Introduction

TSW Localization is a feature of TSW that allows the TSW application to be available in several languages. This document presents the steps involved in translating (localizing) a TSW language resource library. The localization process consists of five steps:

- 1. The satellite resource DLLs translation
- 2. The system language files translation
- 3. The 3PII database file translation
- 4. The DACR mapping files translation
- 5. The runtime online help translation

Note: Read through this entire document before executing the procedure.

System requirements

Table 1 lists the software required to translate the TSW Resource, Language and Help files.

Table 1: Required TSW software components

Parameter	Requirements
Operating system	Windows 10 or Windows 11
Online help authoring tool	OxygenXML Editor 23.1 or higher
Screen resolution for TSW	1024x768 or higher (1280x1024 is recommended)

Satellite Resource DLLs translation

This section deals with translating all the text strings that are embedded inside the Resource DLLs. The full process consists of the following steps:

- 1. Preparing the .txt file
- 2. Translating the .txt file
- 3. Generating the Translated Satellite Resource DLLs

Note: The working directory for all steps in this section is WFW\ResourceDLLs inside the Localization kit.

Preparing the .txt file

To prepare the .txt file prior to translation, rename the tswui.LanguageCode.txt file to a name TSW can recognize.

Note: The file tswui.languageCode.txt is located in WFW\ResourceDLLs\en-US of the Localization Kit.

Replace LanguageCode with the required language code, found at http://msdn.microsoft.com/ en-us/library/ms533052(VS.85).aspx. For example, for Czech, the file is tswui.cs.txt and for French (Canada), it is tswui.fr-CA.txt. The renamed file is now ready for translating.

Note:

- 1. In the sections that follow, tswui.fr-CA.txt is used as an example.
- 2. The file tswui.txt in WFW\ResourceDLLs\en-US is there for backup restoral or reference only.

Important: If the tswui.LanguageCode.txt file is moved to another directory, the rules.txt file must be either copied to the same directory or its other location specified inside the Localize application by clicking on the Tools menu and then clicking on Options. See Translating the .txt file for information regarding the Localize application.

Translating the .txt file

To translate the tswui.fr-CA.txt, use the Localize application. It simplifies the translation by supporting rules, preserving the format of the file and strings, and by allowing easy sorting and filtering.

Note:

- · Install the TSW and Localize software on the same PC prior to running the Localize application.
- If the Localize application is not used to translate the .txt file, any other text editor can be used, as long as it preserves the Unicode format while saving, and has the capability to show multi-line text in a single cell. If the editor modifies the content, ensure the saved values are in proper form. For example, for assembly tswui.g.en-US.resources.eulatext.baml and key Run_9:System.Windows.Documents.Run.\$Content, Excel reformats content to **1**. After saving, change it back to **1**.

To translate the file, complete the following steps:

- 1. Double-click the Localize.exe file under WFW\Localize of the Localization kit to launch the Localize application.
- 2. Inside the application, click the **File** menu and then click **Open**. Inside the **Open** window that appears, browse to the location of the tswui.fr-CA.txt file and double-click to open it.
- 3. Click the Filter icon at the top right-hand side of the Localize application.
- 4. In the new row that appears, type **true** under the **Readable** column. See Figure 1. Click away or wait for a short period. All rows that do not have a check mark in the **Readable** column are hidden.

Note: Unless specifically instructed, it is safe to hide rows where **Readable** is **false**. The filter may be used for any of the columns to find any existing text. See the last note of section for details on where these special cases can be found.





Figure 1: Applying the filter

File	Edit Tools Help						
	Section	Key	Category	Readable true	Content	Comments	×
4	tswui.g.en-US.resources	Binding_4:System.Wind	None		Name		•
	tswui.g.en-US.resources tswui.g.en-US.resources			~	Job Name OK		

5. Translate the strings located under the **Content** column. The **Comments** column contains tips that may be helpful during the translation. See Table 2 for translation guidelines. Save the tswui.fr-CA.txt file periodically during the translation.

Note: The rules.txt file determines which rows are hidden in the Localize application, and contains comments for specific rows. These comments appear in the **Comments** column.

Table 2: Guidelines for string translation

Task	Guidelines										
Sort by the Section column	 Click a column's header to sort in an ascending or descending order. The second click the same column's header reverses the sort order. Sort or filter by the Section column so that each dialog can be completed one at a time. For example, translate the About Node dialog by filtering the section for tswui.g.en-US.resources:aboutnodedlg.baml. Limit the number of rows to that dialog by typing aboutnodedlg into the filter field under the Section column. Filters work on parts of strings and support * and ? wildcards. 										
What to translate	After filtering the Readable column and choosing a specific Section , filter the										
	 Key column for the following strings and translate the Content strings: .Content .Title .Header .ToolTip .InputGestureText .OKButtonText .ButtonText .ButtonText .ResourceString.Value .Text .ErrorContent .\$Content .\$Content Important: Modify words with a pound sign (#) extremely carefully when translating strings associated with .\$Content. For example, in the case of #Grid_1;, if the Content string does not have any other human-readable text, you do not need to translate it. A notable exception is Section: reportview, Key: TextBlock_2. 										
How to translate	Some Content and Comments strings are too long to be displayed fully. The Localize application repeats them in a Details pane. See Figure 2. The Content string can be modified by selecting a row and clicking the cell in the Content column. The Content and the Comments strings in the details pane are for reference only. Figure 2: Details pane and editing content										
	C:\Documents and Settings\lnetroussov\Desktop\TSW_Localization 🗖 🗖 🗙										
	File Edit Tools Help										
	Section Key Category Readable Content Comments X TSWResources. System:String None V TSW server can not I Image: Content in the server can not integration in the server can not integrated in the ser										
	TSWResources. System:String None V TSW kernel can not I Please make sure vo										
	Content: TSW kernel can not be started because a PC reboot has been initiated. Please make sure you reboot the PC before attempting to start TSW										
	Comments:										
	TSWResources. System:String None Unable to open TSW										
	TSWResources, System:String None 🔽 TrueSite Workstation										



	Table 2: Guidelines for string translation
Task	Guidelines
How to Translate	 If the original text is contained in multiple lines, the multiple-line format has to be maintained according to the original text. For example, keep two lines if the original cell had two lines. Maintain {#}, where # is a digit, usually 0, 1, 2, etc. These are placeholders for text to be added dynamically by the code. For example, There are {0} seconds remaining. The underscore denotes the character that follows it as a shortcut key when navigating through the application using the keyboard. For better keyboard navigation, use underscores. Avoid any duplicate shortcut characters within the same Section (for example, Can't have Fi_le and Too_ls). Underscored characters do not need to be the same characters as in English. The XML escape sequences need to be used. The following are examples of escape sequences and what they correspond to: & & &
If the Localize application is not used	 Translating strings that do not match the, Readable= "false", and filters in the What to translate row can produce undesirable results during runtime. Never delete or add any new rows. Never modify any column but Content column. Never modify any empty cell inside Content column. Read and follow comments in the rules.txt file.



Generating the translated Satellite Resource DLLs

After the tswui.fr-CA.txt file is translated and saved, the last step is to generate two Resource DLLs for the translated language. Follow these steps to generate the DLLs:

Note: If the Localize application is not used, follow the steps below to use the file GenerateSatelliteDLLs.bat file to obtain the two Resource DLL files.

- 1. Launch the Windows Command Prompt and browse to the directory where the GenerateSatelliteDLLs.bat file is located.
- 2. Execute the command *GenerateSatelliteDLLs <\anguage code>*. The two DLL files are generated as follows:
 - <language code>\tswui.resources.dll
 - <language code>\TSWResources.resources.dll

For example, executing GenerateSatelliteDLLs fr-CA would produce the two files below:

- fr-CA\tswui.resources.dll

- fr-CA\TSWResources.resources.dll

The fr-CA is the folder located under the same directory as the .bat file. Copy this folder to the locations mentioned in steps 5 and 6 in Generating the translated Satellite Resource DLLs.

- 1. Copy the LocBaml.exe file from the ResourceDLLs folder in the Localization Kit, into C:\Autocall\TrueSite\TSW\Client.
- 2. With the tswui.fr-CA.txt still open in the Localize application, click the Tools menu and then click Options.
- 3. In the **Options** dialog box that appears, select the new location of the LocBaml.exe file and click **OK** to close the window.
- 4. Back in the main screen, click the **Tools** menu and then click **Build**.
- 5. In the **Build Options** dialog box Figure 3), select the Path to Resources (the en-US folder under C:\Autocall\TrueSite\TSW\Client) and the Culture (fr-CA). Click the **Build** button to start building the DLLs.

Note: If the Build Options dialog box displays the message Cannot find LocBaml.exe, the path to the LocBaml.exe file needs to be changed to the one in step 1.

If there were no errors during the build, the **Build Options** dialog box closes and the two Resource DLLs (tswui.resources.dll and TSWResources.resources.dll) are generated inside the fr-CA folder which is located inside C:\Autocall\TrueSite\TSW\Client. If there was an error, a LocBaml file is created that can be used to diagnose and fix the build problem.

Figure 3: Build options for the .TXT File

Build options	
Path to resources:	C:\Simplex\TrueSite\TSW\Client\en-US
Resources:	tswui.resources.dll,TSWResources.resources.dll
Culture:	fr-CA
	Build Cancel

6. Copy the fr-CA folder, paste it into C:\Autocall\TrueSite\TSW and delete the tswui.resources.dll from the folder pasted in the new location (Figure 4).

Figure 4: Target client and server files

🔁 fr-CA	
File Edit View Favorites Tools Help	A
Address 🗁 C:\Simplex\TrueSite\TSW\Client\fr-CA	💌 🄁 Go
File and Folder Tasks Image: Style Sty	
🔁 fr-CA	
File Edit View Favorites Tools Help	
	 □ × 1 1



System language files translation

This section deals with translating the language files that TSW uses. The language files translation is a three-step process:

- 1. Setting the Language
- 2. Translating the String.dat file
- 3. Modifying the sos.INI file

Note:

- .dat files must stay in ANSI format not Unicode.
- If you use non Western character encoding, for example Arabic, set the Windows System ANSI Code page before you start the **Localize** app:

To change your system's locale, complete the following steps:

- 1. Access the Windows Control Panel.
- 2. Select Region and Language.
- 3. For Windows 10, click Clock, Language, and Region first; and then click Region.
- 4. Click the **Administrative** tab.
- 5. Under Language for non-Unicode programs, click Change System Locale.
- 6. Choose the locale for your required language.
- 7. Click OK.
- 8. Restart Windows, start the Localize app, and translate the .dat file.

Setting the language

Update the TSW configuration files so the TSW can use the translated language files. Follow the steps to update the files with and without the Localize Application:

With the Localize Application

- 1. Inside the Localize application, click the **Tools** menu and then click **Configure TSW**.
- 2. In the **Configure TrueSite Workstation** dialog box that appears, select the path to the Server installation directory. The default location is the TSW installation folder C:\Autocall\TrueSite\TSW.

Note: In the case of a client-only installation, a valid server path is not required.

Figure 5: Configure TrueSite Workstation dialog box

🗖 Configu	re TrueSite Workstation
Server:	C:\Simplex\TrueSite\TSW
Client:	C:\Simplex\TrueSite\TSW\Client
Culture:	fr-CA 🔽 Double-byte Enable Merge
Extension:	FRH
	Configure Cancel

3. Select the path to the Client installation directory. The default location is C:\Autocall\TrueSite\TSW\Client.

Note: If the error Cannot find d:\path\to\TSWClient.exe.config displays, the Client's installation directory is incorrect.

4. Select the **Culture** that matches the one selected for the Resource DLLs (fr-CA).

Note: For steps 5, 6 and 7, if the String.dat file has not been translated yet, leave the **Double-byte** and **Enable Merge** checkboxes unchecked, and enter **.ENG** as the Extension.

- 5. Check the **Double-byte** checkbox or do not check **Double-byte** checkbox. Refer to section **Translating the String.dat and String.bin files** to see which case applies.
- 6. Put a checkmark in the **Enable Merge** checkbox only when default point labels need to be translated during job build in the TSW Configurator. **Note:** The setting of the **Enable Merge** checkbox corresponds to the line [Configurator32] MERGE inside the sos.ini file.
- 7. Enter the same extension as the one used in the section Translating the String.dat and String.bin files.
- 8. Click **Configure** to start the TSW configuration file updates.

If the configuration succeeds, the **Configure TrueSite Workstation** dialog box closes. Error messages appear if the configuration fails.



Without the Localize Application

To update the configuration files manually, use a text editor to access the applicationSettings section and change the value of the language entry from the default (en-us) to the required language code (fr-CA) in the following configuration files:

- tswkrnl.exe.config in the TSW folder (C:\Autocall\TrueSite\TSW)
- tswclient.exe.config and tswdesktop.exe.config in the Client folder and TswServerDesktop.exe.config (C:\Autocall \TrueSite\TSW\Client)
- TSWBackupUtility.exe.config in the TSW folder (C:\Autocall\TrueSite\TSW)
- TswFileTransfer.exe.config in the TSW folder (C:\Autocall\TrueSite\TSW)

Important: To avoid TSW startup failure, use an editor that does not change the format of the files, for example, Notepad. Do not use Microsoft Word.

Full installation	For a full installation, the language must be set in all .config files. For a client-only installation, there is no tswkrnl.exe.config file and the language must be set in the tswclient.exe.config, tswdesktop.exe.config and TswServerDesktop.exe.config files.
Re-installation or upgrade	On a re-installation or an upgrade:
	 Copy the existing tswkrnl.exe.config to tswkrnl.exe.config.backup. Copy the existing tswclient.exe.config to tswclient.exe.config.backup.
	 Copy the existing tswdesktop.exe.config to tswdesktop.exe.config.backup.
	TswServerDesktop.exe.config to TswServerDesktop.exe.config.backup If you have an existing translation, verify that these files have the language set properly after the new installation completes.

Translating the String.dat and String.bin files

This section describes the translation process of the String.dat and String.bin TSW language files. You can locate these files, and BuildLg.exe, inside the wFW folder of the Localization Kit.

Complete the following steps to perform the translation with and without the Localize application:

1. Create a copy of the String.dat file and rename the copy to reflect the translation language. For example, French.dat if the translation is in French.

Note: The filename must follow the "8.3" convention: an eight-character-maximum filename and a three-character-maximum extension. The file must reside in a folder the path to which contains only "8.3"-named folders. For example, C:\Autocall\TrueSite\TSW is acceptable.

2. Create a copy of the String.bin file and rename the copy to reflect the translated name of the .dat file. For example, String.bin becomes French.bin if the translation is in French.

Important: If you move French.dat to another directory, copy French.bin, and rules.txt to the same directory.

- 3. Translate the string.dat file using the Localize application or without it. See Table 3 for guidelines to translate using either method
- 4. Once the .dat file is translated and saved, generate the language files for the translated language. See Table 4 for steps to generate the files with and without the Localize application.

Note: string.dat contains 47 different sections. For translation purposes, 13 of these sections do not require translation as they contain TSW Configurator-specific strings. Each section begins with a line that starts with GROUP_DEFINE, followed by ten digits and a string that identifies the section. For example, GROUP_DEFINE 1173748968 "helpeng", where "helpeng" is the language section identifier. The following 13 sections do not require translation: "ale", "color", "ctled", "edit", "hw", "hwdb", "netdb", "odbe", "opt", "prog", "rh", "soserr", "util"

Table 3: Guidelines for string translation

With the Localize Application	Without the Localize Application				
that do not need to be translated.	You can use any text editor, for example Notepad, to translate the French.dat. The format of the translated strings is as follows:				
translated.	STR_DEFLABEL_DP0 //MAX 40 ALARM ACTIVE LIST FULL "LISTE D'ALARME ACTIVE COMPLÈTE"				
• The Comments column contains additional tips to help with the translation.	Note: Do not modify the first line of the pair. The second line is the translation. Do not translate lines beginning with GROUP_DEFINE.				
Note:					

Do not use tildes. All tildes (~) are safe to remove.

- 2. All formatting codes ("%" immediately followed by one or two letters) must be preserved as is. Formatting codes indicate that a given string is replaced/altered when displayed.
- 3. Special characters, including "\n", "\r", "\t" (newline, carriage return, and tab respectively) must be preserved as is.



	Table 4: Generating language files wit	ith and without the Localize Application
Wi	th the Localize Application	Without the Localize Application
1.	Click the Tools menu and then click Build . Note: If the Build menu is disabled, ensure that the path to the Buildlg.exe file is correct by clicking the Tools menu and then	 Launch the Windows Command Prompt and navigate to the directory containing the .dat and .bin files by using appropriate commands. Once you access the appropriate directory, enter the command
2.	Options . Inside the Build Options dialog box that appears choose the output directory for the translated language files. In the current example, the	buildlg string .ext 1 (Figure 7). The breakdown of the command is as follows: Buildlg: Corresponds to the build-language-file command.
3.	location is C:\Autocall\TrueSite\TSW\Language. Choose the file extension for the translated language files. The file extension format must be .abc.	<pre>String: Corresponds to the translated filename.dat and filename.bin files. .ext: Corresponds to the file extension of the translated files. For example, .FRH for French.</pre>
	Note: The file extension for the translated language files must correspond to the one set in the Setting the language section. In the current example, it is .FRH.	 1: Corresponds to the single byte character set. It can be 2 for a double-byte character set, such as Chinese. 3. After the <i>buildlg string .ext 1</i> command runs, copy the translated
4.	Check the Double-byte character set checkbox if the translation is in a language that requires a double-byte character set, such as Chinese.	language files from translation directory (C:\WFW) into C:\Autocall \TrueSite\TSW\Language (Figure 9).
	Note: The setting for the Double-byte character set checkbox must match the setting for the Double-byte checkbox in the Setting the Language .	
5.	Click Build to generate the translated language files.	
Bui	te: If the message Cannot find buildlg.exe displays in the ild Options, correct the path to the Buildlg.exe file by clicking the ols menu and then Options.	9
	Figure 6: Build options for .dat file	Figure 7: Building the language files
	Build options	C:\WINDOWS\system32\cmd.exe
	Output directory: C:\Autocall\TrueSite\TSW\Language	Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.
	Extension: .FRH	H:\>C:
	Double-byte character set	C:\>cd WFW
	Build Cancel	C:\WFW>buildlg frenchØ1 .FRH 1
		Figure 8: Successful completion of the Buildlg command
		C:\WINDOWS\system32\cmd.exe
		12 Strings added in 3 ranges
		12 Strings added in 6 ranges
		104 Strings added in 2 ranges
		294 Strings added in 1 ranges
		75 Strings added in 7 ranges
		257 Strings added in 48 ranges
		24 Strings added in 1 ranges 54 Strings added in 10 ranges
		21 Strings added in 17 ranges
		18 Strings added in 4 ranges
		150 Strings added in 17 ranges Buildlg Completed.
		C:\WFW>





Figure 9: Copying the French language files into the TSW language directory

Modifying the SOS.INI File

Update the Windows SOS.INI file with the new language setting so TSW uses the translated language files. Follow the steps to update the SOS.INI file:

- 1. Open the sos.INI file located inside the C:\Windows directory.
- 2. Search for the string [Default32] and locate the Language string underneath it. The Language string specifies the language library that TSW loads when starting up.

Note: If there is no Language line, English is selected by default. To enable a language change, modify the Language line (or added) in the following form (case must be preserved):

```
[Default32]
Language=.ENG
"ENG" specifies the 3-letter language extension. For French, the setting is:
[Default32]
Language=.FRH
```

3. Replace the <LANGUAGE> entry by the 3-letter short form of the language of choice in the following strings:

[Default32] ALPHABET=<LANGUAGE>

For French, for example, the previous lines become:

[Default32] ALPHABET=FRH

4. Search for the string [Configurator32] and set MERGE entry to TRUE. See the string below:

```
[Configurator32]
MERGE=TRUE
```

You can now run the TSW with the translated language files.

Note:

- 1. The TSW Configurator is not translated.
- 2. The job database is translated when **MERGE=TRUE** is set and a job is built. Point labels are not translated until the job is rebuilt.
- 3. Set **MERGE=TRUE** to only translate system point labels. Set **MERGE=FALSE** for any other job modifications.
- 4. Character sets for languages like Chinese require changing the string DoubleByteCharSet=FALSE to **TRUE** in the **[Default32]** section of sos.INI file. This must match the last parameter from the Building command as mentioned in Table 4.

3PII database translation procedure

This section describes the translation of the .db file included in the Localization Kit. This file is used for 3PII device strings. Follow the steps below to translate the file:

- 1. Open the **3PII** folder located inside the WFW folder within the Localization Kit.
- 2. Open the file N3DB.LanguageCode.db using the Localize application. This is the .db file associated with the latest version of TSW.
- 3. Click the **File** menu and click **Save As**. Save the file with a language code appropriate to the language. For example, for Canadian French, use the fr-CA language code and save the file as N3DB.fr-CA.db.
- 4. Click a row that you need to translate. Type into the Content column the translation of the text inside the Original column.
- 5. Repeat step 4 for every row that you need to translate. Click the File menu and then click Save to save the changes.
- 6. Copy the .db file, N3DB.dbsec, N3DB.mhk, and paste them into an appropriate folder. For example, paste N3DB.fr-CA.db into: C:\Autocall \TrueSite\TSW\fr-CA.lf an appropriate folder does not exist you must create it.

Note: You must not rename N3DB.dbsec Or N3DB.mhk.

7. Rename the .db file to N3DB.db.

The TSW can now use the translated N3DB.db file.

DACR mapping files translation procedure

The Digital Alarm Communication Receiver (DACR) is a peripheral device used to communicate a panel's alarms to TSW through serial communication. To support communication with the DACR devices, TSW includes a particular set of files specific to DACR. Depending on the configuration, there may be seven or eight files, each one including information about various point types. Only the mapcid.csv file requires some translation. Follow the steps below:

- 1. Rename the mapcid.csv file located inside C:\Autocall\TrueSite\TSW to a name similar to mapcid_english.csv. This will be the original English language copy in case a rollback to English is necessary.
- 2. Open the mapcid.csv file located inside the WFW\Csv of the Localization Kit, in a text editor such as Wordpad.
- 3. Translate the strings under the column **GCC Pt Type**.



Note: The original strings under the GCC Pt Type column must match the original English strings of the string.dat file. The translated strings under the GCC Pt Type column must match the strings of the translated string.dat file. For example, in Figure 10 because the SMOKE string is translated as "FUMEE" inside the .dat file, the SMOKE string inside the mapcid.csv file must be changed to "FUMEE".

🚨 Microsoft Exc	el - mapcid					X	🗗 - Notepad	
Ele Edit	/iew Insert Fg	ormat <u>T</u> ools <u>D</u> at	a <u>W</u> indow <u>H</u>	elp	- 1	5 ×	File Edit Format View Help	
i 🥁 🖁 🛛 Arial	- 10	0 • B <i>I</i> U		🔤 🖽 + 🗳	• <u>A</u> •		DOWN_STR //MAX 8 DOWN	~
2992	0 X 15 X	12 3 0 19	Reply with Char	nges End Re	view		"BAS"	
E5 .	fx SM	OKE					PRESSURIZATION_STR //MAX 14 PRESSURIZATION	
A	В	C D	E	F	G	-	"PRESSURISATION"	
1 Code Type E	Event Code RaEv	vent CcGCC Dev	IGCC Pt Type	GCC Pt St I	IsPointEve	nt	EXHAUST_STR //MAX 8 EXHAUST	
2 DECIMAL	100	129 MONB	SUPPRES	ABNORM/	TRUE		"ECHAPPEMENT"	
3 DECIMAL	100	129 MONB	SUPDUMP	ABNORM/	TRUE	_	PRIORITY STR //MAX 8 Priority	
4 DECIMAL	100	129 MONB	SUPDET	ABNORMA	TRUE		PRIORITY_STR //MAX 8 Priority "Priorite"	
5 DECIMAL	100	129 MONB	SMOKE	ABNORM/	TRUE		TTRE ALADA CTR / MAY 14/ Fine Alarm	
6 DECIMAL	100	129 MONB	VSMOKE	SHORT	TRUE		FIRE_ALARM_STR //MAX 14 Fire Alarm "Alarme Incendie"	
7 DECIMAL	100	129 MONB	SUPDUMP	ABNORM/	TRUE			
8 DECIMAL	100	129 MONB	SUPPRES	ABNORMA	TRUE		SERVICE_MODE_STR //MAX 8 Simplex Service Mode "Mode Service Simplex"	
9 DECIMAL	100	129 MONB	STYLE-C	ABNORMA	TRUE	_	Mode service simplex	
10 DECIMAL	100	129 MONB	ALLOTHER	SHORT	TRUE	_	SMOKE_STR //MAX 7 SMOKE	
11 DECIMAL	100	119 ALLOTHE		FIRE	TRUE	K	"FUMEE"	
12 DECIMAL	130	199 MONB	ALLOTHER	ABNORM/	TRUE	_	UTILITY_STR //MAX 7 UTILITY	
13 DECIMAL	120	199 ALLOTHE		PRI2	TRUE		"UTILITES"	
14 DECIMAL	200	299 MONB	WSC	NORMAL	TRUE		EMPTY_LIST_STR //MAX 10 EMPTY LIST	
15 DECIMAL	200	299 MONB	SC	NORMAL	TRUE		"LISTE VIDE"	
16 DECIMAL	200	299 MONB	URGENCE	ABNORM/	TRUE	-		
17 DECIMAL	200	299 MONB	WSO	ABNORMA	TRUE	-	HISTORICAL_LOG_STR //MAX 15 Historical Log "Jnal historique"	
18 DECIMAL	200	299 MONB	SUPABRT	ABNORMA	TRUE	-		
19 DECIMAL	200	299 MONB	GENFS	ABNORM/	TRUE		SYSTE_RESET_STR //MAX 15 System Reset "Reinit. systeme"	
20 DECIMAL 21 DECIMAL	200 200	299 MONB	LWSO	ABNORM/ NORMAL	TRUE	-	"Reinit, systeme"	
		299 MONB		NURMAL		~	ALARM_SILENCE_STR //MAX 15 Alarm Silence "silence alarme"	
	cid /		<	10.0	5	1	"Silence alarme"	~
Ready				NUM		124		> .::

Figure 10: DACR . CSV file translation

ES Net Card digital pseudo points' labels translation procedure

For the digital points created for ES Net cards, the labels are stored in DevicesAndPoints.xml file and should be translated for each of the supported languages.

Please follow the steps below:

- 1. Rename DevicesAndPoints.xml file located in C:\Autocall\TrueSite\TSW to a name similar to DevicesAndPoints_english.xml. This will be the original English language copy in case of a rollback to English is necessary.
- 2. Open the DevicesAndPoints.xml file located inside WFW\CSV of the Localization Kit, in a text editor that supports your language character set.
- 3. Locate the first NGNCardPoints tag.
- 4. For each NGNCardPoints record, translate the Description and Prefix fields.
- 5. Copy the modified DevicesAndPoints.xml file to C:\Autocall\TrueSite\TSW.

ES Net Diagnostics Tool translation procedure

This section describes translating the ES Net Diagnostics Service that is part of the TSW installation. TSW with ES Net Support provides a localized service with French and English languages. This means that when you switch TSW locale to the French language, the ES Net Diagnostics tool switches to the French language also.

Note: Local and remote TSW clients may have different localizations.

For ES Net Diagnostics support in other languages, complete the following steps:

- 1. Install the ES Net Diagnostics service.
- 2. Open the Services Control Panel by running the **services.msc** command, then stop the ES Net Diagnostics service.
- 3. Open \Service\programs\web.browser\app\i18n within the ES Net Diagnostics installation folder. The default path for the installation folder is C:\Johnson Controls\ES Net Diagnostics.
- 4. Open the **language.json** file using any text editor. The file contains key-value pairs of the strings that have to be translated into the required language.
- 5. Provide the required values' translations.
- 6. Set the language code. For example, "_locale": "es" for Spanish.
- 7. Save the translated file.
- 8. Restart ES Net Diagnostics in the Services Control Panel.
- 9. Restart TSW. The language automatically updates to the locale you installed.

TSW online help translation procedure

The TSW software contains embedded help files that describe the functionality of the TSW. If you need to translate this TSW help content, complete the following steps:

- 1. Contact Technical Support to obtain the source files for the help content.
- 2. Purchase a license for the XML authoring tool OxygenXML Author, version 23.1 or higher.
- 3. Translate the source content, then use OxygenXML to transform this content to a .chm file. Refer to the OxygenXML documentation at the following web address: https://www.oxygenxml.com/doc/versions/24.0/ug-editor/topics/chm-output-format.html
- 4. Access the directory Autocall\TrueSite\TSW\Client and backup the previous version of Truesite_Workstation_Help.chm by moving the file to another directory, or renaming the file.
- 5. Add the .chm file that you generated from OxygenXML to the same location and name the file Truesite Workstation Help.chm.
- 6. Start the TSW, then select Help Topics from the Help menu, or press F1, to view the new help content.

Testing the translation results

When the Localization process is complete, it is useful to run tests to ensure there are no issues with the translation. The following list summarizes the changes made to the TSW environment after completing the previous steps:

Note:

- 1. For a client-only installation, only steps 1, 6, and 8 below are valid.
- 2. The string <language code> corresponds to the translated language code (for example, fr-CA for French).

1. New TSWUI.Resources.dll and TSWResources.Resources.dll files are created and moved inside C:\Autocall\TrueSite\TSW \Client\<language code>.

2. New TSWResources.Resources.dll is created and moved inside

C:\Autocall\TrueSite\TSW\<language code>.

3. The new language files, such as with extension . FRH for French, are created and copied to the

C:\Autocall\TrueSite\TSW\Language directory.

4. The mapcid.csv file is updated for the DACR jobs.

5. The file sos.INI, located inside C:\Windows is modified to provide support for the new language.

6. The files tswclient.exe.config, tswdesktop.exe.config and TswServerDesktop.exe.config

inside C:\Autocall\TrueSite\TSW\Client are modified to set the new application language.

7. The files tswkrnl.exe.config.TSWConfigurator.exe.config,SSWriter.exe.config,gred.exe.config inside C:\Autocall \TrueSite\TSW, are modified to set the new application language.

8. The new online help file is created and copied to C:\Autocall\TrueSite\TSW\Client, where the installation has been made to the default location

9. The file TSWBackupUtility.exe.config inside C:\Autocall\TrueSite\TSW, is modified to set the new application language.

10. The file TswFileTransfer.exe.config inside C:\Autocall\TrueSite\TSW, is modified to set the new application language.

Testing procedures

Both the TSW Configurator and the TSW Runtime can be validated for successful translation. Follow the steps below to validate:

Note: The TSW Configurator is part of a complete TSW installation only (Server and Client).

Testing the TSW Configurator Translation

Two areas of the Configurator are translated: the Local Point labels and the **Utility Control** button labels. These can be verified as follows:

- 1. Start the TSW Configurator and log in.
- 2. Click **Configure** and then click **Point Config**.
- 3. Click View. Inside the Owner Class section, ensure only the Local checkbox is checked and click OK.
- The resulting points list has translated custom labels.

Utility Control button labels

- 1. Start the TSW Configurator and login.
- 2. Click **Configure** and then click **Utility Screens** and then **New**.
- 3. Enter a custom label and any number of rows.

The resulting view is a grid containing some rows. Each row can be configured to act in a particular way on particular points. For each of these, the corresponding Control and Button labels are translated. See the following steps for an example of what comes next:

- 1. Double-click anywhere in the **Mode** column.
- 2. Select CD (City Disconnect) from the drop-down list and click OK. The row is now marked as CD in the Mode column, with a translated label in the Label column.
- 3. Double-click any of the associated buttons to open a new window containing the button label at the bottom. This label is also translated.

Testing the TSW Runtime Translation

In the case of TSW Runtime, translate the entire user interface. The following are sample TSW Runtime locations and functionalities that you can test to ensure the translation was successful:



Note: For best results, ensure the language for the TSW Client matches the language on the TSW Server machine.

- 1. Verify the login screen.
- 2. Open all menus and verify the text for each of them.
- 3. Open all tabs and verify that the labels and contents have been translated.
- 4. Invoke and verify pop-up dialogs, such as the **Point Status & Control** dialog box.
- 5. Try some other specific operations, such as generating and viewing a report from the **Reports** tab or exporting and viewing a historical log file.
- 6. Open the TSW online help and check various sections to confirm complete translation.

Switching back to English

Refer to the section Setting the language for steps to switch TSW back to English. Apply the following settings:

- 1. Change the **Culture** back to en-US.
- 2. Ensure the **Double-byte** checkbox is unchecked.
- 3. The Enable Merge setting depends on whether the job has default point labels that were previously translated.
- 4. Change the extension back to .ENG.
- 5. To switch the mapcid.csv and the TSW online help files back to English, the original backed- up files must be restored.

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