



## Lasernet Cloud Print Connector 1.2: LNEMF Print

- 2024-03-26 - Comments (0) - Lasernet FO Connector FAQs

# Lasernet for Dynamics 365

Cloud Print Connector now includes the option to print LNEMF files which do not require installing different printer drivers (brands) on the Lasernet server.

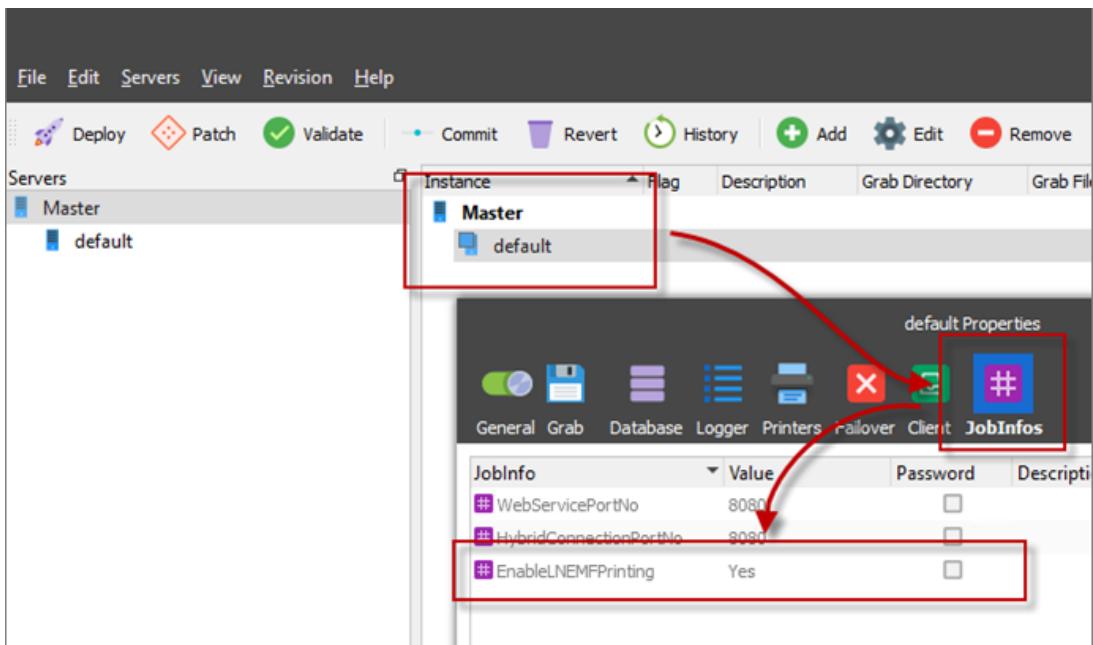
The following formats are supported through Cloud Print Connector:

Format	Description
<b>PDF</b>	Used when re-printing documents from the Lasernet Archive or when printing attachments.
<b>RAW</b>	When using the EMF to RAW (Cloud Print Driver) module in Lasernet - requires the different printer drivers/brands to be installed at the Lasernet Server.
<b>LNEMF (EMF)</b>	Used when printing directly from the Form/Print-sheet and does not require the different printer drivers/brands to be installed at the Lasernet Server (printer <b>independent</b> ).

### Global JobInfo

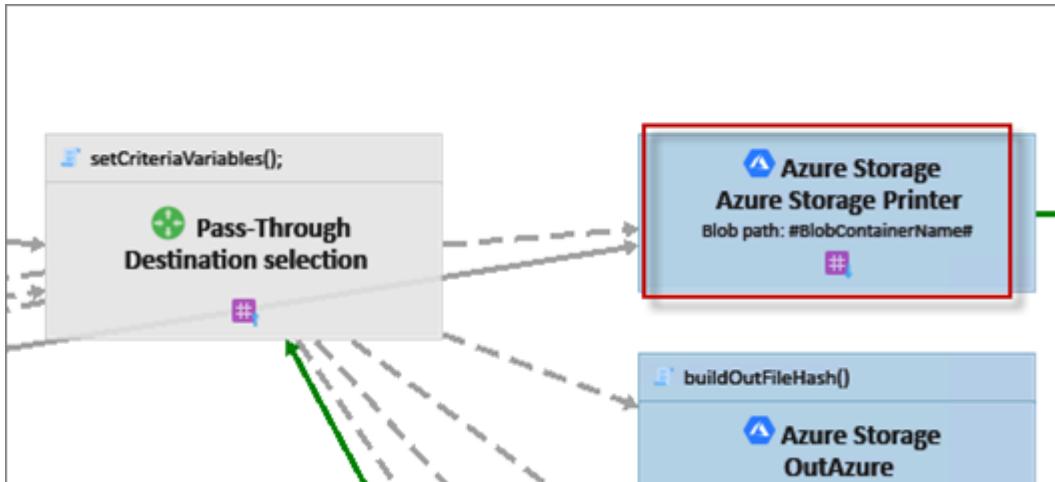
An additional global JobInfo is introduced in the standard demo setup to identify whether RAW or LNEMF is to be used for printing.

### EnableLNEMFPrinting



Printing the LNEMF (EMF) files requires adjustments to the Lasernet configuration.

The **EMF to RAW** module is skipped, and documents can get passed directly from a print sheet (Form) into the Azure Storage Printer (storage used by Cloud Print Connector).



It is important to encode (Base64 Encode) the document (LNEMF) before parsing it to Azure Storage Printer. ZIP is not currently supported when printing the LNEMF files, but it would significantly reduce the file size once introduced.

Such information as Orientation, Paperwidth, Paperheight, copies, etc. is added to **Pre JobInfos** at Azure Storage Printer which contains the contract for Cloud Print Connector.

### Printer Contract

The printer contract value is found in **Pre JobInfos > xmlPrinterSettings > Value:**

The screenshot shows the Azure Storage Printer Properties dialog with the Pre JobInfos tab selected. A red box highlights the 'xmlPrinterSettings' row in the list of properties. A detailed configuration window is open for this row, also with 'xmlPrinterSettings' selected. The 'Value' tab is active, showing the XML code for the printer settings. The 'Criteria' tab is also visible.

Name	Value	Replace	LogLevel	Criteria
# DocumentName	#ReportName#	<input checked="" type="checkbox"/>	JobInfo	
# DocumentName	#OutFileOriginalName#	<input checked="" type="checkbox"/>	JobInfo A=DataFormat <> RAW [A]	
# DataFormat	PDF	<input checked="" type="checkbox"/>	JobInfo A=DataFormat <> RAW, B=ArchiveFileName = false [A AND B]	
# DataFormat	LNEMF	<input checked="" type="checkbox"/>	JobInfo A=DataFormat = EMF, B=EnableLNEMFPrinting = Yes [A AND B]	
# xmlDocumentType	<DocumentType i:nil="true"/>	<input checked="" type="checkbox"/>	JobInfo	
# xmlDocumentType	<DocumentType>#DataFormat#</DocumentType>	<input checked="" type="checkbox"/>	JobInfo A=DataFormat <> RAW [A]	
# xmlPrinterSettings	<PrinterSettings xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">	<input checked="" type="checkbox"/>	JobInfo	
# JobData	<PrintingContract xmlns="http://schemas.datacontr...	<input checked="" type="checkbox"/>	Debug	
# MimeType	text/xml	<input checked="" type="checkbox"/>	Debug	

```

<PrinterSettings
    xmlns:a="http://schemas.microsoft.com/2003/10/Serialization/Arrays">

    <a:KeyValueOfstringstring>
        <a:Key>PaperSource</a:Key>
        <a:Value>#PaperSource#</a:Value>
    </a:KeyValueOfstringstring>

    <a:KeyValueOfstringstring>
        <a:Key>Copies</a:Key>
        <a:Value>#Copies#</a:Value>
    </a:KeyValueOfstringstring>

    <a:KeyValueOfstringstring>
        <a:Key>Orientation</a:Key>
        <a:Value>#Orientation#</a:Value>
    </a:KeyValueOfstringstring>

```

```
<a:Value>#Orientation#</a:Value>
</a:KeyValue0fstringstring>

<a:KeyValue0fstringstring>
<a:Key>PaperHeight</a:Key>
<a:Value>#PaperHeight#</a:Value>
</a:KeyValue0fstringstring>

<a:KeyValue0fstringstring>
<a:Key>PaperWidth</a:Key>
<a:Value>#PaperWidth#</a:Value>
</a:KeyValue0fstringstring>

<a:KeyValue0fstringstring>
<a:Key>PrintQuality</a:Key>
<a:Value>#PrintQuality#</a:Value>
</a:KeyValue0fstringstring>

<a:KeyValue0fstringstring>
<a:Key>ColorMode</a:Key>
<a:Value>#ColorMode#</a:Value>
</a:KeyValue0fstringstring>

<a:KeyValue0fstringstring>
<a:Key>DuplexMode</a:Key>
<a:Value>#DuplexMode#</a:Value>
</a:KeyValue0fstringstring>
</PrinterSettings>
```

And for follow-me print (**WinPrintNotifyName**, **WinPrintUserName**)

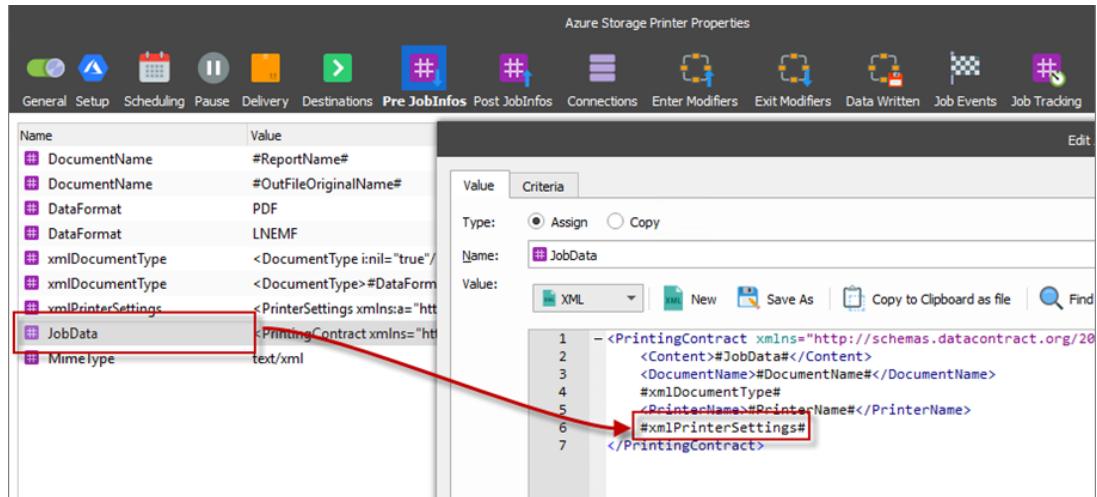
```
<a:KeyValue0fstringstring>
<a:Key>WinPrintNotifyName</a:Key>
<a:Value># WinPrintNotifyName#</a:Value>
</a:KeyValue0fstringstring>

<a:KeyValue0fstringstring>
```

```

<a:Key>WinPrintUserName</a:Key>
<a:Value>#WinPrintUserName#</a:Value>
</a:KeyValueOfstringstring>

```



## Supported Printer Properties

- FormName
- Orientation (landscape or portrait)
- PaperWidth
- PaperHeight
- Scale
- Copies
- PaperSource (number, or a paper sources, like "Tray 1")
- PrintQuality
- ColorMode (color or monochrome)
- DuplexMode (simplex, horizontal or vertical)

	<b>LNEMF</b>	<b>PDF</b>	<b>RAW</b>
<b>FromPage/ToPage</b>	Supported [1]	Supported	Not supported [3]
<b>PrinterSettings</b> Copies/duplex/PaperSource etc.	Supported	Supported [2]	Not supported [4]
<b>Follow me</b> WinPrintUserName/WinPrintNotifyName	Supported	Currently not supported [5]	Supported

[1] If the printer supports it.

[2] But looks like the settings are only used for rendering and not actually being sent to the printer.

*Ex.: if copies are 2, then two prints are printed, however, the printer only sees one copy.*

[3] Requires that we either parse the RAW data, or Lasernet splits the commands into pages, i.e. create an LNRAW contract like LNEMF.

[4] The printer expects settings to be part of data (commands), so settings are ignored.

[5] Print job id is not returned, so requires additional work.

## Scripts

*EnableLNEMFPrinting* is used within the LAC function:



The script within the Lasernet Connector function

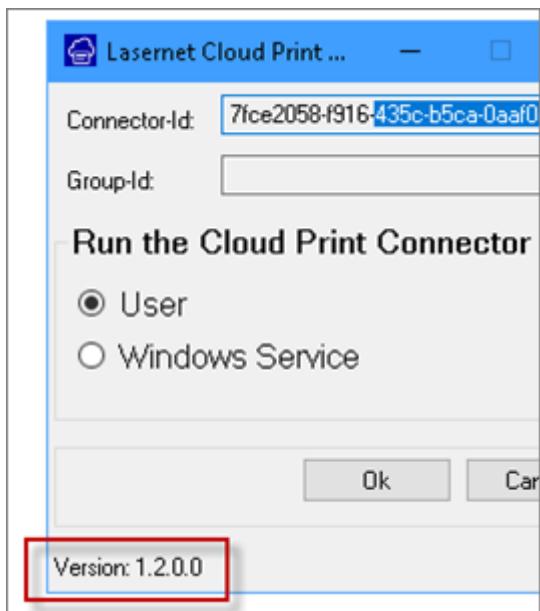
}

```
// Need to Base64 encode JobData when printing allowed LNEMF
else if ((prefix.toLowerCase()=='Output'.toLowerCase() ||
prefix.toLowerCase()=='CustomOutput'.toLowerCase()) &&
job.getJobInfo('DataFormat').toLowerCase() =='EMF'
.toLowerCase() &&
job.getJobInfo('EnableLNEMFPrinting').toLowerCase() ==
'Yes'.toLowerCase()) // when main file
{
    if (job.getJobInfo(prefix+'JobDataEncoded').toLowerCase() != 'Yes'.toLowerCase())
    {
        logger.logEvent(0, 'Base64 Encoding main');
        job.setJobData(Base64.encode(job.getJobData())); // double
encoding?
        job.setJobInfo(prefix+'JobDataEncoded', 'Yes', true);
    }
}
logger.logEvent(0, 'EnableLNEMFPrinting=' +
job.getJobInfo('EnableLNEMFPrinting'));
// Setting document index to next
getSetIndex(prefix, documentIndex);
```

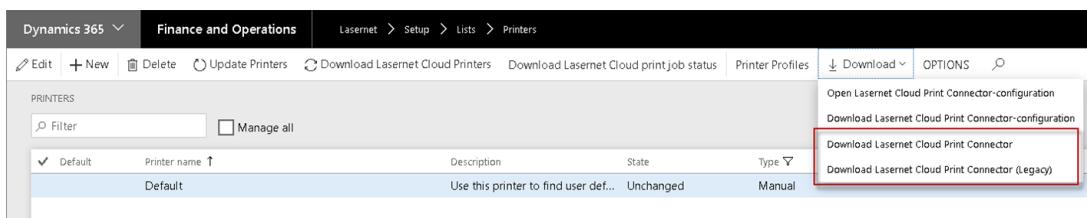
}

## Prerequisite

Enabling the print process of the LNEMF files requires downloading and installing a new version of Cloud Print Connector which is included in Lasernet Connector for Microsoft Dynamics 365 Finance and Operations 6.7.0 (version 1.2.0.0).



Cloud Print Connector can be downloaded with the help of the Download menu available on the Printers page (**Lasernet > Setup > Lists > Printers**).



Click [here](#) to download the package.