

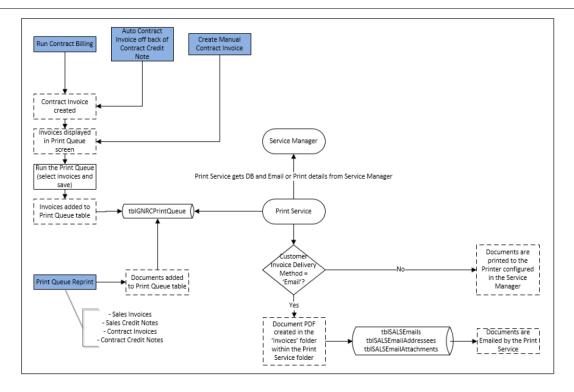
# **BPO PRINT SERVICE**

The Print Service prints or emails Invoices and Credit Notes.

Print Service (Creates and Sends Emails based on unprocessed records in tbIGNRCPrintQueue

- <sup>°</sup> Gets Environment details from Service Manager.
- Monitors Print Queue table (records created from Print Queue / Print Queue Reprint)
- Document PDF saved to 'Invoices' folder within the Print Service folder
- ° Print / Email based on Customer Invoice Delivery Method
- Where Invoice Delivery Method is Print will print to the Printer defined in the Service Manager
- RelatedToTypes in tblSALSEmails:
  - ° CINV Sales Invoice
  - ° CRNT Sales Credit Note
  - ° CTIN Contract Invoice
  - ° CTCN Contract Credit Note





## REQUIREMENTS

 This local service console application will be installed by your CO3 Analyst or BPO System Administrator on your company's application server, and run automatically through Windows Services at the interval defined in the Environment file. Confirm with your System Administrator to check on the interval configured for your company.

## INSTALLATION

- Double click on the 'RSI\_PrintService' install file.
  - **Note**: Check that you have the latest version compatible with your version of BPO.



I         Image         v6.0.0.1	×
File Home Share View Application Tools	~ (
← → × ↑ 📑 > This PC > Local Disk (C:) > CO3Projects > CO3_Products > RSI_PrintS	rvice > v6.0.0.1 ~ Ö 🖉 Search v6.0.0.1
3D Objects	
Desktop	
🗄 Documents	
Music RSI_PrintService_	
Pictures x64_Setup_v6.0.0.	
Videos 1.msi	
Local Disk (C:)	
\$Windows.~WS	
SWinREAgent	
aecfa45161473d9798dae72dd5cce2	
Backup	
CanoScan	
CO3Projects	
DRIVERS	
EvoBICMetaData	
Gund.000	
GitHub	
📙 inetpub	
📙 Intel	
OneDriveTemp	
PerfLogs	
Program Files	
Program Files (x86)	
Program Files CO3	
ProgramData	
SQL2019	
📙 Temp	
📑 TfsData	
Users 🗸	
1 item 1 item selected 44.1 MB	Capture screenshot.

- The Installation Wizard will open.
- Click on Next.

📕 İ 🛃 🖬 🖛 İ v6.0.0.1		- 🗆 ×
File Home Share View		~ 🔞
← → ~ ↑ 🔒 > This PC → Local Disk (C:)	> CO3Projects > CO3_Products > RSL_PrintService > v6.0.0.1 v 👌 🖉 Search v6.0.0.1	
# Quick access     ↓ Downloads     log     log     v2.5.0.x     OneDrive - Personal     This PC     Jo Objects     Desktop	RSI PrintService rd4_Setup_r6.0.0. 1.msi # BPO Print Service - × Welcome to the BPO Print Service Setup Wizard	
Documents Documents Documents Music Pictures Videos Local Disk (C:)		
🥐 Network	VMRPNINC: This computer program is protected by copyright law and international treates: Unsubtracted diplocation of maintoing one reading and the set of the set o	
1 item		

• The default location for installation is:



### C:\Program Files\CO3 Technologies (Pty) LTD\RSI Print Service

It is recommended that you keep this default location. Keeping a standard will make upgrades easier.

- Ensure that *Everyone* is selected for the install.
- Click on the *Next* button.

📕 İ 🛃 🖶 🖬 v6.0.0.1		- 🗆 X 🛛
File Home Share View		~ 🔞
← → × ↑	s > CO3_Products > RSI_PrintService > v6.0.0.1 v 0	
<ul> <li>↓ Downloads</li> <li>↓ Log</li> <li>↓ Log</li> <li>↓ V25.0x</li> <li>← OneDrive - Personal</li> <li>➡ This PC</li> <li>③ 30 Objects</li> <li>➡ Desktop</li> <li>➡ Downloads</li> <li>♦ Music</li> <li>➡ Pictures</li> <li>➡ Videos</li> <li>➡ Network</li> </ul>	9 90 900	

- The installer will ask you to *Confirm Installation*.
- Click on *Next* to start the installation.



🔜 İ 🖓 📑 🖛 İ v6.0.0.1			- 🗆 ×	]
File Home Share View			~ 😮	
← → ~ ↑ 📙 > This PC > Local Disk (C:)	> CO3Projects > CO3_Proc	ducts → RSI_PrintService → v6.0.0.1 v ♂ Search v6.0.0.1		
Cuick access Cuick access Courtoads Cuoy Cuick access Condition Personal Cuick access Conditive - Personal Cuick access C	RSI PrintService. x64 Serup 16.0.0. Inni	BPO Print Service        Confirm Installation        The installer is ready to install BPO Pirt Service on your computer.     Clck: "Neet" to start the installation.		
1 item			8== <b>(m</b> )	11

- The *Print Service* installation will begin.
- *Wait* for it to be completed.

	×
	~ ?
Ref Hore Start     Ref Hore     Ref Hore     Start Vew     Condition Pownloads     Ing   Start     Start     Start     Start     Pownloads     Music     Pownloads   <	



- Once Installation is *Complete*.
- Click on *Close*.

III → Iv6.0.0.1			- 🗆 × ~ 🛛
← → × ↑ 📙 → This PC → Local Disk (C:)	) > CO3Projects > CO3_Pro	ducts > RSI_PrintService > v6.0.0.1 v 0 P Search v6.0.0.1	
<ul> <li>This PC &gt; Local Disk (C)</li> <li>Quick access</li> <li>Downloads</li> <li>Log</li> <li>SUP DOLOD PrimService_files</li> <li>OneDrive - Personal</li> <li>This PC</li> <li>30 Objects</li> <li>Decuments</li> <li>Documents</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Pictures</li> <li>Pictures</li> <li>Vedeos</li> <li>Local Disk (C)</li> <li>Network</li> </ul>	CO3Projects > CO3 Prof CO3Projects > CO3 Prof FSL PrintService, x64_Setup, v60.0. 1.mmi	ducts > KBJ.PrintService > v6.0.0.1	
1 item			

## CONFIGURATION

1. In your File Explorer, search for the following file location:

### C:\Program Files\CO3 Technologies (Pty) LTD\RSI Print Service

• Right click on the *Envn.xml* file.



🔋 📄 📒 🗴 🛛 BPO Print Service							- C	a x
File Home Share View								~ •
🗉 👘 📕 🔒 This PC 🔸 Local Disk	(C:) > Program Files > CO3 Technologies (Pty	/) LTD > BPO Print Service			v 0 0 %	arch BPO Print Service		
	Name	Date modified	Type	Size	1			
Quick access	dxPurchaseOrder.dll	2020/09/08 10:09	Application exten	195 KB				
Downloads	dxRequisition.dll	2020/09/08 10:09	Application exten	116 KB				
Log	dxReturnNote.dll	2020/09/08 10:09	Application exten	135 KB				
Log	dxReturnRequest.dll	2020/09/08 10:09	Application exten	109 KB				
SUP 204.201, PrintService, Files	dxRevaluationRequest.dll	2020/09/08 10:09	Application exten	104 KB				
In the second	dxSalesBackOrder.dll	2020/09/08 10:09	Application exten	106 KB				
CneDrive - Personal	dxSalesCrNote.dll	2020/09/08 10:09	Application exten	208 KB				
This PC	dxSalesInvoice.dll	2020/09/08 10:09	Application exten	248 KB				
	dxSalesOrder.dll	2020/09/08 10:09	Application exten	217 KB				
30 Objects	dxSalesProposal.dll	2020/09/08 10:09	Application exten	815 KB				
Desktop	dxSalesQuote.dll	2020/09/08 10:09	Application exten	187 KB				
Documents	dxServiceHistory.dll	2020/09/08 10:09	Application exten	159 KB				
Downloads	dxServiceReport.dll	2020/09/08 10:10	Application exten	93 KB				
Music	dxServiceReport_ByPer.dll	2020/09/08 10:10	Application exten	93 KB				
Pictures	dxStockAdjustment.dll	2020/09/08 10:10	Application exten	100 KB				
Videos	dxStockRevaluation.dll	2020/09/08 10:10	Application exten	105 KB				
Local Disk (C)	dxStockTakeSheet.dll	2020/09/08 10:10	Application exten	55 KB				
Local Dek (C)	dxStockVariance.dll	2020/09/08 10:10	Application exten	64 KB				
Network	dxSupplierDebitNote.dll	2020/09/08 10:10	Application exten	122 KB				
	dxSupplierInvoice.dll	2020/09/08 10:10	Application exten	117 KB				
	dxSupplierReturn.dll	2020/09/08 10:10	Application exten	135 KB				
	dx TransferNote.dll	2020/09/08 10:10	Application exten	110 KB				
	dxUnbilledItems.dll	2020/09/08 10:10	Application exten	100 KB				
	dxWarrantyClaim.dll	2020/09/08 10:10	Application exten	132 KB	1			
	dxWipTransaction.dll	2020/09/08 10:10	Application exten	96 KB				
	dxWorkOrder.dll	2020/09/08 10:10	Application exten	293 KB				
	Envn.xml	- C21/07/01 09:50	XML File	1 KB				
	HtmlAgilityPack.dll	2020/03/09 12:26	Application exten	132 KB				
	Ionic.Zip.dll	2010/02/26 05:30	Application exten	435 KB				
	NetEmail.dll	2018/02/19 15:12	Application exten	7 KB				
	NetEmail.tlb	2018/02/19 15:12	TLB File	3 KB				
	NetReports.dll	2020/09/08 10:10	Application exten	53 KB				
	PrintSDK.dll	2021/06/30 09:55	Application exten	46 KB				
	RSI_PrintService.exe	2021/07/01 15:38	Application	53 KB				
	RSI_PrintService.InstallState	2022/06/12 12:45	INSTALLSTATE File	8 KB				
2 items								

- The *File menu* will open.
- Select to either Open with *Notepad* or *Edit with Notepad++* (or any program that will allow editing and saving an xml file).

I Die BPO Print Service							- 1	
	k (C) > Program Files > CO3 Technologies (Pty) LT	D > BPO Print Service			~ ð	P Search BPD Print Service		
	Name	Date modified	Tope	Size				
Quick access	dePurchaseOrder.dll	2020-06-08 10-09	Application exten	195.43				
- Downloads	G defension dl	2020/06/08 10:09	Application exten	116.438				
Log	deflatureNote.dll	2020/06/08 10:09	Application exten	125.438				
Log	deflature/laguest.dll	2020/06/08 10:09	Application exten	109 KB				
SUP 204.001, PrintService, files	deflevaluationRequest.dll	2020/09/09 10:09	Application exten	104 KB				
-	🗟 deSalesBa 🛛 Open	10.09	Application exten	106.438				
OneDrive - Personal	G deSalesCr Edit	10.09	Application exten	208.68				
This PC	🗟 deSalesim 👩 Share with Skype	10.09	Application exten	248 KB				
3 ID Objects	🗟 dcSalesOr 🏢 Scan for threats	10.09	Application exten	217 88				
Desktop	🖻 deSalesPri 👛 Move to OneDrive	10.09	Application exten	815 KB				
	deSalerQi 7-Zip	> 10.09	Edit the xml fil	e with Notepad				
Documents	deServicel CRC SHA	> 10.09	or Note	epad++				
Downleads	Edit with Notepad++							
Music	is deService up share	<	Application exten	93.43				
all Pictures	Open with	> King	unit Edge	10				
Wideos Videos	🔄 dcStockfu 🌒 Wiebferge		oft Visual Studio 2019	10				
Local Disk (C)	deStockTe Restore previous versio		XML Handler	1 10				
	di Stock is	Moter						
🕐 Network	G deSupple Send to	Word						
	de Supplie Cut	-		ka				
	deSupple Copy	_	the Microsoft Store	10				
	de Transfei de Create shortcut		e another app					
	de Warran 🧐 Delete	10.10	Application exten	132 48				
	dellighter 🗣 Rename	10.10	Application exten	96.42				
			Application exten	201.43				
	Envn.xml	00.50	XML File	148				
		2020-03-09 12.26	Application exten	132.40				
	lonic Zp. dll	2010/02/26 05:30	Application exten	425.68				
	Net mail di	2018/02/19 15:12	Application exten	7.68				
	Netlmalith	2018/02/19 15:12	TLB File	148				
	R Netlepots.dl	2020-06-08 10-10	Application exten	52.428				
	Print/DK.dll	2021/06/30 09:55	Application exten	45.53				
	RS Printlervice.eve	2021/07/01 15:38	Application	52.428				
	RS, PrintService.InstalState	2022/06/12 12:45	INSTALLSTATE File	113				

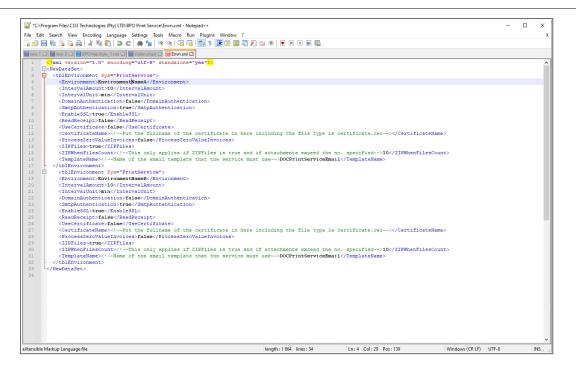
The xml file will open in the selected program.



Define the following tags:

- *Environment*: as defined for this database, in the Service Manager.
- IntervalAmount and IntervaUnit: The frequency with which the application will be run by Windows Services. In this example
   I have set the interval to 10 minutes.
- **DomainAuthentication**: True or False depending on whether required for your email server.
- **SmtpAuthentication**: True or False depending on whether required for your email server.
- EnableSSL: True or False depending on whether required for your email sever.
- **ReadReceipt**: True or False depending on whether you require the recipient to mark as read.
- UseCertificate: True or False depending on whether required for your email sever. If required, ensure the certificate name is noted in the <CertificateName> tag, and is in a folder named Certificates within the Print Service installation folder.
- **ProcessZeroValueInvoices**: True or False depending on whether you want Zero Value Invoices to be printed or emailed to your clients.
- **ZIPFiles**: True or False depending on whether you want the files to be zipped when the number of attachments exceed the number specified in the <ZIPWhenFilesCount> tag.
- **ZIPWhenFilesCount**: This count only needs to be specified when the <ZIPFiles> tag is True.





• Multiple environments are configured by setting up additional <Environment> tags within the main <dsEnvironments> tag.

## **CONFIGURE SCHEDULED TASK**

BPO Service Console Applications run automatically through Windows Services at the interval defined in the Environment file. This interval should be defined by the frequency invoice and credit notes are created throughout the day, and depends on your company's requirements, e.g., every 30 minutes.

## **RUN APPLICATION AND CHECK LOGS**

Running the application after installation and configuration is important, in order to ensure all configuration has been done correctly.

Refer to" **Start a service** " on page 1 for more information relating to starting a Windows Service.



After running the application check the application's log to ensure the application is running correctly.

- Browse to the application's installation folder.
- Log text files are generated by date within the **Log** folder.

Home Share View							~
🔲 🔹 🖷 📙 > This PC > Local Disk	(C:) > Program Files > CO3 Technologies (Pty) LTD :	BPO Print Service			~ 0	,P Search BPO Print Service	
	Name	Date modified	Type .	Size			
Quick access	Invoices	2022/05/31 10:30	File folder				
Downloads	Log	2022/05/31 13:08	File folder				
Log	Reports STD	2022/06/12 12:45	File folder				
RSI, PrintService	Temp	2022/05/31 16-05	File fulder				
SUP.004.001 PrintService, files	B BusinessLayer.dll	2021/06/30 09:55	Application exten	7.68			
	DataLayer.dll	2021/06/30 09:55	Application exten	143			
OneDrive - Personal	DevExpress.Charts.v18.2.Core.dll	2018/11/16 11-46	Application exten	736.43			
This PC	DevExpress.CodeParser.v18.2.dll	2018/11/16 11-45	Application exten	1.707.68			
3D Objects	DevExpress.Data v18.2.dll	2010/11/16 11-46	Application exten	6-624 KB			
Desktop	DevExpress.DataAccess.v18.2.dll	2018/11/16 11-46	Application exten	1 608 KB			
Documents	DevExpress.DataAccess.v18.2.07.dtl	2018/11/16 11-46	Application exten	906 KB			
	DevExpress.Diagram.v18.2.Core.dll	2018/11/16 11-46	Application exten	2 840 KB			
Downloads	DevExpress.Images.v18.2.dll	2010/11/16 11-46	Application exten	8 101 68			
Music	DevExpress.Office.v18.2.Core.dll	2010/11/16 11-46	Application exten	2.341.63			
<ul> <li>Pictures</li> </ul>	DevExpress.Pdf.x18.2.Core.dll	2010/11/16 11-46	Application exten	2 890 KB			
Wideos	DevExpress.PivotGrid.v18.2.Core.dll	2018/11/16 11-46	Application exten	3 046 KB			
Local Disk (C)	DevExpress.Printing.v18.2.Core.dll	2010/11/16 11-46	Application exten	4 107 83			
	DevExpress.RichEdit.v18.2.Core.dll	2010/11/16 11-46	Application exten	6.905.KB			
Network	DevExpress.Sparkline.v18.2.Core.dll	2010/11/16 11-46	Application exten	05 KB			
	DevExpress.Ubits.v18.2.dll	2010/11/16 11-46	Application exten	13 620 KB			
	DevExpress.UNIx.v18.2.UI.dll	2018/11/16 11-46	Application exten	251 KB			
	DevExpress.Xps.v18.2.dll	2010/11/16 11-46	Application exten	1.002 KB			
	DevExpress.3traBars.v18.2.dll	2018/11/16 11-46	Application exten	6.229.KB			
	DevExpress.3traCharts.v18.2.dll	2010/11/16 11:46	Application exten	4 525 KB			
	DevExpress.3baCharts.v18.2.Extensions.dll	2018/11/16 11:46	Application exten	25.438			
	DevExpress.3baCharts.v18.2.Wcard.dll	2018/11/16 11-46	Application exten	7 298 KB			
	DevExpress.XtraDiagram.v18.2.dll	2018/11/16 11:46	Application exten	1.231 KB			
	DevExpress.3traEditors.v18.2.dll	2018/11/16 11:46	Application exten	6.272.KB			
	DevExpress.XtraGauges.v18.2.Core.dll	2010/11/16 11:46	Application exten	1 913 KB			
	DevExpress.XtraGrid.v18.2.dll	2018/11/16 11-46	Application exten	3 252 KB			
	DevExpress.Xtral.ayout.v18.2.48	2010/11/16 11-46	Application exten	1 954 KB			
	DevExpress.3traNavBar v18.2.dll	2018/11/16 11-46	Application exten	421.83			
	DevExpress.XtraPivotGrid.v18.2.dll	2018/11/16 11-46	Application exten	219.42			
	DevExpress.XtraPrinting.v18.2.dll	2010/11/16 11-46	Application exten	1.101.68			

- Open the Log file generated for the corresponding date.
- Check that connection was successful, and that there are no errors in the log.
- Resolve any issues until the log file is clear of errors.



#### **Print Service**

→ * ↑	sk (C:) > Program Files > CO3 Technologies (Pty) LTD > BPO Print Service > Log 🗸 🖉
Quick access	Name Date modified Type Size
Quick access Downloads	RSL_Printing_Log_31052022.txt 2022/05/31 16:05 Text Document 122 KB
Log	RSL_Printing_Log_310520221.txt 2022/05/31 13:06 Text Document 19 KB
	🖹 RSL_Printing_Log_26052022.txt 🔪 2022/05/26 09:36 Text Document 95 KB
RSI_PrintService	RS     RSL Printing Log 12062022.txt - Notepad
SUP.004.001_PrintService_files	
OneDrive - Personal	File Edit Format View Help 15:12: RSI PrintService: Version: 6.0.0.1 Started.
71-00	15:12: RSI PrintService: Version: 0.0.01 started. 15:12: RSI PrintService: Checking for environment file :C:\Program Files\CO3 Technologies (Pty) LTD\BPO Print Service
This PC	\Envn.xml
3D Objects	15:12: RSI_PrintService: The timer settings are once every 1 min.
Desktop	16:05: RSI_PrintService: Database : BP02_ALPHA_25011
Documents	16:05: RSI_PrintService: Server : NBDB0011\BPO 31/05/2022 16:05: RSI PrintService: The timer settings are once every 1 min.
🕹 Downloads	31/05/2022 16:05: RSI PrintService: Loading Connection Properties.
Music	31/05/2022 16:05: RSI PrintService: Checking HTML template configuration for 'DOCPrintServiceEmail'.
Pictures	31/05/2022 16:05: RSI_PrintService: Connection Properties Loaded Successfully.
Videos	31/05/2022 16:05: RSI_PrintService: Version: 6.0.0.1 Checking For Records To Process: Found 1
	31/05/2022 16:05: RSI_PrintService: Checking For Records To Process: Found Invoice No: IN0000816, Print Queue ID: 960. 31/05/2022 16:05: RSI PrintService: Loading Service Config for site 1.
Local Disk (C:)	31/05/2022 16:05: RSI Printervice: Dualing service coming for site 1.
Network	31/05/2022 16:05: RSI PrintService: Ready to Print, InvoiceNo: IN0000816 Printer: Microsoft Print to PDF
	31/05/2022 16:05: RSI_PrintService: Invoice No : IN0000816, Print Method - Email, Attempting to Save Email
	31/05/2022 16:05: RSI_PrintService: Loading Service Config for site 1.
	31/05/2022 16:05: RSI_PrintService: Creating HTML email for Invoice: IN0000816 from 'DOCPrintServiceEmail' email flag. 31/05/2022 16:05: RSI PrintService: Invoice No : IN0000816, Print Method - Email, Email Saved Successfully.
	31/05/2022 16:05: RSI_PrintService: invoice No : invovodo, Print metnoù - Email, Email Saved Successfully. 31/05/2022 16:05: RSI PrintService: invoice No : invovodo Rossed Successfully.
	31/05/2022 16:05: RSI PrintService: Invoice No : IN0000816 Flagged as Processed Successfully.
	31/05/2022 16:05: RSI_PrintService: Finished processing print queue items.
	31/05/2022 16:05: RSI_PrintService: Checking For Print Queue Emails To Send: Found: 1
	31/05/2022 16:05: RSI_PrintService: Found Email to send EmailID: 10076 Related To ID: 871 Related To Type: CTIN
	31/05/2022 16:05: RSI_PrintService: Customer Code: TIA001 Contact Name: Jackie Sutherland Invoice No: IN0000816
	31/05/2022 16:05: RSI_PrintService: Loading Service Config for site 1. 31/05/2022 16:05: RSI PrintService: Retrieving Email Addressees.
	3/05/2022 16:05: RSI PrintService: Retrieving Email Attachments.
	31/05/2022 16:05: RSI_PrintService: No of Attachments: 1.
	31/05/2022 16:05: RSI_PrintService: Attempting to send email 10076.
	31/05/2022 16:05: RSI PrintService: Email 10076 marked as sent.
	31/05/2022 15:14: RSI PrintService: Database : BP02_ALPHA_25011

- It is recommended that you check the log files the following day to make sure the Scheduled Task fired that there are no errors in the log.
- This application can now be left to run via the Windows Scheduled Task.
- Review the log if any issues arise on BPO related to this functionality.

#### **Related Topics**

- Print Queue
- Print Queue Reprint
- Print Queue Viewer

SUP.004.001