

Sage XRT Business Exchange version 12.0

Technical Guidelines





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Foreword

Sage XRT Business Exchange version 12.0 Includes the following technical features:

- Compatibility with Microsoft SQL Server 2016
- Native 64-bit Compilation
- Unicode Characters management







For Unicode Management, please refer to appendices: Database Unicode Management and Windows Unicode Management.

Environments

Compatibility Chart

Environment	Prerequisite Type	Prerequisite
Sage Software	These prerequisites are designed for	Sage XRT Business Exchange 12.00. 1462 Sage Common Services 4.1.0 Bank Format Library 4.1.0 Sage View & Sign 2.0
	Build No.	12.00.000.1462
	Available Languages	French - English - Spanish
Client Station	Operating System	Windows 8.1 64 bits(FR/US) Windows 10 64 bits(FR/US)
	Minimum Sizing	Processor: 2Ghz Bi-pro/Dual Core RAM: 4 GB Disk Space: 2GB
	Other required products	Microsoft .NET Framework 4.5.2 minimum DBMS Client (see DB Connectivity)
	Optional products	JRE 8.0. 1410 (64 bits) Required if the station processes XML files (edition, conversion, generation)
	Validated Browser: Microsoft OS	Microsoft Windows 8 &10: <ul style="list-style-type: none">• Internet Explorer 11 / Edge• Chrome 62.x and later• Firefox 57 and later

Environment	Prerequisite Type	Prerequisite
	Validated Browser: MAC OS	MAC OS X High Sierra, Sierra & El Capitan <ul style="list-style-type: none"> • Safari • Chrome 62.x and later • Firefox 57 and later See Mac OS Appendix
Application and/or Publication Server	Operating System	Windows Server 2016 Windows Server 2012 R2 Windows 10 64 bits
	Other Required Components	Microsoft .NET Framework 4.5.2 minimum Internet Information Service: IIS 8.5, 10 <serverSideInclude> element must be installed (See IIS Appendices) Java Execution Environment: JRE 8.0. 1410 (64 bits)
	Minimum Sizing	Processor: 4 vCPU 2Ghz or equivalent RAM: 8 GB Disk Space: 3 GB (Programs)
Server and Database  For migrations from SXBE V11 to SXBE V12, the size of the database is at most doubled because of the Unicode Management.	Operating System	Windows Server 2016 Windows Server 2012 R2
	Minimum Sizing	Processor: 4 vCPU 2Ghz or equivalent RAM: 8 GB
	Compatible Microsoft Databases	SQL Server 2012 SQL Server 2014 SQL Server 2016
	64-bit Microsoft DB Connectivity	MS-SQL components: minimum SQL Server 2012/2014 <ul style="list-style-type: none"> ▪ Client Connectivity Tools ▪ Complete management tools MS-SQL components: minimum SQL Server 2016 <ul style="list-style-type: none"> ▪ Client Connectivity Tools ▪ SQL Server Management Studio  SQL SMO & CLR components must be installed if not present.

Environment	Prerequisite Type	Prerequisite
	Compatible Oracle Databases	 Oracle 12c: Warning: version 12.1.0.2 contains regressions impeding the proper operation of certain options in SXBE 12, particularly the Signature Station.  SQL SMO & CLR components must be installed if not present.
	64-bit Oracle Connectivity	Client Oracle (x64) 12.2.0.1.0 minimum Oracle Components to install: <ul style="list-style-type: none"> ▪ SQL*Plus ▪ Oracle Net ▪ Oracle Connection Manager ▪ Oracle ODBC drivers ▪ Oracle Provider for OLE DB
Virtualization and Publication Tool (see Appendices)	Remote Desktop Services	Windows Server 2012 R2 and 2016
	XenApp	V5 and later
	ESX	V5 and later
	Hyper-V	Windows Server 2012 R2 and 2016
Sage View & Sign (smartphones & tablets)	Operating Systems	<i>Apple: iOS 9.0 minimum</i> <i>Android: Android 4.4.2 minimum</i>
	Validated Terminals	Apple: <ul style="list-style-type: none"> ▪ iPad 2 ▪ iPad Air ▪ iPhone 5 ▪ iPhone 6 ▪ iPhone 7 Google: <ul style="list-style-type: none"> ▪ Samsung Galaxy S4, S5 and S6 ▪ Samsung Galaxy Tab Sony Xperia Z3 Compact

Flow Opening

Source to Target	Port No.	Editable	Flow Details
Rich Client to Database	1434 (Oracle)	Yes	The setup can be adapted so that only one port is open, with another value than the default one.
	1521 (SQL)		
Rich Client to Files Server (SXBE Files)	SMB	No	Data Exports/Imports, bank format files to edit, application logs May include the following ports: 137, 138, 139 and 445 May be used for remote files access
Rich Client to Files Server (SXBE Files)	DFS	No	Data Exports/imports, bank format files to edit, accounting files, remote sharing Ports for domain controller: 135, 137, 138, 139, 389 and 445 Ports for other server: 135, 137, 138, 139 and 445
Rich Client to Files Server (other Files)	SMB	No	Only if files are to be exchanged with remote sharing Data Exports/Imports, bank format files to edit, application logs
Rich Client to Active Directory	MS	No	User Authentication (using Base Class Libraries for namespace System.DirectoryServices of Framework .NET)
Rich Client to XDLO Server	5151	Yes	Sage proprietary protocol
	MS-DTC	Yes	Port range, dynamic or static (1024-65535), range of 20 minimum
	DCOM	No	Access to parameters for System Administration module
Rich Client to LDAP Server	389	Yes	Only for LDAP authentication Default ports, with editable absolute values
	636	Yes	
Rich Client to SXBE Servers (Registry)	139	No	Access to parameters for System Administration module
Rich Client to SXBE Servers (Windows Services)	135	No	Access to Windows Services (RPC)

Appendices

Virtualization



Virtualization may have negative impacts on the applications processing times.

Some functions linked to Bank Communication Management can only be executed on an application server.

Before any deployment, the architecture and the size of your configuration may be validated by Sage consultants.

EBICS TS tokens drivers must be available for bank files transfer by Electronic Signature.

Microsoft Windows Patches

Windows Server

Recap of the patches to be installed for the smooth operation of the application.

KB	Installation	Download link
KB2655192	Yes	https://support.microsoft.com/fr-fr/kb/2655192 <i>Installation manuelle uniquement</i>
KB2919355	Yes	https://support.microsoft.com/fr-fr/kb/2919355
KB2919442	Yes	https://support.microsoft.com/fr-fr/kb/2919442
KB2999226	Yes	https://support.microsoft.com/fr-fr/kb/2999226
KB3072630	No	https://support.microsoft.com/fr-fr/kb/3072630
KB3102429	No	https://support.microsoft.com/fr-fr/kb/3102429

Remote Desktop Services (KB2655192)

On RDS environments (W2012 R2, and later) for which the **Remote Desktop Service** (RDS) role is selected, the **Sage XRT Common Services** installation keeps the MSI Installer Coordinator looping and fails. To solve this problem, it is recommended to enable the deactivation parameter of the RDS Compatibility for Windows Installer:

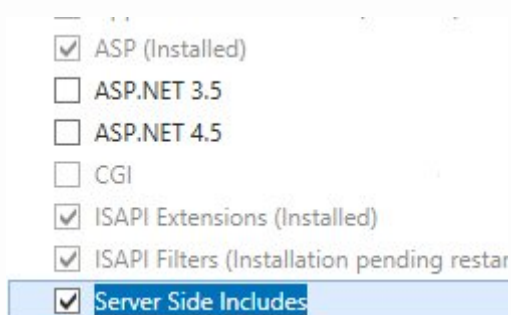
Computer Configuration\Administrative Templates\Windows Components\Remote Desktop Services\Remote Desktop Session Host\Application Compatibility\Turn off Windows Installer RDS Compatibility.

IIS

<serverSideInclude> element is not installed by default with versions IIS 8.5 and later. To install this component, proceed as follows:

WINDOWS SERVER 2012 OR WINDOWS SERVER 2016

1. On the taskbar, click **Server Manager**.
2. In **Server Manager**, click the **Manage** menu, and then click **Add Roles and Features**.
3. In the **Add Roles and Features** wizard, click **Next**. Select the installation type and click **Next**. Select the destination server and click **Next**.
4. On the **Server Roles** page, expand **Web Server (IIS)**, expand **Web Server**, expand **Application Development**, and then select **Server Side Includes**. Click **Next**.



MAC OS



For more information on the signature component installation under Mac OS, refer to this document:

Sage Eb_eIDSign_TechnicalScope_MACOSX

Database Unicode Management

SXBE version 12.0 was tested and validated with UTF8 code page under Oracle, Latin1_CI_AS, Modern_Spanish_CI_AS, French CI_AS under SQL Server.



Any modification of character sets must be performed by an Oracle DBA or a Sage consultant, this modification has an impact on all the database schemas.



For migrations from SXBE V11 to SXBE V12, the size of the database is at most doubled because of the Unicode Management.

Windows Unicode Management

The application processing using UNICODE characters (Chinese, etc.) require ARIAL UNICODE MS.

But this font is not part of the default ones for every Windows versions and its use depends on the license.

To perform these editions, the font must be installed. This can be done through the installation of Microsoft Office 2010 or 2013 (32 or 64 bits) or through the specific download of the font.



Warning: Office 2016 and Windows 10 do not natively include this font.