SAP B1 Template Generation System (STES)

Manual Guide

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Introduction

This document describes the STES Template Generation System. It contains Manual specification or guide that will help the user on the configurations, pre-requisites and how to navigate in the system.

Add-on Overview

The STES Template Generation is a system developed to excel template following the format. Using this will help users to easily generate formatted excel.
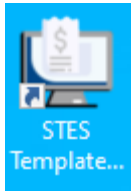
Manual Guide

A. SAP B1 Configurations

     i.

➢ **Post Transaction Notification**
- Deploy using **POST_TRANSACTION_NOTIFICATION.txt**

➢ **Transaction Notification**
- Deploy using **TRANSACTION_NOTIFICATION.txt**

➢ **Formatted Search**
- Deploy using **FMS.txt**

    EI_Buyer
    EI_CommClass
    EI_GoodsOriginCountryCode
    EI_InvTypeCode
    EI_MSICCode
    EI_PayCode
    EI_ShippingRecipient_AP
    EI_ShippingRecipient_AR
    EI_Supplier
    EI_TaxSchemeCode
    EI_TIN
    EI_UoMCode

B. Manual Template Generation – after clicking the icon in the desktop, this screen will show (if ExtractMethod in configuration was in manual)


- **Date From** – Document's From Posting Date
- **Date To** – Document's To Posting Date
- **Document Number From** – This is optional
- **Document Number To** – This is optional
- **Extract Button**- Start the extraction of Document/s based on the date filter
- **Upload Progress** – Progress of the extract to advise user on the time left before completion

Note: Only the Documents submitted in SAP B1 using the E-Invoice Add-On will be extracted as an excel file (xlsx).

C. Automatic Template Generation - screen to show when ExtractMethod in configuration was in automatic. Follow the screenshot accordingly.
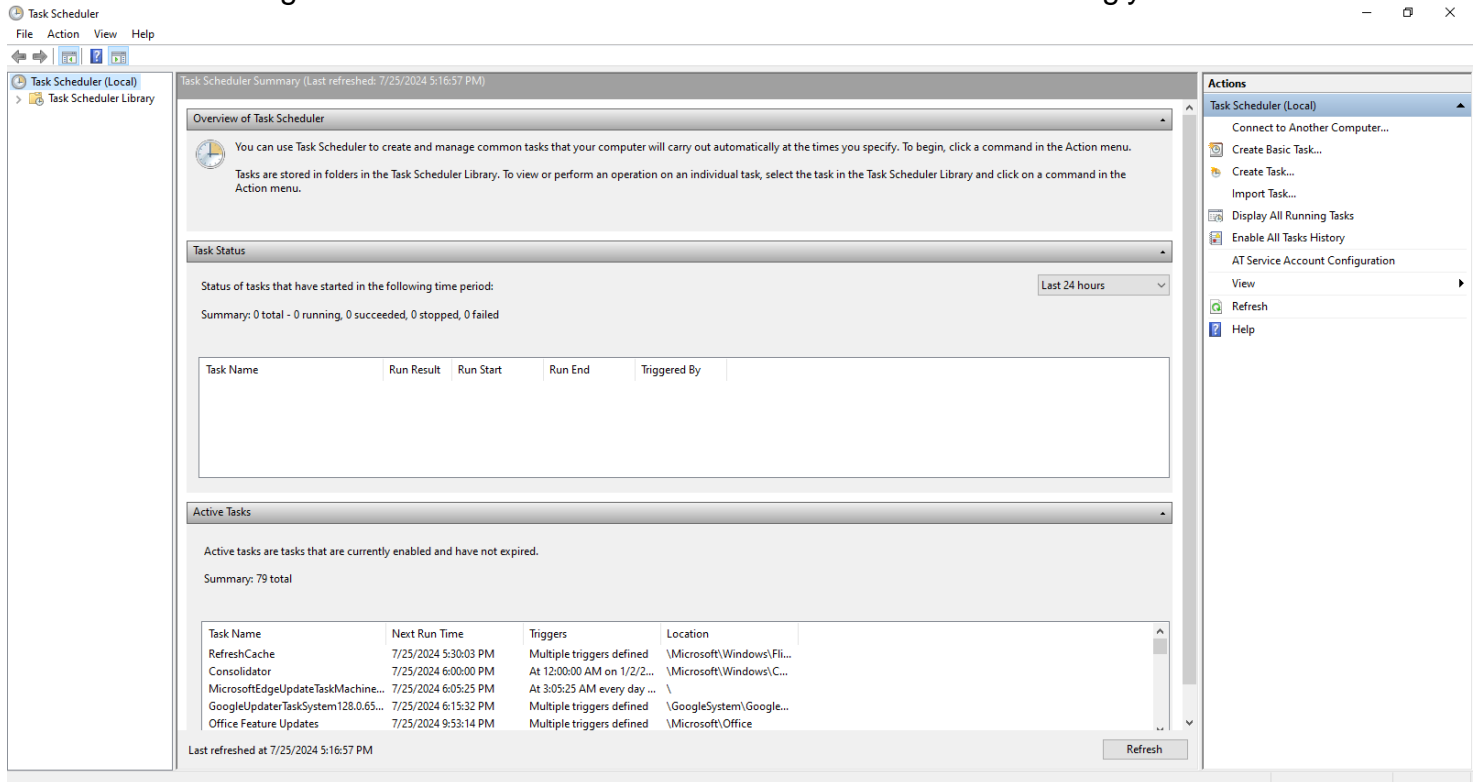
- Dev to setup STES Template Generation System.exe file and configure the timing of extraction using **Task Scheduler**
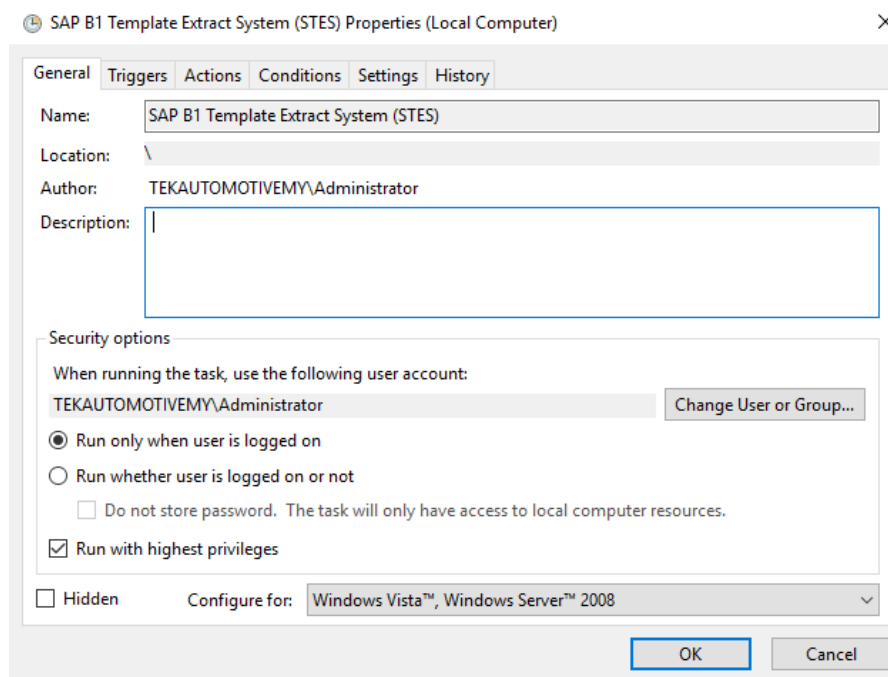
- Make sure to use the user account (preferably admin) with the highest privileges to run the task

Edit Trigger ✕

Begin the task: On a schedule

Settings

- ○ One time   Start: 12/12/2024 ▾ 11:00:00 PM ▲▼ ☐ Synchronize across time zones
- ◉ Daily
- ○ Weekly   Recur every: 1 days
- ○ Monthly

Advanced settings

- ☐ Delay task for up to (random delay): 1 hour ▾
- ☐ Repeat task every: 1 hour ▾   for a duration of: 1 day ▾
  - ☐ Stop all running tasks at end of repetition duration
- ☐ Stop task if it runs longer than: 3 days ▾
- ☐ Expire: 12/12/2025 ▾ 2:54:25 PM ▲▼   ☐ Synchronize across time zones
- ☑ Enabled

OK   Cancel

Edit Action ✕

You must specify what action this task will perform.

Action: Start a program ▾

Settings

Program/script:

"C:\Program Files (x86)\STES Template Extract x86\eInvoic   Browse...

Add arguments (optional):

Start in (optional):

- Make sure to assign the .exe file and the folder contain it had security access set to 'everyone'

SAP B1 Template Extract System (STES) Properties (Local Computer) ✕

| General | Triggers | Actions | **Conditions** | Settings | History |

Specify the conditions that, along with the trigger, determine whether the task should run. The task will not run if any condition specified here is not true.

Idle

☐ Start the task only if the computer is idle for: `10 minutes ⌄`

    Wait for idle for: `1 hour ⌄`

    ☑ Stop if the computer ceases to be idle

        ☐ Restart if the idle state resumes

Power

☑ Start the task only if the computer is on AC power

    ☑ Stop if the computer switches to battery power

☑ Wake the computer to run this task

Network

☐ Start only if the following network connection is available:

`Any connection ⌄`

SAP B1 Template Extract System (STES) Properties (Local Computer) ✕

| General | Triggers | Actions | Conditions | **Settings** | History |

Specify additional settings that affect the behavior of the task.

☑ Allow task to be run on demand

☐ Run task as soon as possible after a scheduled start is missed

☐ If the task fails, restart every: `1 minute ⌄`

    Attempt to restart up to: `3` times

☑ Stop the task if it runs longer than: `3 days ⌄`

☑ If the running task does not end when requested, force it to stop

☐ If the task is not scheduled to run again, delete it after: `30 days ⌄`

If the task is already running, then the following rule applies:

`Do not start a new instance ⌄`

D. STES Logs Query Report – screen to check the STES logs

- **Setup the Status in SAP B1** – This can be located under *SAP B1 > Tools > User-defined windows > STES Status.* No need to setup this if HANA.

STES Status

#	Code	Name	Status Code	Status Name
1	1		S	Success
2	2		F	Failed

Note: *For Hana Database, the filter will contain S and F only. Where S is Success while F is Failed.*

- **Setup the Query Report in SAP B1** – This can be located under *Queries > Query Manager > Search STES Logs under Query Name text input*

STES Logs

- **Query Report Output** – This will contain the logs if the Notification Configuration is in Automatic

STES Logs

```
/*SELECT "U_StatusName" FROM [@STES_STATUS] T0;*/
/*SELECT DISTINCT "U_Date" FROM [@STES_LOGS] T1;*/

DECLARE @Status NVARCHAR(100);
DECLARE @DateFrom DATETIME;
```

#	LOG_STATUS	LOG_DATE	LOG_TIME	LOG_FILE_NAME	LOG_MESSAGE	LOG_EXTRACT_TYPE
1	Success	25/11/2024	15:52	PU240824083008_invFile_20241125155050.xlsx	Export on file C:\\Users\\Chris\\Documents\\SAP B1 Extract\\PU240824083008_invFile_20241125155050.xlsx completed	Manual
2	Success	25/11/2024	15:57	PU240824083008_invFile_20241125155717.xlsx	Export on file C:\Users\Chris\Documents\SAP B1 Extract\PU240824083008_invFile_20241125155717.xlsx completed	Manual
3	Success	25/11/2024	15:57	PU240824083008_invFile_20241125155735.xlsx	Export on file C:\Users\Chris\Documents\SAP B1 Extract\PU240824083008_invFile_20241125155735.xlsx completed	Manual

Note: *This will contain the Stored Procedure Query Structure if MS SQL and Query only if HANA*

General Notes

1. If below "Cannot Access" error was encountered, file to be replaced was currently open. Close that open file and try again

```
Process Template All Error -
System.Runtime.InteropServices.COMException (0x800A03EC): Cannot
access 'F1_C25184768030_invFile_240816.xlsx'.
   at Microsoft.Office.Interop.Excel._Workbook.SaveAs(Object Filename,
Object FileFormat, Object Password, Object WriteResPassword, Object
ReadOnlyRecommended, Object CreateBackup, XlSaveAsAccessMode
AccessMode, Object ConflictResolution, Object AddToMru, Object
TextCodepage, Object TextVisualLayout, Object Local)
   at
GTES_Template_Extract.Modules.Template.ProcessTemplate(Background
Worker backgroundWorker) in
C:\PXC\CHRIS\SKP\ STES_Template_Extract\ STES_Template_Extract\Modul
es\Template.cs:line 198
```

2. If "**Not connected to a company**" error was encountered, check the configuration file if the encrypted credential, server details and SAP B1 configuration were correct

   Go to this link for the list of configuration per client (Can only be accessed by Pixelcare personnel)

   eInvoice Client Configurations_v1.zip

3. Make sure that the MS Office had the same/compatible version and is activated

Technical Configurations – contains the technical inputs required in the system

1. **Common Path location**: *C:\Program Files\STES Template Extract x64 or C:\Program Files\STES Template Extract x86*

```xml
<!-- AUTHENTICATION -->
<add key="CreateUtilities" value="N" /> <!-- Deploy UDT and UDF -->
<!-- Y - Yes; N - No -->
<add key="Server" value="            " />
<add key="LicenseServer" value="           :30000" />
<add key="CompanyDB" value="                  " />
<add key="UserName" value="manager" />
<add key="Password" value="k2+ix512eATes97of15ueA==" />
<add key="DbUserName" value="sa" />
<add key="DbPassword" value="SBmgHa8Ia27+06sC57KBTg==" />
<add key="ServerVersion" value="2014" /> <!-- SQL Version (2019); HANADB-->

<!-- FILE NAMING -->
<add key="FileName" value="eInvoice" />
<add key="FileExtension" value="xls" />

<!-- PATH AND FOLDER NAMES -->
<add key="FilePath" value="C:\Users\                              Documents\" />
<add key="MainFolderName" value="SAP B1 Extracted Files" />
<add key="ManualFolderName" value="Manual" />
<add key="ScheduleFolderName" value="Schedule" />
<add key="BranchFolderName" value="    Auto Branch" />

<!-- SYSTEM BEHAVIOR CONFIGURATION -->
<add key="Notification" value="L" /> <!-- L - Logs; M - Messagebox -->
<add key="ExtractMethod" value="A" /> <!-- A - Auto; M - Manual -->
```

Authentication

- **Create Utilities** – Yes or No, if yes, it will deploy the UDT, UDF and stored procedures. For re-deployment, you can do it manually or delete all the stored procedures and run this
- **Server** – SQL/HANA Server Name (with IP Address depending on the infrastructure)
- **LicenseServer** – SAP B1 License Server with Port
- **CompanyDB** – Company Database
- **Username** – SAP B1 User name
- **Password** – SAP B1 Password

- **DBUserName** – SQL/HANA Username
- **DBPassword** – SQL/HANA Password
- **ServerVersion** – MSSQL (2014, 2016, 2019 and etc)/HANA Version

File Naming

- **FileName** – Declare the file name/description
- **FileExtension** – Declare the file extension

Path and Folder Names

- **FilePath** – Location path of extraction
- **MainFolderName** – Main Folder inside the File Path
- **ManualFolderName** – Sub Folder inside the Main Folder
- **ScheduleFolderName** – Sub Folder inside the Main Folder
- **BranchFolderName** – Sub Folder inside the Manual or Schedule Folder

System Behavior Configuration

- **Notification** – Type of trigger to notify user either by Automatic or A (Query Logs) or Manual or M (Screen notification)
- **ExtractMethod** – M for Manual or A for Automatic

Note: Failed to do this will result to errors or inconsistencies

2. **Microsoft Excel must be installed –** should follow the same version below accordingly or whichever is compatible (advise dev to test and validate)

| Microsoft Office LTSC Professional Plus 2021 - en-us | Microsoft Corporation | 7/17/2024 | 16.0.14332.20736 |