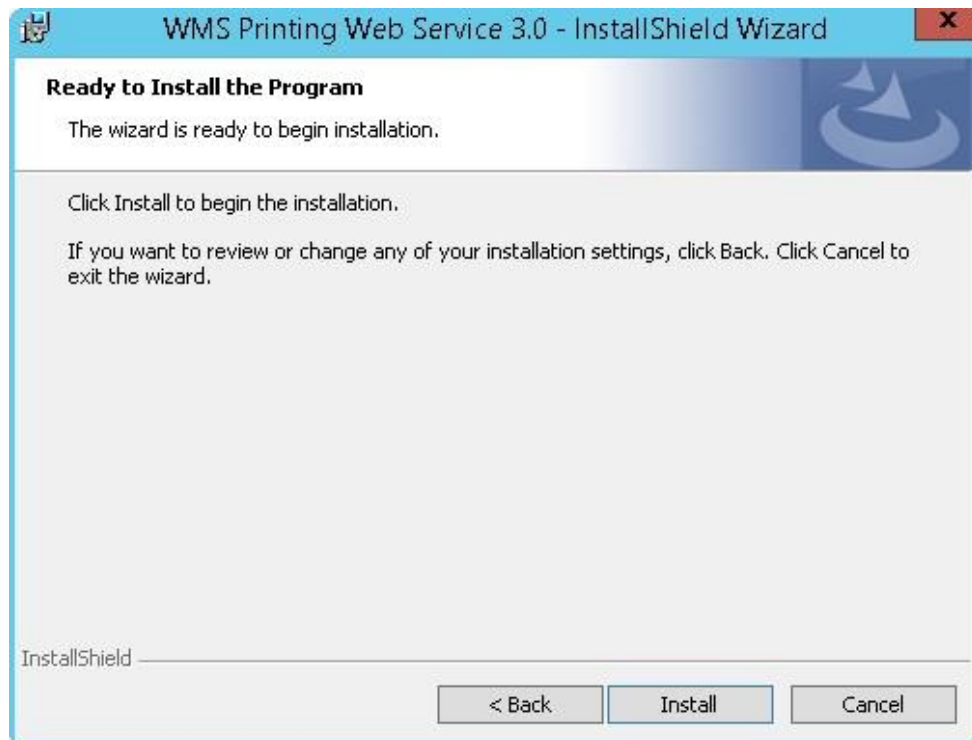


2. The Welcome screen appears. Click *Next*.

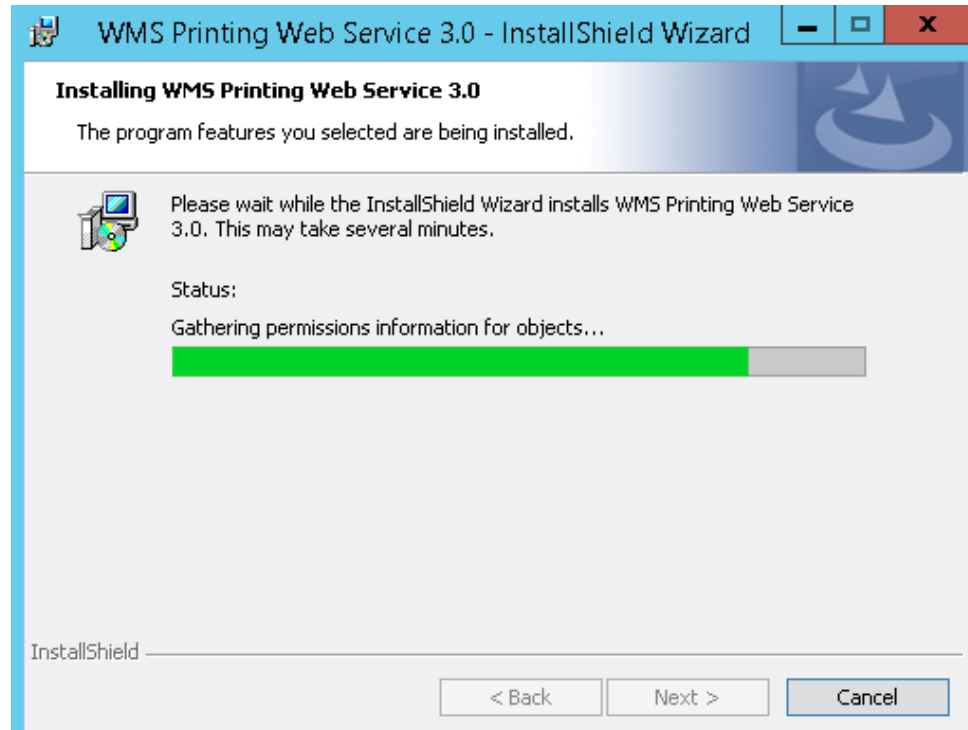




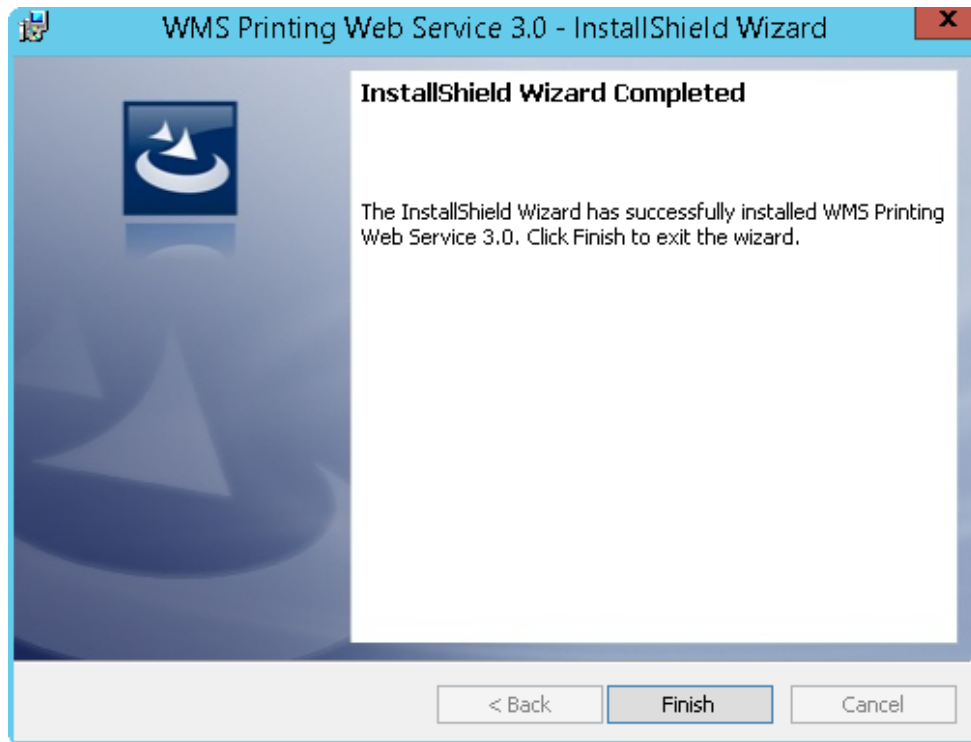
3. Click *Install* to begin the installation.



4. The installation advances. The color bar displays the progress.



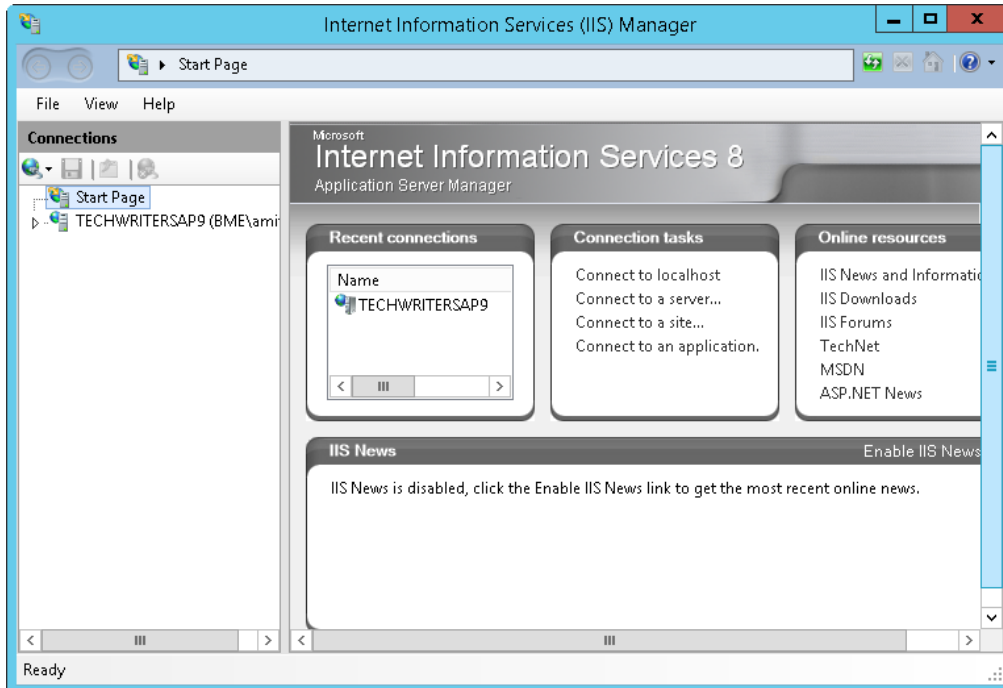
5. Finally, click *Finish* to complete the installation.



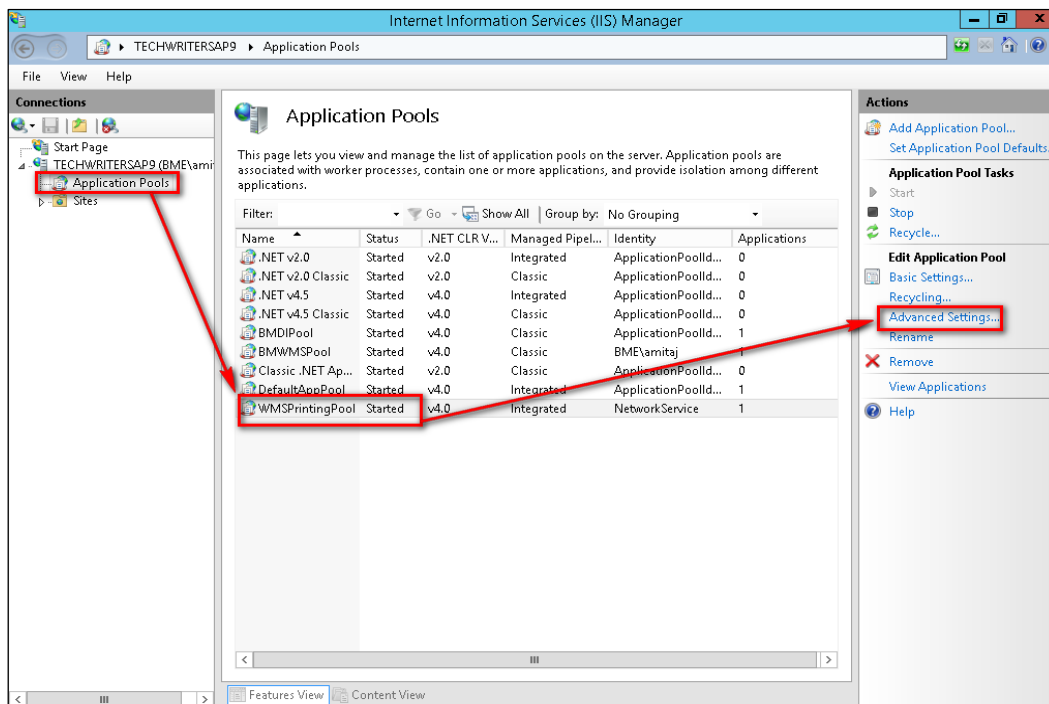


4.1.3 Configuring WMS Printing Web service

1. Open the *Run* command window and Run the *Inetmgr* command. This will open the *IIS Manager* screen.

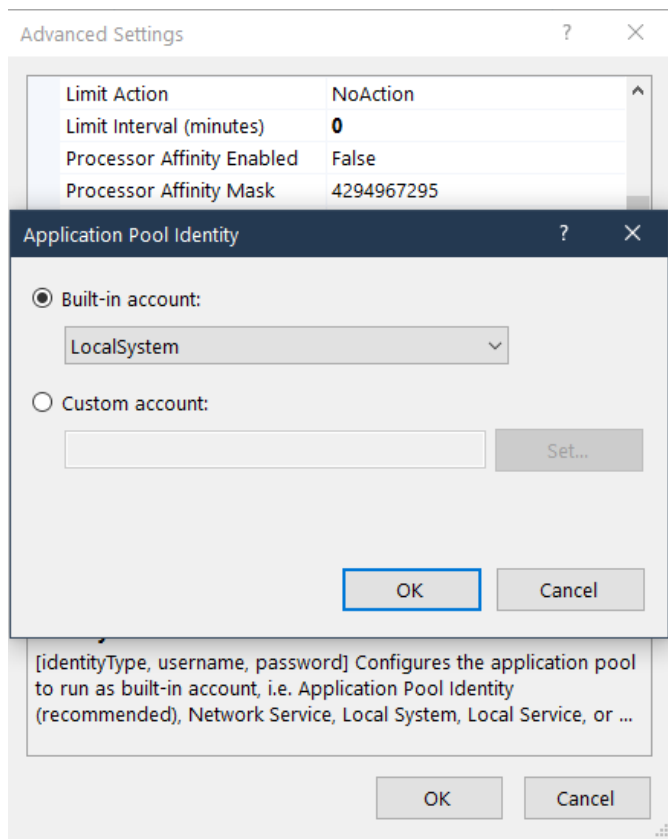


2. On the *IIS Manager* screen, select *Application Pool* → *WMSPrintingPool* → *Advanced Settings*





- To configure the Application Pool to run on the local system account, click the *Browse* button displaying next to the *Identity* type.



5 Printer & Label Setup

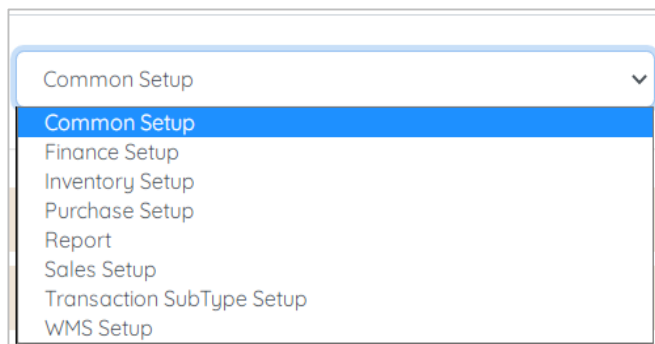
5.1 Configuring Printing Options - Module Setup

The following options are relevant to printing on the *Module Setup* screen.

Go To: Configuration → Configuration → Module Setup.

With *Module Setup*, you can maintain default printing related parameters under the following options:

- **WMS Setup**





5.1.1 WMS Setup option - Report Setup Section

Parameter Description	Default Value	Help
WMS Report	Download	?
PO Receipt- Default No. of Copies	2	?
Sales Return- Default No. of Copies	3	?
SO Pick Lot List- Default No. of Copies	4	?
Print BOL- Default No. of Copies	5	?
COA Reports- Default No. of Copies	6	?
Packing Slip- Default No. of Copies	7	?
Shipping Label Report- Default No. of Copies	8	?
Item Label- Default No. of Copies	9	?
Bin Label- Default No. of Copies	10	?
Pallet Label- Default No. of Copies	1	?
QC Label- Default No. of Copies	11	?
Receipt Report- Default No. of Copies	12	?
Sales Material Picking- Default No. of Copies	13	?

Module Setup

Report Setup ^

Sales Picking Setup v

Activate Windows
Go to Settings to activate Windows.

Save Close

WMS Report: Select the desired option to generate the WMS Report.

- The *Download* option allows you to save the WMS Report in PDF format. The PDF file will be saved to your download directory.
- The *Printer Server* option allows you to print the WMS Report onto the attached printer. The system will redirect the print request to the defined printer. You can define or select the printer at the *Default Printer Parameter* field.

PO Receipt- Default No. of Copies: This field specifies the default value for the *No. Of Label* field as appear at the *PO Receipt* screen.

Sales Return- Default No. of Copies: This field specifies the default value for the *No. Of Label* field as appear at the *Sales Return* screen.

SO Pick Lot List- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *SO Pick Lot List* screen.

Print BOL- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *Print BOL* screen.

COA Reports- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *COA Reports* screen.



Packing Slip- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *Packing Slip* screen.

Shipping Label Report- Default No. of Copies: This field specifies the default value for the *No. Of Copies* field as appear at the *Shipping Label Report* screen.

Item Label- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *Item Label* screen.

Bin Label- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *Bin Label* screen.

Pallet Label- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *Pallet Label* screen.

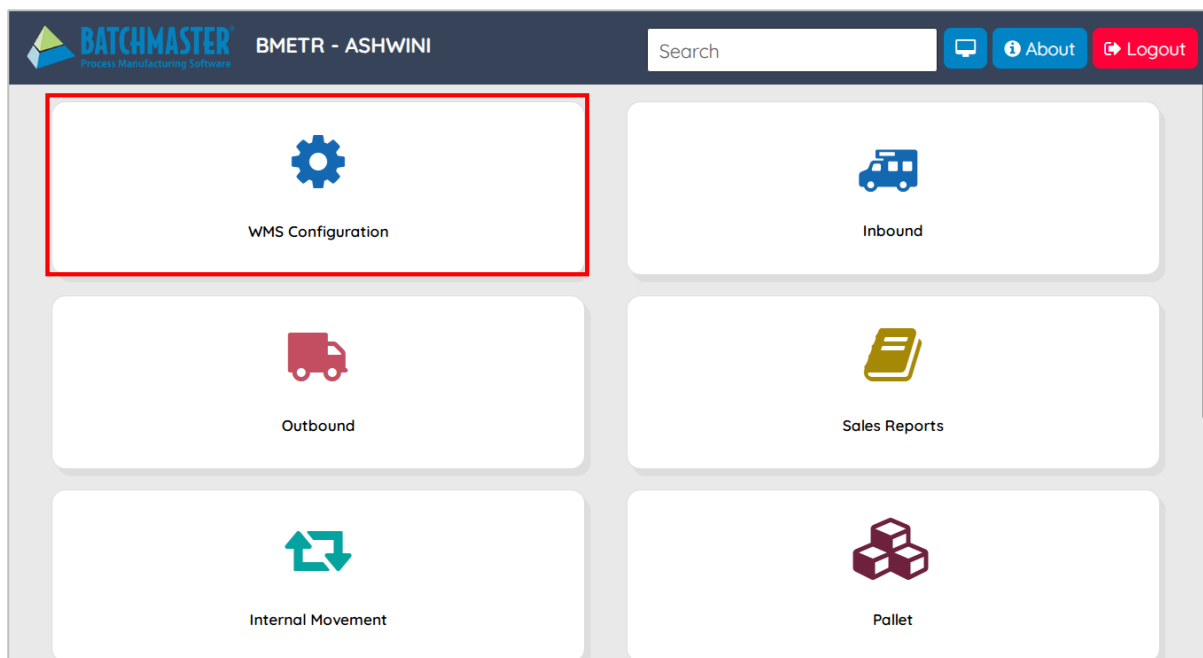
QC Label- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *QC Label* screen.

Receipt Report- Default No. of Copies: This field specifies the default value for the *No. of Copies* field as appear at the *Receipt Report* screen.

Sales Material Picking- Default No. of Copies: This field specifies the default value for the *Number Of Label* field as appear at the *Number Of Label* window. The *Number Of Label* window is accessible by clicking the *Print* button available on *Dropped* tab of the *Sales Material Picking* screen.



5.2 BatchMaster Web - WMS Profile



Under the WMS Configuration Module the following screens are relevant to printing:

- [Printer Server Master](#)
- [Printer Setup](#)

5.2.1 WMS Configuration- Printer Server Master Screen

This screen allows you to associate the printer server with different printers of the company. The server(s) list maintained here will be used on the *Printer Setup* screen. While printing the reports of WMS, this is a one-time setting that you need to maintain prior to using the printer.

Go To: WMS Configuration → Printer Server Master.

5.2.1.1 Printer Server Master Screen

To associate the printer server with different printers, tap the *Printer Server Master* option from the main menu. The system displays *Printer Server Master* Screen.



Printer Server Master
? x

Server Name *

Add Line

Action	Printer Name
	<input style="width: 100%;" type="text" value="Cloud Server"/>

Save
New
Copy
Delete
Search
Close

Screen Fields:

Printer Server Master: Mandatory field represents the unique key for the printer. It is an editable field that supports alphanumeric characters. This server will be used on the *Printer Setup* screen to configure different printers for report printing.

Add Line: Tap this button to add a new line in the grid. You can add multiple printers for printing the reports.

Action : Tap this button to delete the printer line from the grid.

Printer Name: This field specifies the name of the printer that will be used for printing the label/reports of WMS.

5.2.1.2 Maintaining Printer Server Master

1. Tap the *Printer Server Master* option to open the *Printer Server Master* screen.
2. Enter the name of the printer server in the *Printer Server Master* field.
3. Tap the *Add Line* button to add the printer. The system will insert a new row in the grid wherein, you can specify the printer details.



4. Enter the printer name in the *Printer Name* field.
5. Tap *Save* to save the record.

5.2.2 WMS Configuration- Printer Setup Screen

The *Printer Setup* screen lets you maintain the default parameters used for printing a document. The settings done on this screen allow the printing of labels/reports for an item. The parameters can be defined at the user level. The report name maintained here is associated with a number of screens, thus providing instructions to BatchMaster web about which printer and tray are to be used to print the labels/reports for a particular item.

Go To: WMS Configuration → Printer Setup.

5.2.2.1 Printer Setup – Add Mode

To maintain the default printer setup, tap the *Printer Setup* option from the main menu. The system displays the *Printer Setup* screen.

Printer Setup
? ×

Printer Parameter *	<input type="text" value="PP01"/>
Report Parameter	<input type="text" value="Itemlabel_WMS"/> <input type="button" value="Q"/>
Report Name	<input type="text" value="Item Label"/>
User ID	<input type="text"/> <input type="button" value="Q"/>
Printer Server *	<input type="text" value="A08"/> <input type="button" value="Q"/>
Printer Name *	<input type="text" value="Canon Pixma"/> <input type="button" value="Q"/>
Orientation	<input type="text" value="Default Orientation"/> ▼

Save
New
Copy
Delete
Search
Close

Screen Fields:



Printer Parameter: Mandatory field which represents unique key for the printer. It is an editable field that supports alphanumeric characters.

Report Parameter: Mandatory field which represents the unique key for the report. It is an editable field that supports alphanumeric characters. You can choose the parameter using the lookup provided next to the field. The lookup will obtain all the created report parameters of the BatchMaster web you can choose from.

Report Name: This field displays the associated report name of the report parameter. Once you select the report parameter on the respective field the system defaults the report name.

User ID: This field specifies the name of the authorized user who is allowed to print the report. You can choose the WMS user using the lookup provided next to the field. The lookup will obtain all the active BatchMaster Web users you can choose from.

Printer Server: Mandatory field which represents unique key for the printer. You can choose the printer server name using the lookup provided next to the field. The lookup will obtain all the printer servers of the BatchMaster WMS you can choose from. This is a mandatory field.

Printer Name: Mandatory field which represents unique name. You can choose the printer name using the lookup provided next to the field. The lookup will obtain all the printers of the BatchMaster WMS you can choose from. This is a mandatory field.

Printer Tray: It is used to specify the number of tray to be used by the above selected printer. This is a mandatory field.

Orientation: The drop-down field provides selection of the orientation as *Default Orientation*, *Portrait* or *Landscape* for the above selected printer. This is a mandatory field.

5.2.2.2 Maintaining Printer Setting

1. Tap the *Printer Setup* option to open the *Printer Setup* screen.
2. Specify the printer parameter.
3. Select the required report parameter.
4. Enter a Friendly Report Name.
5. Select the *User ID*, *Printer Server* and *Printer Name*.



6. Select the Printer tray.
7. Select the required orientation using the dropdown provided next to the *Orientation* field.
8. Tap on the *Save* button to save the record.

5.3 Example of Printing Shipping Label Report

In a multi-plant operation, when items are transferred from one warehouse (e.g., Bhopal) to another (e.g., MAIN), it's essential to re-label items with updated location and traceability information. Using this screen:

- The user selects a range of items (e.g., from 3-0102-000L to 3-0146-000NT).
 - They define the movement from Bhopal to MAIN.
 - Select Lot No., quantity is automatically fetched.
 - By selecting **Print Quantity**, the system will generate 783 labels for precise tracking at unit level.
1. Access the Item Label screen.

The screenshot shows the 'Item Label' configuration screen. It includes the following fields and values:



- Parameter:** (Empty)
- Printer Parameter:** PL01
- Document Type:** Item Label (selected), Purchase Receipt, Shipment, Production
- Item Key From:** 3-0102-000L
- Item Key To:** 3-0146-000NT
- Location From:** BHP (Bhopal)
- Location To:** MAIN
- Lot No.:** OI-230hhh-061119-01175
- Quantity:** 783,000
- No. of Copies:** 1
- Print Quantity:**

Buttons at the bottom: Process, Close.

2. Define Parameters:
 - Printer Parameter: Specify printer-specific parameters using the lookup.
3. Select Document Type: Ensure the Item Label tab is selected.
4. Specify Item Key Range:



- Item Key From: Enter the starting item key in the range using the lookup. In this example, it's 3-0102-000L.
 - Item Key To: Enter the ending item key in the range using the lookup. In this example, it's 3-0146-000NT.
5. Specify Location Range:
 - Location From: Enter the starting location using the lookup. In this example, it's BHP.
 - Location To: Enter the ending location using the lookup. In this example, it's MAIN.
 6. Specify Lot Number: Select the specific lot number associated with the items using the lookup. In this example, it's OI-230hhh-061119-01175.
 7. Specify Quantity: Enter the quantity of items for which you need labels. In this example, it's 783.000 which is the lot quantity that can be edited if required.
 8. Specify Number of Copies: Enter the number of labels you want to print for each item. In this example, it's 1.
 9. Print Quantity: Ensure the Print Quantity checkbox is checked if you want the quantity to be printed on the label.
 10. Process the Print Job: Click the Process button to initiate the label printing.

ITEM: 3-0102-000L  3-0102-000L Location: MAIN Expiration: Lot: OI-230hhh-061119-01175 	Originating Doc # Receiving Date 03-01-19 V. Lot# Vendor ID Quantity 783.000
---	--

5.4 Other Screens Supporting Printer Integration

1. *Outbound* Module:
 - a. *Sales Material Picking* (Print option provided on the *Dropped* tab.)
 - b. *Purchase Return*
2. Sales Reports Module:
 - a. *Print BOL*

