Sterling Business Center

Localization Guide

Release 9.1

IBM

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Before using this information and the product it supports, read the information in *Notices* on page 18.

Contents

Localizing the IBM Sterling Business Center Application: An Overview

The IBM® Sterling BusinessCenter application can be used by users from different locales to perform tasks such as creating items, viewing the price of items, and so on. In such a scenario, it is important to localize the user interface (UI) components of the application in the language and format that is specific to a user's locale.

Note: It is recommended that along with Sterling Business Center localization, you perform the browser localization as well.

Following are the Sterling Business Center UI components that can be localized:

Category	Components	Applicable/Localizable	For more details, refer to the
Framework Localization		Yes	*Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*
Locale-Specific Formats			
	Date/time	Yes	*Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*
	Decimal	Yes	*Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*
	Group	No	
	E-mail	No	
	Phone number	No	
	Credit card	No	
	Currency	Yes	*Sterling Selling and Fulfillment Foundation: Application Platform Configuration Guide*
Structure of Panel Components		Yes	*Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*
Literals and Data			
	Resource Bundles	Yes	▪ *Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide* and ▪ *Localize Resource Bundles*

Category	Components	Applicable/Localizable	For more details, refer to the
	Factory Setup	Yes	- *Sterling Selling and Fulfillment Foundation: Localization Guide* and - *Localize Factory Setup*
	Master Data - Item related	Yes	*Localizing Certain Descriptions and Values in Item Administration*
UI Branding			
	Localizing Themes / Cascading Style Sheets (CSS)	Yes	*Localizing UI Branding*
	Localizing Icons	Yes	*Localizing UI Branding*

Note: When you localize the `validation.js` for a locale, ensure that the date and time you configure in the `validation.js` is same as the date and time that you have configured as part of the locale configuration.

Localizing UI Branding

As part of localizing the UI branding, you can localize both, themes and icons.

Localizing Themes

The Look and Feel (which include themes, images, and icons) of the UI in the Web UI Framework is CSS file-driven.

You can add, override, or modify CSS entries by providing the locale specific CSS files. The default theme CSS files provided by Sterling Business Center are present in:

```
<INSTALL_DIR>/repository/eardata/sbc/war/sbc/resources/core/css
```

Note: To override the CSS entries irrespective of the dependency on the existing CSS file, add the custom themes. For more information about Adding Custom Themes, refer to the *Sterling Business Center: Customization Guide*.

To provide CSS entries for a locale:

1. You need to place a new file with same name in the following directory:

   ```
   <INSTALL_DIR>/repository/eardata/sbc/war/localization/<locale>/sbc/resources/core/css
   ```

   where <locale> is in the format <language_code>/<country_code>/<variant>. Note that <variant> is optional.

   For example,
   ```
   <INSTALL_DIR>/repository/eardata/sbc/war/localization/en/US/EST/sbc/resources/core/css/sbc.css.
   ```

2. Add CSS entries in the new file.

   For example, to localize the theme of the title in the screen title panel, add the following entry:

   ```
   .sc-screen-title .sbc-titlebar label {
     background:none repeat scroll 0 50% # FFFF66;
     color #7A991A;
     display:block;
     font-family: Comic Sans MS;
     font-size: 15pt;
   }
   ```

3. Rebuild the Enterprise ARchive (EAR) file.

   For more information about rebuilding the EAR, refer to the *Sterling Selling and Fulfillment Foundation: Installation Guide*.

Localizing Icons

Icons are displayed in the user interface using the CSS entries. To localize the icons, you must override the appropriate CSS entries such that they point to the localized version of the icons.

To localize the icons for a locale:

1. You need to place a new file with same name in the following directory:

   ```
   <INSTALL_DIR>/repository/eardata/sbc/war/localization/<locale>/sbc/resource
   s/core/css
   ```

   where <locale> is in the format <language_code>/<country_code>/<variant>. Note that <variant> is optional.

   For example,
   ```
   <INSTALL_DIR>/repository/eardata/sbc/war/localization/en/US/EST/sbc/resourc
   es/core/css/sbc-images.css.
   ```

2. Add CSS entries in the new file.

   For example, to localize the application logo in the application header, add the following entry:

   ```
   .sc-panel-logo {
      background: transparent url(../icons/app_logo.png) no-repeat scroll 0 0;
      height: 50px;
      width: 175px;
   }
   ```

3. Copy the localized icon to the relative path specified in the background property.

   For example,
   ```
   <INSTALL_DIR>/repository/eardata/sbc/war/localization/en/US/EST/sbc/resourc
   es/core/icons/apps_logo.png
   ```

4. Rebuild the Enterprise ARchive (EAR) file.

For more information about rebuilding the EAR, refer to the *Sterling Selling and Fulfillment Foundation: Installation Guide*.

Localize Resource Bundles

The user interface components in the Sterling Business Center application use resource bundles that contain all the static literals displayed throughout the application. After a third-party performs translation in multiple languages, a folder corresponding to each of the locales, and comprising the corresponding bundle files, is generated. For example, if a locale has been created for Japan (JP) in Japanese (ja) language, folders in the format <language_code>/<country_code> (ja\JP) are generated. In addition, the literals that are used in customized screens and have their own resource bundles, are also considered during the localization process.

A resource bundle is a file that comprises resource bundle keys and corresponding values. The values pertaining to these resource bundle keys are also translated as part of localization. Each field in the user interface has a key associated with it. To display the translated literal for a field in the user interface, the localized value of the key associated with the field is fetched from the bundle file.

Use the following files to localize the Sterling Business Center application:

- `bundle-index.properties`

  You can use this file to localize the following:

  - Error and warning messages displayed on the user interface

  - Descriptions pertaining to labels, panels, and headings in the user interface

  - Dynamic data within a literal. For example, the user interface may have to display a literal that informs a user that an input value cannot exceed a certain number of characters, and that the number of characters is dynamic. In this case, if the maximum character length for a description is set at 428 characters, 428 is the value of the parameter. The corresponding bundle entry is defined as "b_MaxCharLengthExceeded":"The value cannot exceed {0} characters".

- `sbcbundle.properties`

  You can use the `sbcbundle.properties` file to localize entities such as menu entries, related tasks, and advanced search criteria. The `sbcbundle.properties` file is located in the `<INSTALL_DIR>/resources/` folder.

The resource bundles can be categorized as server-side bundles and client-side bundles. The server-side bundles pertain to the data that is localized at the application server, and are stored in the `sbcbundle.properties` file. For example, the options displayed in the menu are localized by the server-side bundles. The client-side bundles pertain to the data that is localized at the client-side. The client-side resource bundles are stored in `bundle-index.properties` file. For example, the labels on the user interface are localized by the client-side resource bundles.

Localize the bundle-index.properties File

To localize the `bundle-index.properties` file:

1. Generate the `bundle-index.properties` file. To generate the file, run the following script in `<INSTALL_DIR>/bin` to extract the literals from the bundle javascript files to the `bundle-index.properties` file:

    For Windows:

    ```
    sci_ant.cmd -f jsUtil.xml bundle.index
    -Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
    -Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
    ```

    where `-Dindexdir` is the output directory.

    For Linux/UNIX:

    ```
    ./sci_ant.sh -f jsUtil.xml bundle.index
    -Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
    -Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
    ```

    where `-Dindexdir` is the output directory.

    A new folder, `localization_index`, containing the following file is created in the `-Dindexdir` directory:

    - `bundle-index.properties`
    - `duplicate-keys-map`

        For more information about bundle collector utility, refer to the *Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*.

2. Copy `bundle-index.properties` to the `bundle-index_<language>_<country>.properties` file pertaining to the locale.

    For example, if you want to localize the application for France in French language, copy `bundle-index.properties` to the `bundle-index_fr_FR.properties` file.

3. Edit the `bundle-index_<language>_<country>.properties` file with the translations, and save the file.

    The `bundle-index.properties` file is localized. After this, perform the postlocalization steps on the client side. For more information about the postlocalization steps, refer to the topic, Postlocalization Tasks.

    Note: Ensure that you run the script in the `bundle.index` mode for the Web UI Framework files.

    For more information about the bundle collector utility, refer to the *Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*.

Localize the sbcbundle.properties File

To localize the `sbcbundle.properties` file:

1. Send the `sbcbundle.properties` file located in the `<INSTALL_DIR>/resources` folder for translation.

2. Save the localized `sbcbundle.properties` file as `sbcbundle_<language>_<country>.properties` based on the locale in the `<INSTALL_DIR>/resources` folder. For example, if you localize the application for France in French language, save the localized `sbcbundle.properties` file as `sbcbundle_fr_FR.properties`.

3. Perform the postlocalization tasks on the server side. For more information about the postlocalization tasks, refer to the topic Postlocalization Tasks.

Note: It is recommended that when you localize the literals, you keep the length of the literals short in order to avoid them getting truncated.

Localizing New bundle js Entries

This section describes the steps required to update your localized `bundle js` files with the new entries that have been added in the English `bundle js` files after localization of the application is completed.

To update the `bundle js` files after installing the changes in the English `bundle js` files:

1. Run the `jsUtil` tool to generate a fresh `bundle-index.properties` file to obtain the newly added English bundle entries.

   Navigate to the `<INSTALL_DIR>/bin` folder and run the following command:

   For Windows:
   ```
   sci_ant.cmd -f jsUtil.xml bundle.index
   -Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
   -Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
   ```
   For Linux/UNIX:
   ```
   ./sci_ant.sh -f jsUtil.xml bundle.index
   -Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
   -Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
   ```
   The `bundle-index.properties` file is generated in the `localization_index` directory.

2. Compare the `bundle-index.properties` file generated in Step 1, and your localized `bundle-index_<language>_<country>.properties` file to determine the newly added entries. Translate the newly added entries and add them in your localized `bundle-index_<language>_<country>.properties` file.

3. Run the `jsUtil` tool in map mode to regenerate the localized `bundle js` files from the updated `bundle-index_<language>_<country>.properties` file.

Navigate to the `<INSTALL_DIR>/bin` folder and run the following command:

For Windows:

```
sci_ant.cmd -f jsUtil.xml bundle.map
-Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
-Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
-Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle-index_<language>_<country>.properties -Dwebcontentdepth=0
```

For Linux/UNIX:

```
./sci_ant.sh -f jsUtil.xml bundle.map
-Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
-Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
-Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle-index_<language>_<country>.properties -Dwebcontentdepth=0
```

For example, if you have localized to the French locale and the localization directory is `<INSTALL_DIR>/repository/eardata/sbc/localization_index`, and the localized `bundle-index.properties` file is `bundle-index_fr_FR.properties`, you must run the following command:

For Windows:

```
sci_ant.cmd -f jsUtil.xml bundle.map
-Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
-Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
-Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle
-index_fr_FR.properties -Dwebcontentdepth=0
```

For Linux/UNIX:

```
./sci_ant.sh -f jsUtil.xml bundle.map
-Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
-Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
-Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle
-index_fr_FR.properties -Dwebcontentdepth=0
```

4.Regenerate the minified localized `bundle js` files.

Navigate to the `<INSTALL_DIR>/bin` folder and run the following command:

For Windows:

```
sci_ant.cmd -f jsUtil.xml minify-js
-DsrcDir=<INSTALL_DIR>/repository/eardata/sbc/war
-DdestDir=<INSTALL_DIR>/repository/eardata/sbc/war -Dminify=true
-DcreateIndividualFile=false
-DjsbDir=<INSTALL_DIR>/repository/eardata/sbc/war/builder/sbc
```

For Linux/UNIX:

```
./sci_ant.sh -f jsUtil.xml minify-js
-DsrcDir=<INSTALL_DIR>/repository/eardata/sbc/war
-DdestDir=<INSTALL_DIR>/repository/eardata/sbc/war -Dminify=true
-DcreateIndividualFile=false
-DjsbDir=<INSTALL_DIR>/repository/eardata/sbc/war/builder/sbc
```

5. Rebuild the EAR and re-deploy the application. For more information about rebuilding the EAR, refer to the *Sterling Selling and Fulfillment Foundation: Installation Guide*.

For more information about generating minified JavaScript source files, refer to *Sterling Business Center: Customization Guide*.

Localize Factory Setup

Besides storing your transactional data, the database also stores configuration data, such as error codes and item descriptions of various attributes. This means that the database may have to store values in a language-specific format. If these database literals are not localized, screen literals are displayed inconsistently, with some being displayed in the localized language, and others being displayed in English.

For more information about localizing factory setup, refer to the *Sterling Selling and Fulfillment Foundation: Localization Guide*.

Localizing Certain Descriptions and Values in Item Administration

Sterling Business Center can be used by administrator users of an organization to localize certain attributes of item administration. A user may have to create translated descriptions for entities such as items so that item descriptions can appear in different languages for users from different locales. In the case of item descriptions, the translated descriptions are stored in the YFS_ITEM_LOCALE table. In the Sterling Business Center user interface (UI), only if more than one locale is configured in the system, fields that can be localized have the localization icon next to them. One of the Related Tasks, **Localize**, can also be clicked to localize the Sterling Business Center fields.

For example, Short Description: * image displays the Short Description field with the localization icon next to it. When a user clicks the icon, the localization dialog box containing the corresponding base values is displayed. A user can enter the localized values for each locale defined in the system.

The fields that are listed below the screen names can be localized:

- Category Management screen
    - Long Description
    - Short Description
- Classification Management screen
    - Long Description
    - Short Description
- Item and Service Primary Information screen
    - Long Description
    - Short Description
    - Extended Description
- Assets screen for item, service, catalog, category classification domain, classification value, attribute domain, attribute group, attribute, and attribute value
    - Label
    - Description
    - Content Location
    - Content ID
- Attribute Group screen
    - Long Description
    - Short Description
- Attribute Domain Details panel
    - Long Description
    - Short Description

- Attribute Details screen
  - Long Description
  - Short Description
- Text Attribute Properties screen
  - Short Description
- Derived Attribute Ranges screen
  - Description

Note: If more than one locale is configured, is displayed adjacent to all the localizable fields and the Localize related task is displayed in the **Related Tasks** panel. The localizable fields such as Short Description, Long Description, and so on, are always displayed in the base locale irrespective of the user locale. For example, if Sterling Business Center is localized to French with the base locale as English, and a French user logs in to Sterling Business Center, all the UI literals except the localizable fields are displayed in French. The localizable fields are displayed in English. The user can click either or **Localize** to localize a field that is displayed in the base locale.

Postlocalization Tasks

The localized resource bundles are not automatically used by the Sterling Business Center application. To ensure that the localized bundles are used by the Sterling Business Center application, you must re-create the Sterling Selling and Fulfillment Foundation EAR package.

The sections that follow describe the postlocalization activities on the server side and client side.

Postlocalization on the Server Side

After you have localized the bundles, perform the following steps on the server side:

1. Navigate to the `<INSTALL_DIR>/bin` folder.

2. To create the resource jar, run the following command:

   For Windows:
   ```
   deployer.cmd -t resourcejar
   ```
   For Linux/UNIX:
   ```
   deployer.sh -t resourcejar
   ```

3. Rebuild the Enterprise ARchive (EAR) file.

   For more information about rebuilding the EAR, refer to the *Sterling Selling and Fulfillment Foundation: Installation Guide.*

Postlocalization on the Client Side

After you have localized the bundles, perform the following steps on the client side:

1. Navigate to the `<INSTALL_DIR>/bin` folder.

2. To generate localized JavaScript source files from the localized bundle-index.properties file, run the following command:

   For Windows:
   ```
   sci_ant.cmd -f jsUtil.xml bundle.map
   -Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
   -Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
   -Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle-
   index_<language>_<country>.properties -Dwebcontentdepth=0
   ```
   For Linux/UNIX:
   ```
   ./sci_ant.sh -f jsUtil.xml bundle.map
   -Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
   -Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
   -Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle-
   index_<language>_<country>.properties -Dwebcontentdepth=0
   ```

   For example, if you have localized to the French locale and the localization directory is `<INSTALL_DIR>/repository/eardata/sbc/localization_index`, and the localized

`bundle-index.properties` file is `bundle-index_fr_FR.properties`, you must run the following command:

For Windows:

```
sci_ant.cmd -f jsUtil.xml bundle.map
-Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
-Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
-Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle-
index_fr_FR.properties -Dwebcontentdepth=0
```

For Linux/UNIX:

```
./sci_ant.sh -f jsUtil.xml bundle.map
-Dsourcedir=<INSTALL_DIR>/repository/eardata/sbc/war
-Dindexdir=<INSTALL_DIR>/repository/eardata/sbc/localization_index
-Dindexfile=<INSTALL_DIR>/repository/eardata/sbc/localization_index/bundle-
index_fr_FR.properties -Dwebcontentdepth=0
```

3. To generate minified JavaScript source files from the localized bundle-index.properties file, run the following command:

For Windows:

```
sci_ant.cmd -f jsUtil.xml minify-js
-DsrcDir=<INSTALL_DIR>/repository/eardata/sbc/war
-DdestDir=<INSTALL_DIR>/repository/eardata/sbc/war -Dminify=true
-DcreateIndividualFile=false
-DjsbDir=<INSTALL_DIR>/repository/eardata/sbc/war/builder/sbc
```

For Linux/UNIX:

```
./sci_ant.sh -f jsUtil.xml minify-js
-DsrcDir=<INSTALL_DIR>/repository/eardata/sbc/war
-DdestDir=<INSTALL_DIR>/repository/eardata/sbc/war -Dminify=true
-DcreateIndividualFile=false
-DjsbDir=<INSTALL_DIR>/repository/eardata/sbc/war/builder/sbc
```

4. Rebuild the Enterprise ARchive (EAR) file. For more information about rebuilding the EAR, refer to the *Sterling Selling and Fulfillment Foundation: Installation Guide.*

For more information about generating minified JavaScript source files, refer to *Sterling Business Center: Customization Guide*.

Notes:

▪ Ensure that you run the script in the `bundle.map` and `minify-js` modes for the Web UI Framework files. For more information about the bundle collector utility, refer to the *Sterling Selling and Fulfillment Foundation: Localizing the Web UI Framework Guide*.

▪ After localizing the Sterling Business Center application, you may want to verify the application. However, because resource bundles are cached in a Web browser, it is recommended that you clear the Web cache before verifying the application.

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