

# New Feature Highlights Sage X3 2022 R4 & 2023 R1

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Sage



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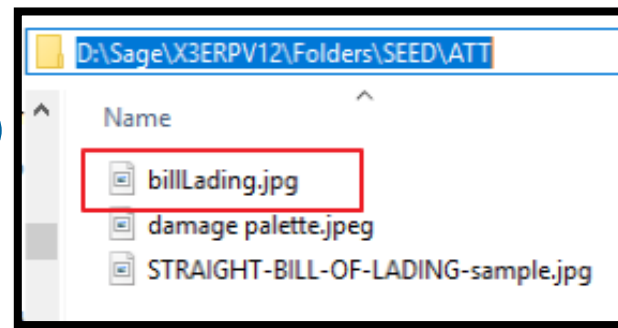
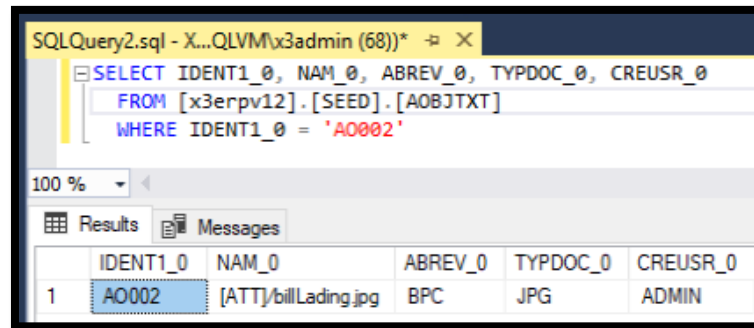
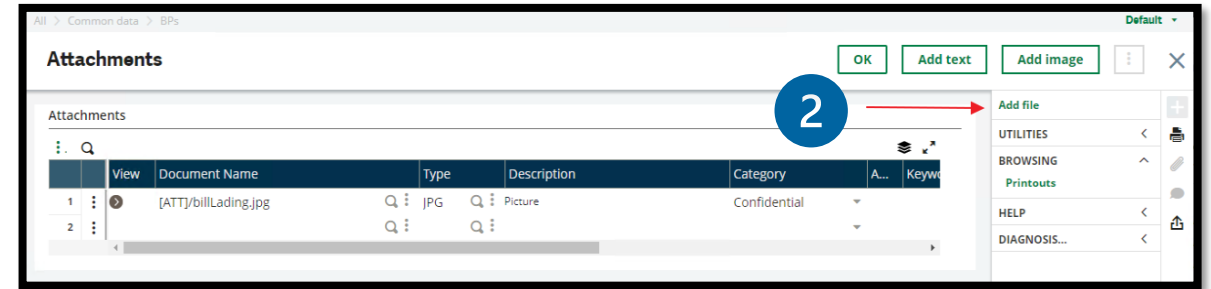
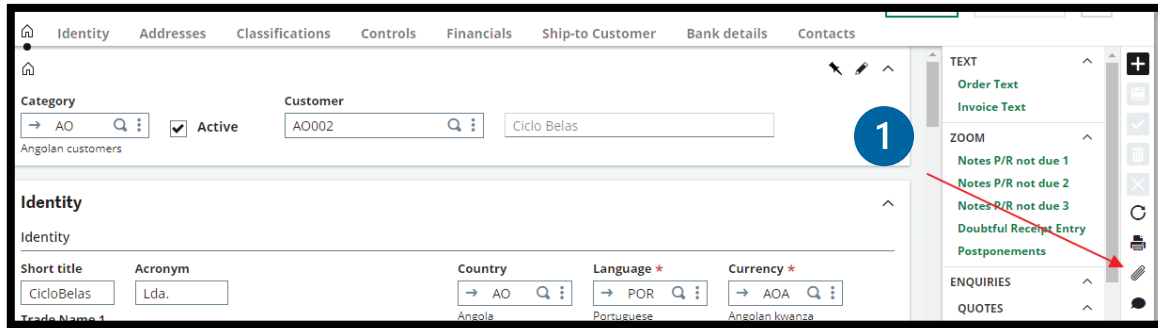
## New Feature Highlights 2023 R1

- **Syracuse (12.18)**
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# 2022 R4 Attachments

# Attachment in Sage X3

In Sage X3, you have always had the ability to attach files of different types to object-based functions, like Sales orders (GESSOH), Customers (GESBPC), using the attachments button in the right menu. Using the add file button, you will be presented with a list of volumes defined in Sage X3. You can then upload your attachment to a volume of your choice using the action button, for example, ATT and link to your object. The link is saved in the AOBJTXT table.



# Enabling Security

From 2022 R4, we have a new parameter which enables the more secure attachments

The image shows two overlapping screenshots of the Sage X3 software interface. The left screenshot shows the 'Parameter values' window with a tree view on the left and a list of parameters on the right. The 'SUP Supervisor' folder is expanded, and the 'SEED' parameter is highlighted. The right screenshot shows the 'Parameter values' window with the 'ATC Attachment' group selected. The 'ATTSECUR' parameter is highlighted, and its value is set to 'Yes'.

Chapter *	Legislation	Company	Site
SUP			

Supervisor

Gr...	Description
1 : APL	Portal
2 : ATC	Attachment
3 : AUZ	Authorizations
4 : DEF	Default values
5 : DEV	Development
6 : FDR	Folder management
7 : FMT	Formats
8 : INT	User interface
9 : MIS	Miscellaneous
10 : PRF	Performances
11 : RPT	Print-outs
12 : SEC	Security

Chapter	Legislation	Company	Site
SUP			

Supervisor

Group

ATC Attachment

Parameter	Description	Value	Set of values	Level
1 : ATTSECUR	Attachment protection	Yes		Folder
2 :				

# Simpler File Uploads

## Changes to the attachments window

- **Upload file:** This uploads an attachment directly from the user's local device and lists it immediately in the attachments table with no additional user entry required. The user can either select a file through the browser's selection window, or drag a file onto the upload section of the screen
- **When uploaded,** the file appears in the attachments list with its filename (Document name), Type (from the extension if present), and a default Category set to Confidential (This can be changed by the user and is informative only).
- **Select file:** This opens an additional window where the user can select a file from an existing volume on the server (or to upload a file from the local device onto a volume on the server), as with previous Sage X3 releases.

The screenshot shows the 'Attachments' window in a web application. The window title is 'Attachments' and it has a breadcrumb path 'All > Common data > Products'. The window contains a table with the following columns: 'View', 'Document name', 'Type', and 'Category'. The first row shows a document named 'damage palette.jpeg' with a type of 'DOC' and a category of 'Confidential'. The second row is partially visible. The window also has buttons for 'OK', 'Upload file', and 'Select file'. A 'File upload' dialog box is overlaid on the right side of the window. The dialog box has a title 'File upload' and buttons for 'OK' and 'Cancel'. The dialog box contains a dashed box with the text 'Drop file from explorer or Select it' and a 'Select file' button with a plus sign and a 'Remove' button with an 'x'.

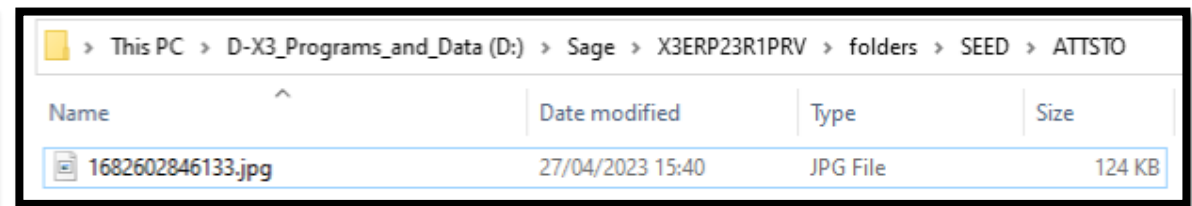
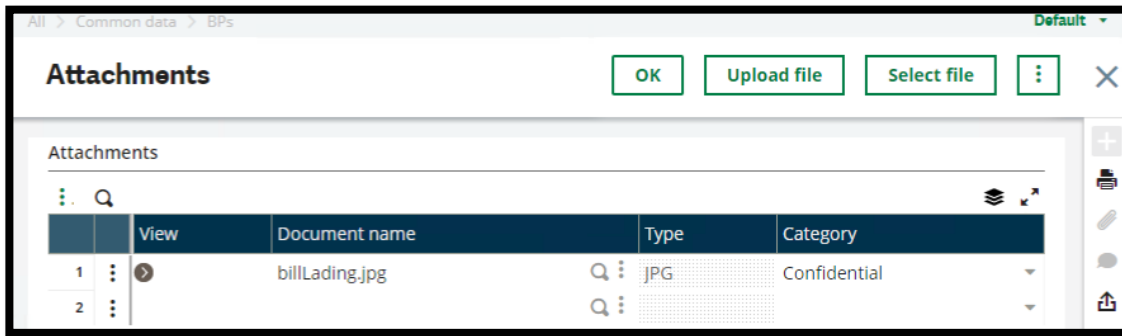
View	Document name	Type	Category
1	damage palette.jpeg	DOC	Confidential
2			



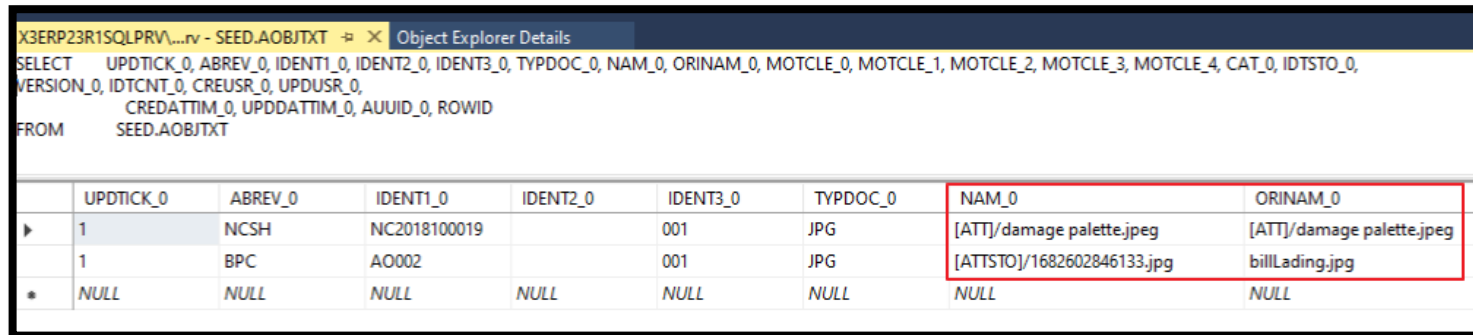
# Attachment Security

One of the main concerns with attachments is that because they are saved in the storage area, the contents of the folders can be accessed through the Usage > Usage > X3 storage area's function (AVOLUME). No specific access rights can be applied, and users will have access even if there is no access to the Object the attachment was linked to.

**From Sage X3 2022 R4**, The attachments linked to the objects are now saved into a new folder ATTSTO Folder with an automatically generated numeric file name.



AOBJTXT table holds the link to the document and now the original file name (ORINAM\_0)



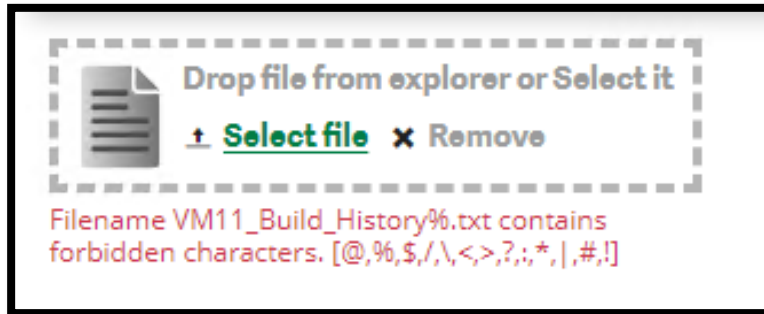
- Existing attachments still in ATT Folder
- New attachments now use the ATTSTO Folder

# Filenames

When uploading files, the system performs controls to remove unwanted characters and displays clear error messages when the file's name cannot be used.

The following characters are not allowed in attachment file names:

- You cannot use @, %, and \$ in Sage X3 file names. These are Sage X3-reserved characters.
- You cannot use /, \, <, >, ?, :, \*, ", and | in operating system file names. For example, Windows file names.
- You cannot use \*, !, #, and ? in any file name because those are used in regular expressions.





# 2022R4 New HTML Text Editor

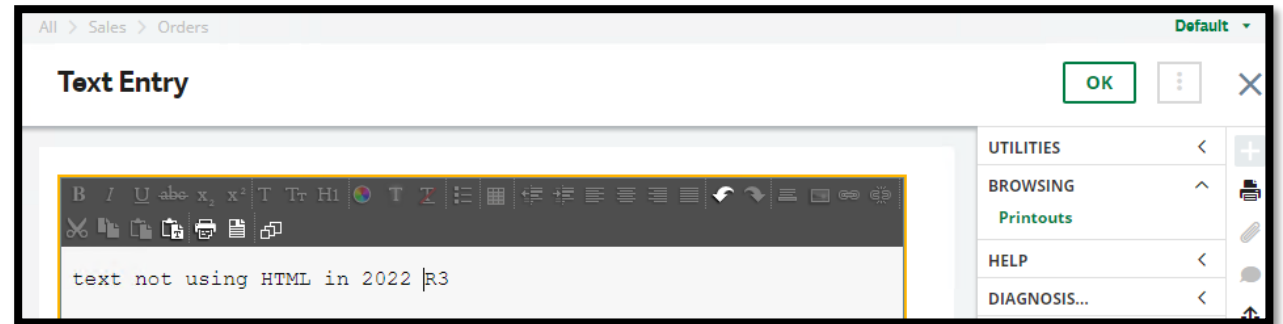
# Text Storage

Prior to 2022 R4 Text is stored in either RTF or plain text format in the TEXCLOB table.

```
SELECT      CODE_0, TEXTE_0
FROM        SEED.TEXCLOB
WHERE       (CODE_0 LIKE 'SOH~00000031')
```

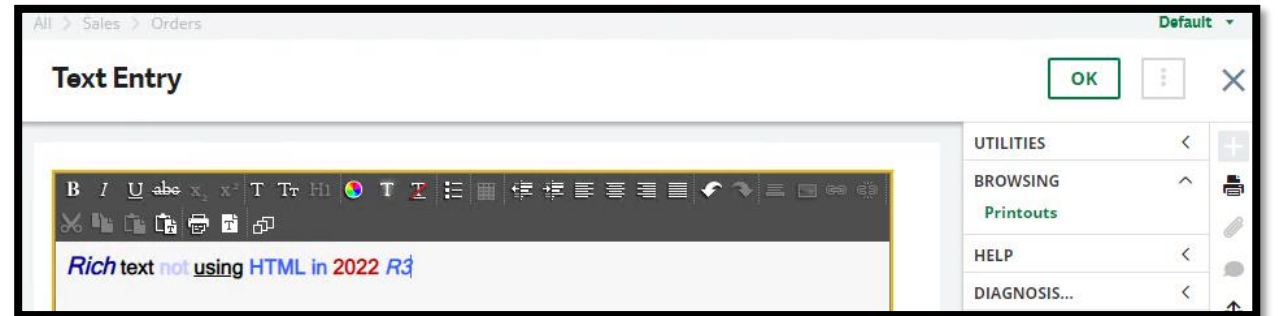
## Plain Text

CODE_0	CREUSR_0	CRETIM_0	UPDUSR_0	TEXTE_0
SOH~00000031	ADMIN	62614	ADMIN	text not using HTML in 2022 R3



## Rich text format (RTF)

```
{\rtf1\ansi{\fonttbl{\f0 MS Sns
Serif;}}{\colortbl;\red0\green0\blue153;\red204\green204\blue255;\red51\green1
02\blue255;\red204\green0\blue0;}{\uc0\pard\fs24\pard\ql\pard\ql{\cf1\i\b\fs28
Rich\b0\i0}{\fs24\cf0\b text\b0\cf0}{\fs24\b{\cf2 not}{\cf0\ul
using\ul0\strike0}\b0}\fs24\b{\cf3 HTML in }{\cf4 2022}\cf3\i
R3\i0\cf0\b0\fs24\par}
```



# Prior to 2022 R4

Prior to 2022 R4, Sage X3 used RTF format to embed text in the application for documents like Sales orders, Invoices and other mainly customer-facing documents.

## What is RTF Format

- It was developed by Microsoft in the late 1980s with the purpose of creating documents that could be shared across different platforms and operating systems without losing formatting or other styling information.
- Rich Text Format (RTF) is a file format that is used to exchange text documents between different word-processing software applications.
- RTF files can contain text, images, tables, and other objects and can be opened and edited using a variety of software applications, including Microsoft Word, LibreOffice Writer, and Google Docs.
- Unlike plain text files, which contain only the ASCII text characters, RTF files contain formatting codes that describe how the text should be displayed, such as font style, size, colour, and alignment.

# 2022 R4 HTML introduced

From 2022 R4, a new feature has been implemented to allow the use of the HTML format to save rich texts in Sage X3. This can be enabled from global settings. The advantages include

- Resolve issues that appear when text is translated back and forth from RTF to HTML to be displayed on screen
- You can now move to an open standard HTML format
- Resolve formatting issues with rich texts when printing through Crystal reports
- Sage X3 Environment can progressively move to start using HTML Format
  - Existing text continues to use RTF
  - New & modified texts use HTML

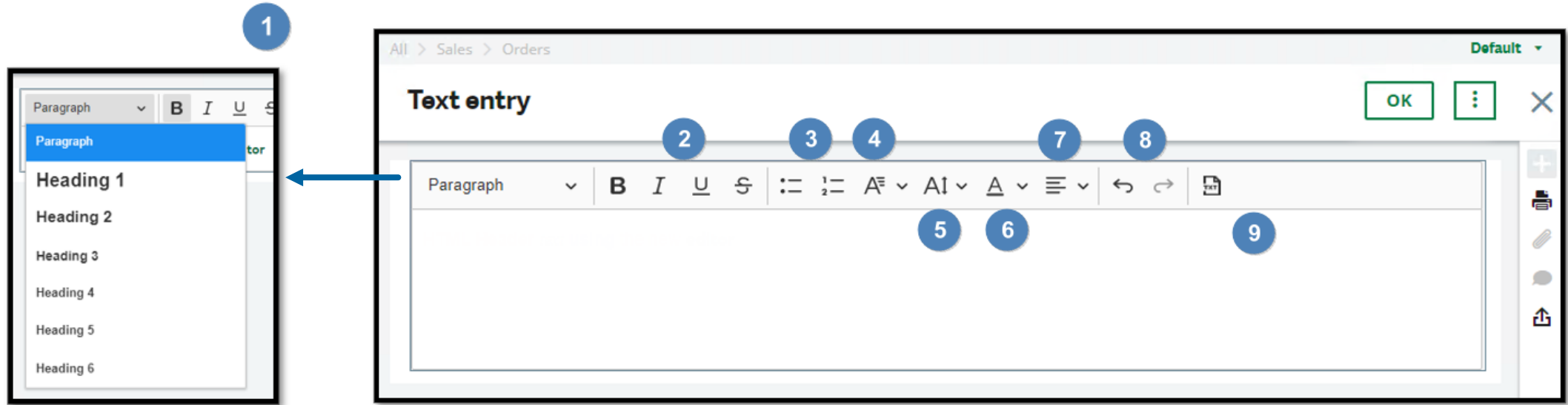
# Switching to use HTML

From Sage X3 2022 R4, you can activate the flag Use HTML for rich texts in **Administration > Global Settings**. This enables the new HTML editor in Sage X3. You must log out of the application once the flag is enabled.

The screenshot shows the Sage X3 Administration Settings page. The breadcrumb trail is 'All > Administration > Administration > Settings'. The 'Settings' page has tabs for 'General settings', 'Authentication', 'Proxy', 'Mailer', 'CTI Service', 'Logs', 'Patch', 'Synchronization', 'History', and 'Global variables'. The 'General settings' tab is active. The 'General settings' section includes: 'Lower bound of two-digit year expansion interval' (1930), 'Upper bound of two-digit year expansion interval' (2029), 'Global default locale' (English (United Kingdom)), 'Display animations' (checked), and 'Use HTML for rich text' (checked). A yellow callout box highlights the 'Use HTML for rich text' option with the text: 'This enables the HTML rich text editor for all rich ...'. A larger callout box on the right provides a detailed description: 'Use HTML for rich text. This enables the HTML rich text editor for all rich ... This enables the HTML rich text editor for all rich texts in the application. Any rich text that is created or modified will be saved as HTML. Make sure you review Crystal Reports files prior to enabling this.'

Sage X3 Environment can progressively move to start using HTML Format. Existing text continues to use RTF New & modified texts start using HTML

# The New Editor



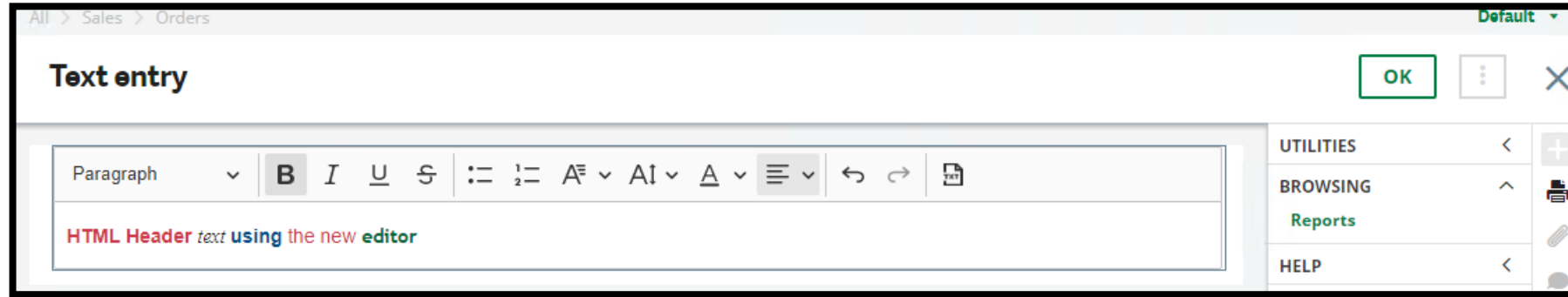
1. Paragraph heading options
2. Font formatting (bold, italic, underline & strikethrough)
3. Bullet & numbering options
4. Font Styles
5. Font Size

6. Font colour
7. Text alignment
9. Option to switch to plain text (removes all formatting)

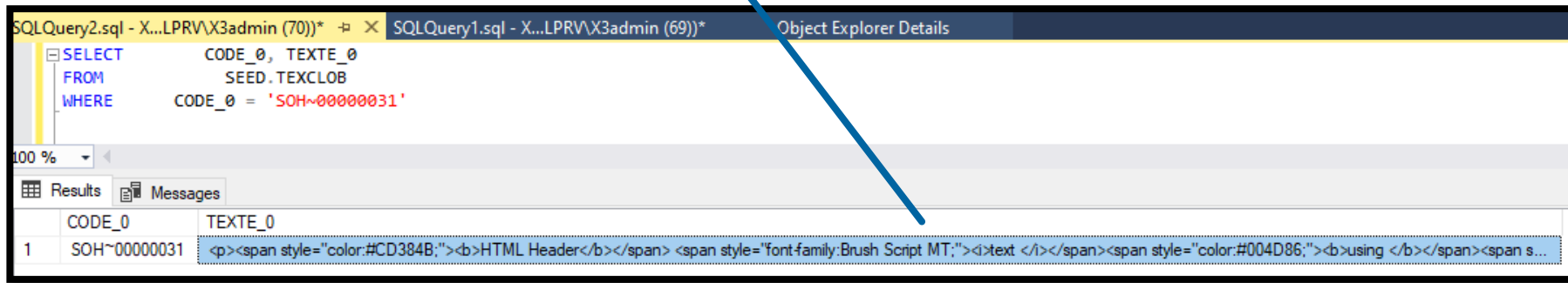


# The New Editor

This is an example of how HTML is now stored in the TEXTE field in this case.



```
<p><span style="color:#CD384B;"><b>HTML Header</b></span> <span style="font-family:Brush Script MT;"><i>text </i></span><span style="color:#004D86;"><b>using </b></span><span style="color:#CD384B;"><b>the new</span> <span style="color:#006738;font-family:Trebuchet MS;"><b>editor&nbsp;</b></span></p>
```



# Crystal Reports

The screenshot displays the Crystal Reports design environment. On the left, the Design view shows a report layout with multiple group headers (e.g., Group Header #2h, #2i, #2j, #2k, #2m, #2n, #2o, #2p) and various fields. A red box highlights the 'Group Header #2k' containing the field 'TEXTE\_0'. A red arrow points from this field to the 'Format Editor' dialog box in the center. The 'Format Editor' dialog has tabs for Common, Border, Font, Paragraph, and Hyperlink. The 'Text Interpretation' section is highlighted with a red box, showing a dropdown menu set to 'none' and a red 'x2' icon. On the right, the 'Report Explorer' shows the report's structure, with 'Group Header #2k: ORDER.POHNUM\_0 - A' and its sub-field 'TEXTE01: TEXCLOB\_ENT.TEXTE\_0' highlighted with a red box. Below the Report Explorer, the 'Formula Workshop - Format Formula Editor - Text Interpretation' window is open, showing a formula: `If Left({TEXCLOB_ENT.TEXTE_0},5) = "{\rtf" Then crRTFText Else crHTMLText`. The formula is highlighted with a red box. A red arrow points from the 'x2' icon in the Format Editor to this formula.

# Crystal Reports

When using HTML, there are some changes that you will have to make to your Crystal Reports so that the HTML can be rendered correctly. Changes have already been made in the standard reports shipped with Sage X3.

- Modify any custom reports that use rich text fields, for example, the TEXTE\_0 field in a Sales order
- Set the field interpretation value from RTF text to none
- In the formula enter `If Left({TEXTCLOB_DEB.TEXTE_0},5) = "{\rtf" Then crRTFText Else crHTMLText`

The formula instructs Crystal Reports to interpret the text as RTF if formatted as such and HTML otherwise. If the text is raw (no formatting), the Crystal Reports HTML engine will display it as such

# 2023R1 Syracuse (12.18)

# NodeJS Version 18

Syracuse Server (12.18) delivered with Sage X3 2023 R1 now runs Node.js framework 18.

## What is NodeJS Framework

Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that allows developers to write server-side code using JavaScript.

- Node.js allows developers to use JavaScript not just for client-side scripting in web browsers but also for creating server-side applications and services that run on the server
- Node.js provides a rich set of built-in modules and libraries, making it easier for developers to build scalable and high-performance applications

## What it means for Sage X3 - This will affect Sage X3 deployments.

- Node.js 18 does not support a specific tool called node-fibres. If you're a developer who has created JavaScript bundles to work with Syracuse, you need to check if your code uses node fibres. If it does, you may need to find alternatives to node-fibres to make your code work with Node.js 18.
- Linux 7 is no longer supported (announced in February 2023)
- Controls have been put in place so Syracuse will only deploy on Enterprise Linux 8 platforms (Redhat 8 or Enterprise Linux 8) if prerequisites are not met, the installation will not continue

# Syracuse Password

Starting from Syracuse 12.18, a new password policy is automatically applied to all new installation of Syracuse which means that you can no longer use the simple password.

## First login

- After the Successful Syracuse installation on the first login, you are prompted for the admin login credentials, which remain admin & admin.
- On the next screen, you define your new password for the admin user
- The password needs to fulfil the new default 'SAGE' password policy

Sage X3

Login

admin|

Password

.....

Remember me on this device

Sign in



Sage X3

New password for user 'admin'

The administrator has requested you to set a new password

New password:

Retype new password:

Set new password



Sage X3

New password for user 'admin'

The administrator has requested you to set a new password

Minimum length 10

At least one uppercase letter is required

At least one number is required

At least one non-alphanumeric character is required



# Password Policy Definition

The new default password policy (SAGE) is defined in **Administration < Administration < Settings < Password Policies function**. The policy will exist on updates & migrations but will not be enabled.

- Set minimum & maximum password length.
- Assign mandatory complexity rules to all passwords. A minimum of 3 rules have to be selected.
- You can import a text file with a list of forbidden/weak passwords.
- Define the number of days before the password expires. It is also possible to disable the expiration period for a user.
- Set an expiration for the password. This will override the user setting
- Indicate how many days before the password expires the user is notified to change.

The screenshot shows the configuration page for the 'Password policy sage' in a web application. The breadcrumb trail is 'All > Administration > Administration > Settings'. The page title is 'Password policy sage'. There are five tabs: 'Information', 'Lengths range', 'Complexity (at least 3 rules have to be checked)', 'Black-listed passwords', and 'Expiration'. The 'Information' tab is active. The configuration is divided into sections: 'Information' (Code: SAGE, Factory Owner: SAGE), 'Lengths range' (Minimum password length: 6, Maximum password length: 128), 'Complexity (at least 3 rules have to be checked)' (Requires at least one uppercase letter, Requires at least one lowercase letter, Requires at least one number, Requires at least one non-alphanumeric character), 'Black-listed passwords' (Blacklist file, History of previous passwords: 3, Text file with one password by line), and 'Expiration' (Expiration period (in days): 5, Alert user before password expiration (in days): 4). Blue callout boxes with numbers 1 through 4 point to the 'Lengths range', 'Complexity', 'Black-listed passwords', and 'Expiration' sections respectively.

# Applying the Password Policy

The password policy is applied to Syracuse users in **Administration > Administration > Settings > Global settings**, by default the 'SAGE' policy is applied to all new installations of Syracuse. There is the ability to create your own password policy.

The screenshot shows the 'Settings' page in the Syracuse Administration interface. The breadcrumb trail is 'All > Administration > Administration > Settings'. The 'Settings' page has several tabs: 'General settings', 'Authentication', 'Proxy', 'Mailer', 'CTI Service', 'Logs', 'Patch', 'Synchronization', 'History', and 'Global variables'. The 'General settings' tab is active. Under 'General settings', there are two input fields for 'Lower bound of two-digit year expansion interval' (1930) and 'Upper bound of two-digit year expansion interval \*' (2029). Below these are 'Global default locale' (English (United Kingdom)), 'Display animations' (checked), and 'Use HTML for rich text' (checked). The 'Authentication' section is expanded, showing 'Authentication \*' with radio buttons for 'Basic' (selected) and 'LDAP'. Under 'Basic', there is a 'Password policy' dropdown menu with 'SAGE' selected. A red box highlights the 'Password policy' dropdown and its value 'SAGE'.

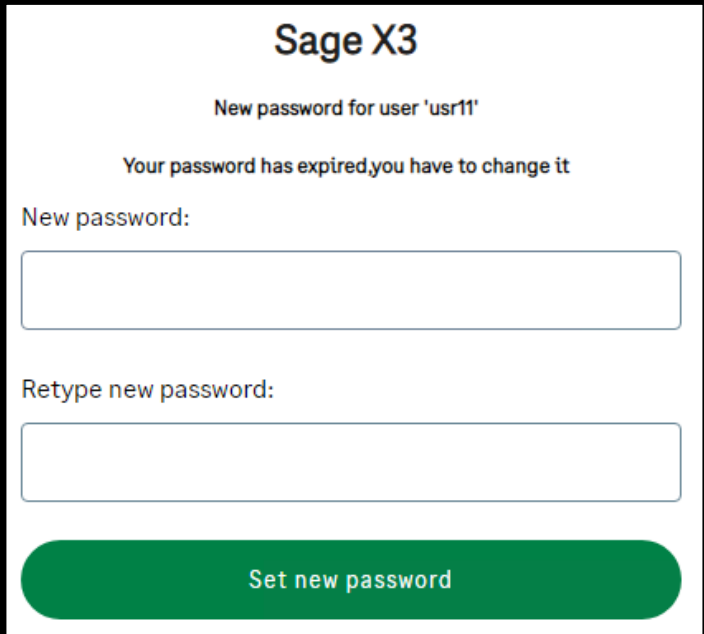
# User Passwords

## New installation

- Password policy is automatically enabled
- All Syracuse user passwords need to fulfil the policy requirements

## Existing installations (when you enable the password policy)

- New users will need to fulfil the password policy requirements
- Any changes to the password in the Syracuse 'USERS' function will enforce the policy
- Existing user passwords will expire & a new password that fulfils the policy requirement needs to be set on login.
- If the password is set to 'not to expire' for a user. The password will not expire



The screenshot shows a web interface for changing a password. At the top, it says "Sage X3". Below that, it says "New password for user 'usr11'". A message states "Your password has expired, you have to change it". There are two input fields: "New password:" and "Retype new password:". At the bottom, there is a green button labeled "Set new password".

# 2023 R1 Notification server

# Notification server

The Sage X3 notification server function, which is used to connect to different predefined email service providers and SMTP Servers, has been updated to support connections to Microsoft Exchange Online.

The screenshot shows the configuration page for a Notification server. The breadcrumb trail is 'All > Administration > Administration > Servers'. The page title is 'Notification server'. There are several tabs: 'Information', 'SMTP Server', 'SMTP Connection Security', 'SMTP Authentication', 'SMTP Pooled connections', 'SMTP Connection Timeouts', and 'Message configuration'. The 'Information' tab is active. It contains a form with the following fields:

- Name \***: Local\_hMailServer
- Description**: Local hMail Server
- Type**: A dropdown menu with 'SMTP' selected. The dropdown is open, showing the following options: SMTP (highlighted in green), AWS simple email service, SendGrid service, Mailgun service, and Office 365 - Microsoft Graph (highlighted with a red box).

Below the 'Information' section is the 'SMTP Server' section, which contains the following fields:

- Mail server \***: localhost
- Port**: 25
- Proxy**: (empty)

Exchange online requirements change, and basic authentication to Microsoft Exchange is no longer supported. Microsoft now recommends using the Microsoft Graph API to connect to your Exchange Online account using the Azure active directory.

[Deprecation of Basic Authentication in Exchange Online | Microsoft Learn](#)

[Graph Explorer | Try Microsoft Graph APIs - Microsoft Graph](#)

# Microsoft Graph

All > Administration > Administration > Servers

## Notification server

Information Office 365 - Microsoft Graph Message configuration

### Information

Name \* Description Type

LocalServer Local notification server Office 365 - Microsoft Graph

### Office 365 - Microsoft Graph

Client ID \* Tenant ID Secret access key \*

Password Password Password

Confirm password Confirm password Confirm password

### Message configuration

Sender email Default theme

admin@emv12.local sage-theme

Theme sage-theme

**Tenant ID** – The Azure Tenant ID is a unique identifier. It is assigned to an Azure AD tenant when it is created and remains the same throughout the tenant's lifecycle. The Tenant ID is used to differentiate and identify tenants within the Azure ecosystem.

**Client ID** – A unique identifier assigned to an application or service principal in Azure Active Directory (Azure AD). The Client ID is used to uniquely identify the application or service principal within the Azure AD tenant.

**Secret Key** – Credential used for authenticating and authorizing access to various Azure services and resources

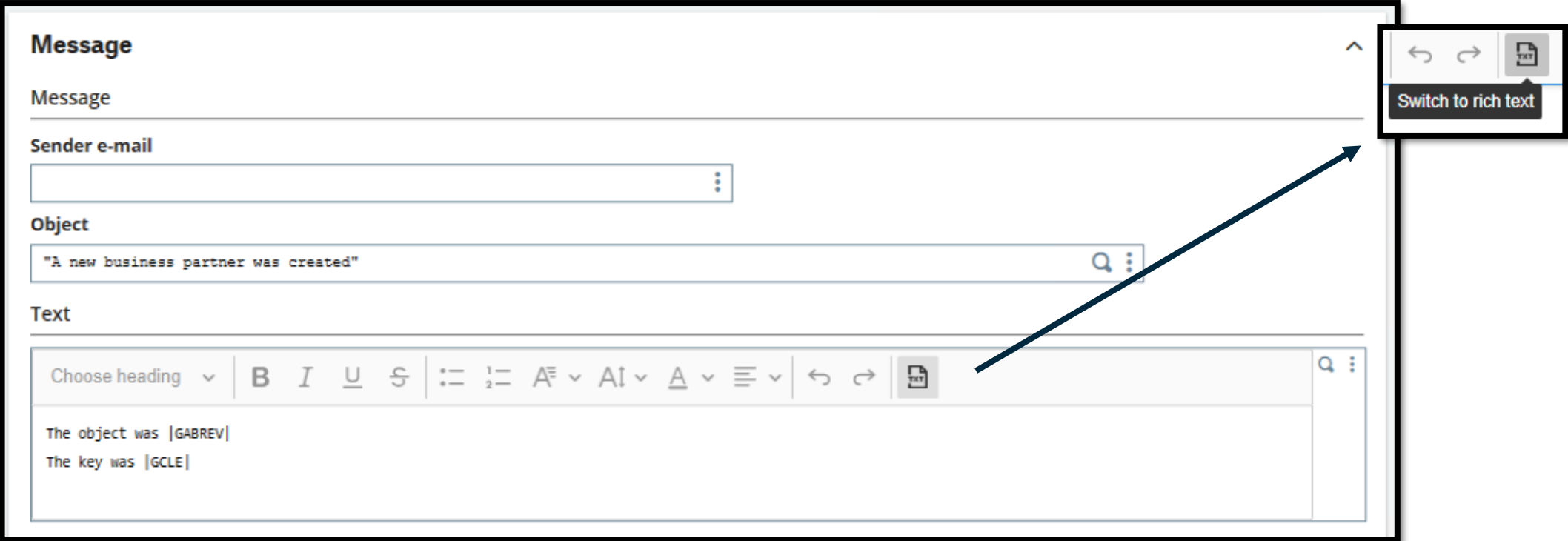


# 2023 R1 HTML Emails with Workflow

# HTML Emails with Workflow

2023 R1 Introduces the ability to send HTML emails instead of plain text from workflow rules when using the notification server to send emails.

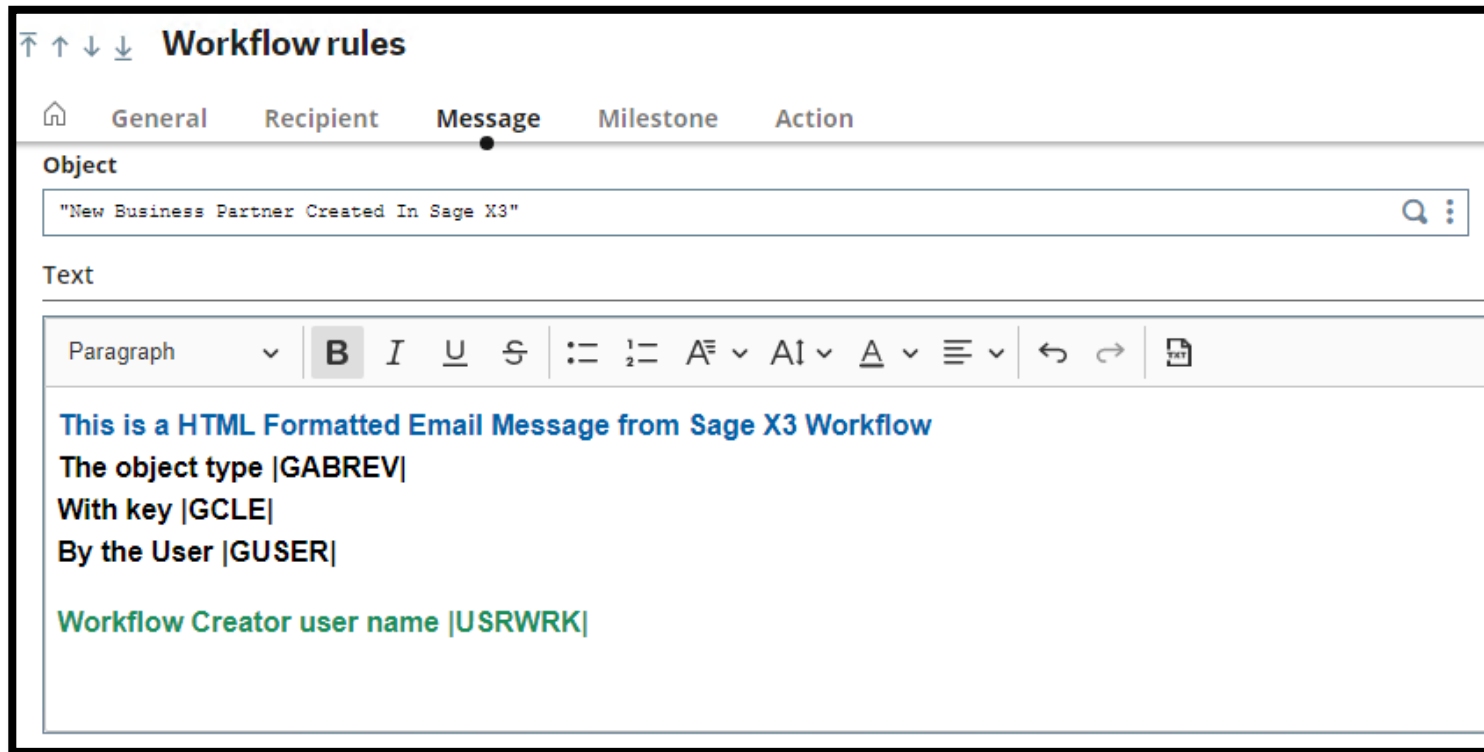
A new HTML editor for workflow rules is available in the GESAWA Functions (Workflow rules)



# HTML Emails with Workflow

2023 R1 Introduces the ability to send HTML emails instead of plain text from workflow rules.

New HTML editor for workflow rules



The screenshot shows the 'Workflow rules' configuration interface. The 'Message' tab is selected, and the 'Text' section contains an HTML editor. The editor's toolbar includes options for Paragraph, Bold (B), Italic (I), Underline (U), Strikethrough (ABC), Bulleted List (•), Numbered List (1), Text Color (A), Background Color (A), Indent (≡), Undo (↶), Redo (↷), and Attach (📎). The text area contains the following HTML-formatted content:

**This is a HTML Formatted Email Message from Sage X3 Workflow**  
The object type |GABREV|  
With key |GCLE|  
By the User |GUSER|  
  
Workflow Creator user name |USRWRK|

- When applying HTML formatting, any formatting change that covers an expression (formula) in the text needs to apply to the entire expression (formula), including the pipe separators.
- This requires using the Notification server and does not work with the legacy email client meladx.

# Sender Address

The sender email has been added to the workflow rule definition because, with the notification server functionality, the entry points used historically to change the sender are no longer available.

**Message**

Message

**Sender e-mail**

"DoNotReply@sagex3.local" ⋮

**Object**

"New Business Partner Created In Sage X3" 🔍 ⋮

**Text**

Paragraph ▾ **B** *I* U ~~S~~ | :: := A<sup>∞</sup> ▾ AI ▾ A ▾ ≡ ▾ | ↶ ↷ 📎

**This is a HTML Formatted Email Message from Sage X3 Workflow**

**The object type |GABREV|**

**With key |GCLE|**

**By the User |GUSER|**

**Workflow Creator user name |USRWRK|**

**i** **Field SENDMAIL / Screen AWA3 [AWA3]**

SENDMAIL : Sender e-mail

Data Type : AFR Adonix formula

Internal Type : Alphanumeric

Length : 80


Option : Tokenized

The sender email value can be a function or constant & will override the notification server sender email.

# HTML Email Example

HTML Email Examples with & without the Sage theme applied

New Business Partner Created In Sage X3

 DoNotReply@sagex3.local  
To admin@sagex3.local

[Reply](#)


**This is a HTML Formatted Email Message from Sage X3 Workflow**

**The object type BPR**

**With key ZZ008**


**By the User USR01**

**Workflow Creator user name USR01**

 DoNotReply@sagex3.local  
To admin@sagex3.local

[Reply](#) [Reply All](#) [Forward](#) [More](#)

Mon 15/05/2023 18:51



**New Business Partner Created In Sage X3**

---

**This is a HTML Formatted Email Message from Sage X3 Workflow**

**The object type BPR**

**With key ZZ017**

**By the User USR01**

**Workflow Creator user name USR01**

**Date**  
Mon May 15 2023

**Time**  
18:51:26

Management

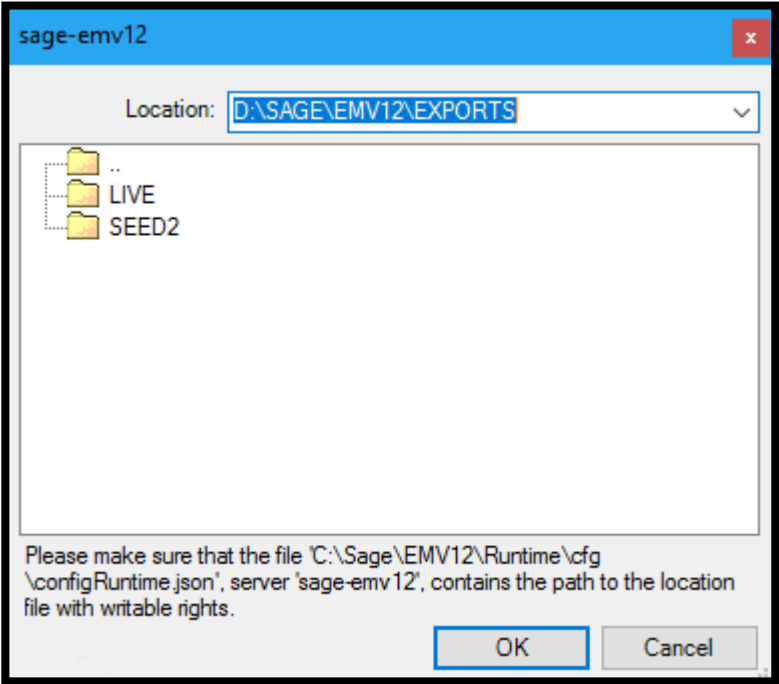
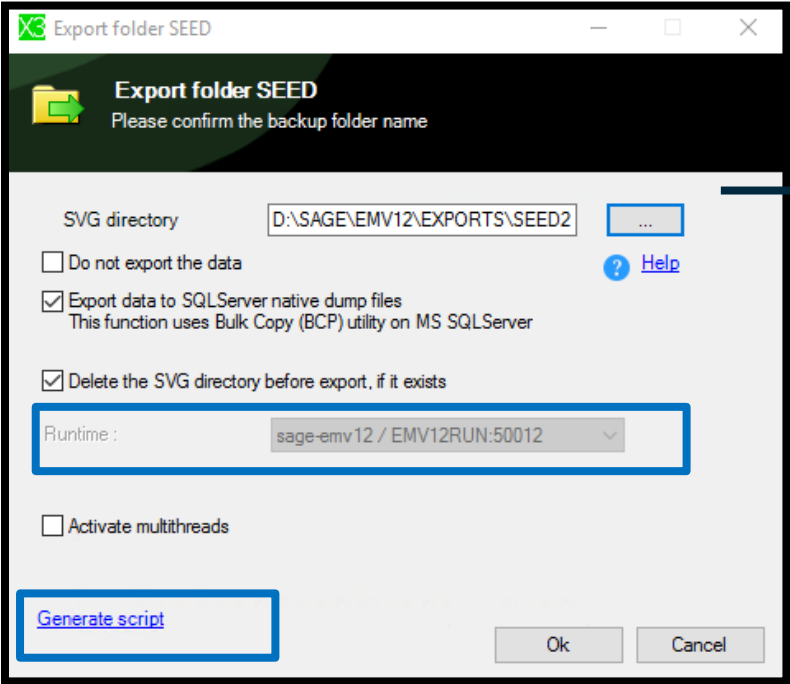
Trigger mail     Trigger action     Trigger tracking     Debug mode     Use a theme

# Sage X3 Console (2.57) Enhancements

# Folder Exporting

Console version 2.57, released with 2023 R1, has some new features to help handle large datasets. These improvements have been introduced to help with the migration of environments where the datasets have grown over time (V6).

SVG Directory no longer has to be a subfolder of the data folder. We can now export the folder data to an absolute path which could be another drive.



The location has to be configured in the configRuntime.json file found in the runtime\cfg directory.

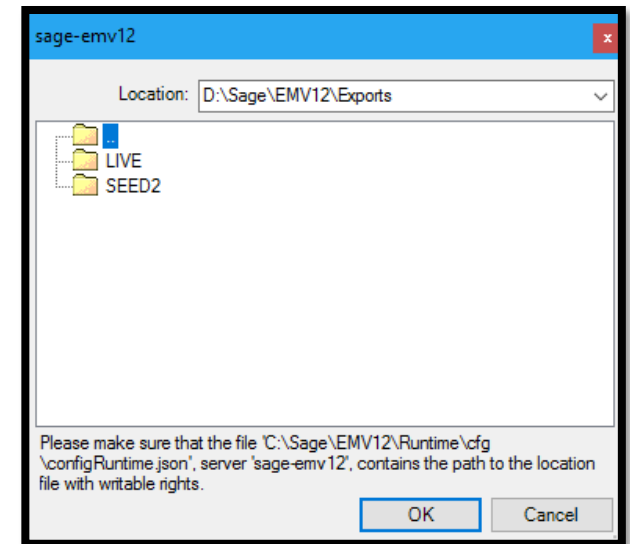
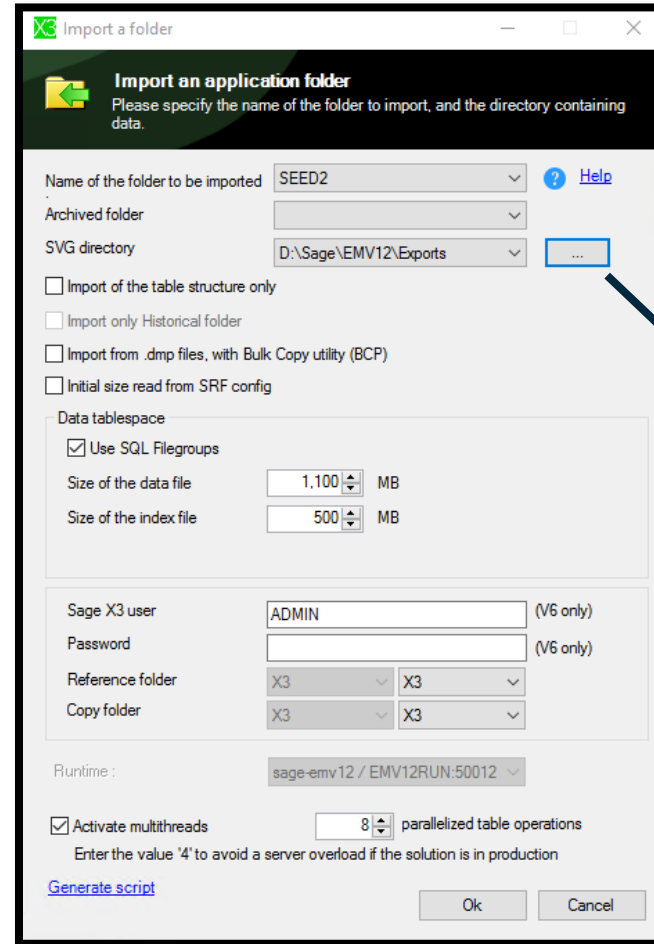
Although not a new feature there is also the option to specify a runtime for the process

```
},  
{  
  "path": "D:\\Sage\\EMV12\\Exports",  
  "extensions": ["*"],  
  "writable": true  
},  
{
```

# Importing

The importing functionality has also been improved, as with exporting, the SVG directory no longer has to be a subdirectory of the folder, so we can now import from an absolute path.

- Database tables are sorted and imported based on the sizes of the "tablename.dat" files, starting from the largest and descending to the smallest.
- The program creates HardLink or Symbolic links to the data files (.dat) and does not copy or duplicate the data files from the SVG directory to the "FIL" directory. The new process saves space and time during the import.
- As with export, there is also the possibility to generate a script which can be used to initiate the import with the same settings

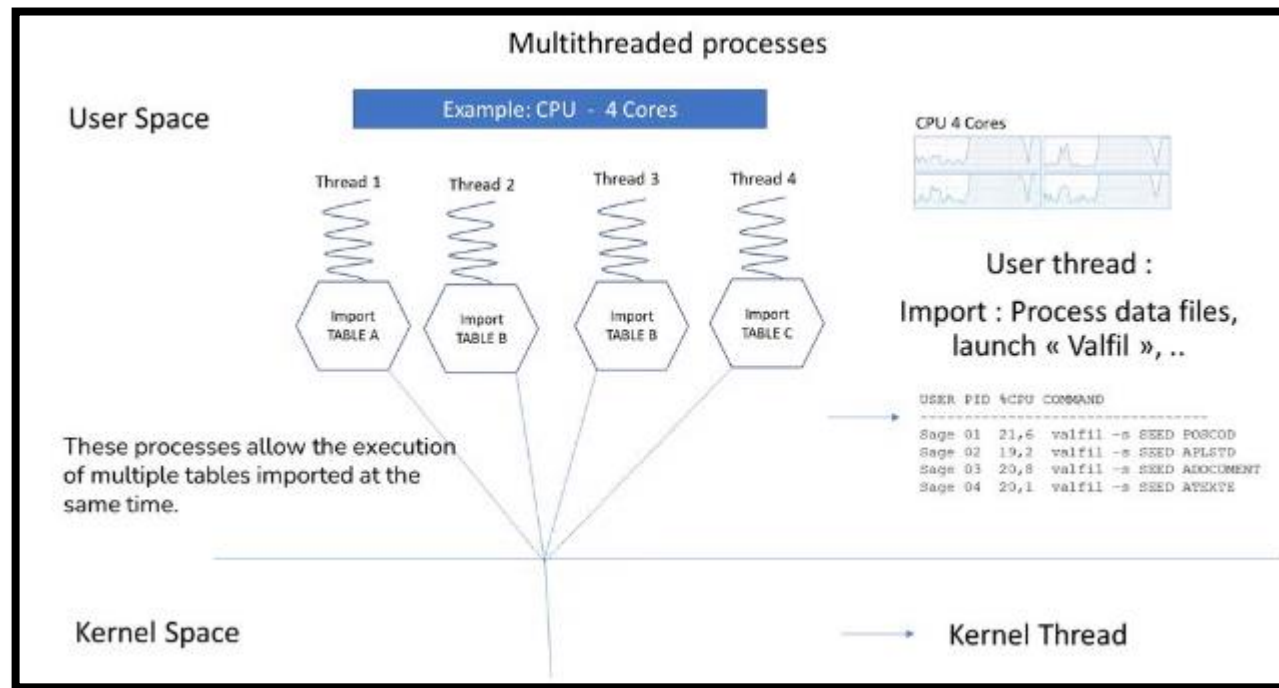




# Multi-Threading

The folder import and export now support multi-threading.

The import process can now handle multiple tables simultaneously. Each table import is started on a particular thread. The program launches at least 8 threads/ 8 tables import at the same time, and more if the number of CPU cores is greater than 8. In testing this improvement showed a 50% reduction in the time taken.



More details available in the console 2.57 help

# Print server

Parameter 'Activate ODBC User data source' is now available in the print server configuration, not just in expert mode.

When configuring the Print Server service, the default type for the ODBC data source is "System," assuming that the Windows user associated with the logon account for this service has administrator rights. If the user does not have administrator rights, the creation of the System DSN will fail. If the user has restricted rights, you can set the value to "On" in order to create a User ODBC data source exclusively for that particular Windows user.

The image shows two overlapping windows. The background window is the 'Configuration for 'DEFAULT' profile' for 'PRTSRVPRV' in 'Direct mode'. It displays a table of parameters for the 'Sage X3 Print server on x3erp23r1sqlprv' service. The 'Activate ODBC User datasource' parameter is highlighted with a red box and set to 'on'. The foreground window is the 'ODBC Data Source Administrator (32-bit)' dialog, showing the 'User DSN' tab. The 'User Data Sources' table lists 'ADX\_X3ERP23R1PRV' as a User DSN using the 'ODBC Driver 17 for SQL Server'.

Parameter	Value
PrintServer service port	1890
User ID / PrintServer service	x3admin
User password / PrintServer service	.....
Activate ODBC User datasource	on

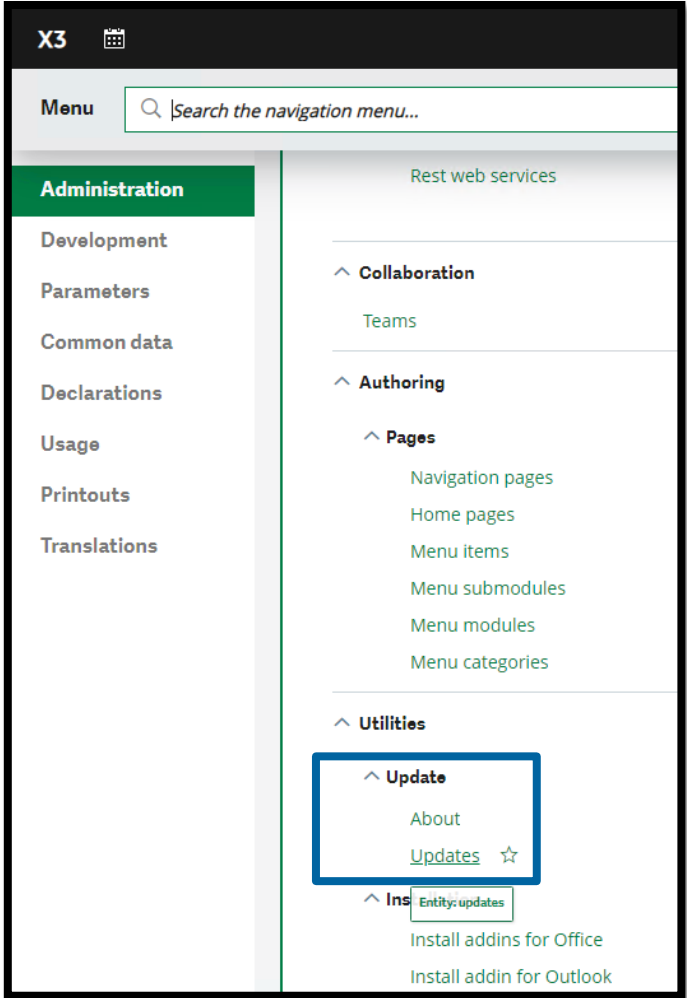
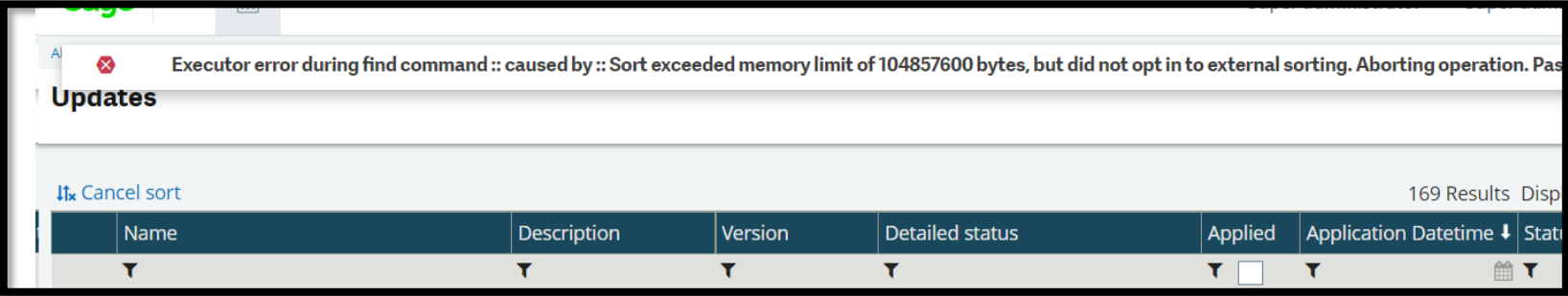
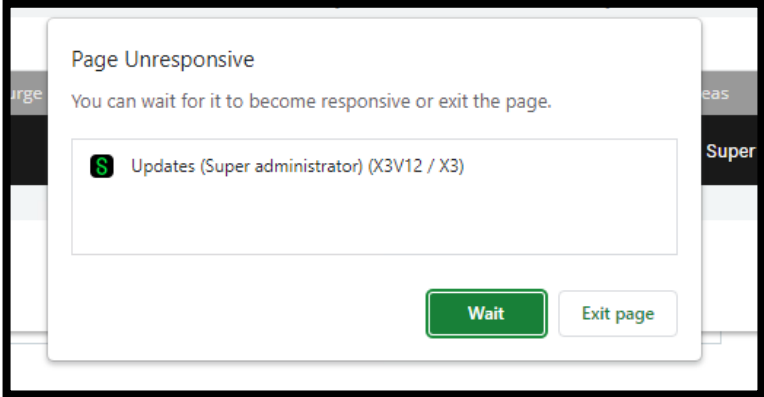
Name	Platform	Driver
ADX_X3ERP23R1PRV	32/64-bit	ODBC Driver 17 for SQL Server
dBASE Files	N/A	Microsoft Access dBASE Driver (*.dbf, *.r
Excel Files	64-bit	Microsoft Excel Driver (*.xls, *.xlsx, *.xlsm,
MS Access Database	64-bit	Microsoft Access Driver (*.mdb, *.accdb)

# 2023 R1 Updates Function

# Update's Function Performance

The performance of uploading and managing large updates has been improved; you may have seen this in the past with

- Page unresponsive message saving updates
- Error messages when sorting applied updates
- Error messages when selecting folders



# Updates Function Display

The update's function display has been improved with colour coding added to the patch results columns making it easier to identify the results.

**Apply to**

X3 root endpoint  
X3

Endpoints describe services locations

X3 folders

Name	Parent	Version	Updated	Status	Integration	Generation	Log	Detailed status	Legislations
X3		90.19.0	22/07/2022	Success	Success	Success			FRA,BRI,CHI,GER,ITA,POR,SPA,USA,POL,SWI,ZAF,AUT,ANG,AUS,BEL,BRA
SEED	X3	90.19.0	22/07/2022	Warning	Warning	Success			FRA,BRI,POR,SPA,ITA,USA,CHI,POL,BEL,AUS,ZAF,GER,ANG,AUT,SWI,ARE,SAU
PU9MIG	X3	90.19.0	22/07/2022	Warning	Warning	Success			FRA,BRI,POR,SPA,ITA,USA,CHI,POL,SWI,RUS,AUS,ZAF,GER,ANG,AUT,BEL
LIVE	X3	90.19.0	22/07/2022	Warning	Warning	Success			BRI

**Result status**

Status: Warning (orange square)

Integration status: Warning (orange square)

Generation status: Success (green square)

Detailed status: The update finished with warnings

20 Results Display: 20

Integration status	Generation status	Detailed status
Error		The update failed with error: Th
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful
Success	Success	Update successful

X3 ProductUpdate	Version	Integration status	Generation status	Detailed status
X3_ProductUpdate_2022R4_P33_08.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_09.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_10.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_13.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_14.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_15.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_16.02.2023	R090.032.067	Success	Success	Update successful
X3_ProductUpdate_2022R4_P33_17.02.2023	R090.032.067	Success	Success	Update successful

# 2023 R1 OS & SQL Server

# SQL Server changes

- Sage X3 2022 R4 has been certified with Windows Server 2022
- Sage X3 2023 R1 is certified with both Windows Server 2022 and SQL Server 2022
- SQL 2022 New features [What's new in SQL Server 2022 - SQL Server | Microsoft Learn](#)
- In order to take advantage of new features, make sure customers have the latest compatibility level, if they have migrated from older versions of SQL Server.
- Detailed prerequisite information can be found online
  - [V12 prerequisites \(sageerpx3.com\)](#)
  - [Prerequisites overview \(sageerpx3.com\)](#)

# Appendices





# Useful Links

Resource	Link
What's new info available on Sage University 1 <sup>st</sup> of June	<a href="#">CoEx New Features Highlights</a>
Attachments online help	<a href="#">Attachments online help</a>
Node.js version 18 support update	<a href="#">Sage X3 Red Hat &amp; Linux Update</a>
Sage X3 Release notes	<a href="#">All V12 release notes</a>
Prerequisites information for V12	<a href="#">Prerequisites overview</a>
Technical online help	<a href="#">Technical help</a>
SAP Online help	<a href="#">Supported HTML tags in Crystal reports</a>
SQL Server 2022 what's new	<a href="#">What's new in SQL Server 2022 - Microsoft Learn</a>
Microsoft Graph API Help & tools	<a href="#">Microsoft Graph APIs - Microsoft learn</a>
Exchange basic authentication update from Microsoft	<a href="#">Basic Authentication in Exchange Online - Microsoft Learn</a>

# Thank you!

