Note: **For internal use only**

Introduction

All of the code to generate Browserless Oracle installers is located here: Browserless Oracle on Sharepoint

Folder Contents

Note: Folders in red below are working directories and should **not** be accessed/maintained when creating builds.

- **Builds**

  This directory contains a temporary folder for each client/version built and is generated during the browserless oracle build for each client

- **Config**

  This directory contains batch files which are used for configuring each individual client. See the Creating an installer package for details.

- **Documents**

  Documentation relating to the process

- **Installers**

  This directory contains the built executable installers for release to the client. there will be a folder for each client/version built

- **Java**

  This directory contains the java versions which will be build into the installer packages

- **Resource**

  This directory contains the scripts, sources and configuration files used in the build

- **Setup**

  This directory contains the software which must be installed on the users PC prior to running the installer creation process.
  Note: These are for CREATING installer packages, and are NOT required on the final users machines.

Creating an Installer package

- Pre-Requisites

  InnoSetup and Launch4J must be installed before an installer can be created. Run the installers from the Setup directory and accept all defaults during the process.

- Creation process

The batch script to create an installer is in the main Browserless Oracle directory:

```
createNewBuild.bat
```

Before this is executed, a Config script is required. These are stored in the Config directory.

The scripts should be named by client. To create a new script for a new client, copy an existing one, rename and then amend it.

A client script should look like this:

```
set WMSTMS=
set BUILD=
set PREFIX=
set PROD=
```

```
set TEST=
set QA=
set JAVA_VER=
REM **** USE _GENERATE GUI.bat to generate a unique GUID for each client - ONLY DO THIS ONCE PER CLIENT!!!
set GUID=
```

- WMSTMS - Should be either TMS or WMS dependent on the system
- BUILD - the build version of the installer e.g. 1.0
- PREFIX - the clients "short" code (usually the first part of the database name before tst or prd) e.g. psdt, lfst, schw etc.
- PROD - the Production URL for the client
- TEST - the Production URL for the client
- QA - the Production URL for the client. Leave blank (but do not remove the line) if no QA/UAT system exists.
- GUID - a unique identifier for the client which is used to identify the install in the registry.

If this is a new client script, run _**GENERATE GUI.bat** to generate a new GUID:

```
Generated GUI:
bcc4b78c-11c7-4bf0-840d-275b5bc729be
This has been pasted into the clipboard - Paste this into the "<client>".bat file on the line GUID=xxx
Press any key to continue . . .
```

Paste this value onto the GUID line

Note: Once generated, these GUID values should not be changed for the client

Once the client script has been created, the **createNewBuild.bat** can be executed.

This will prompt for a client ID, which should match the name of the client script.

Once executed, the process will generate all of the files needed for the installer, sign them, and package them into an exe.

Example:

```
Client: Polar Speed
Polar Speed Browserless Oracle Build 15/02/2024 11:35:45.14
Create calidus_info.txt
launch4j
signtool - EXE
Inno Setup USER
Inno Setup ADMIN
signtool - Installer
Press any key to continue . . .
```

The above run would create 2 installers (User/Admin) in the Installers directory within Aptean Calidus-TMS or WMS and then a client/version directory:

```
Aptean Calidus-TMS-Polar Speed_ADMIN.exe
Aptean Calidus-TMS-Polar Speed_USER.exe
```

These are the signed executable installers which should be issued to the client. **Note: These installers should be tested on your own PC before issue to the client**

Additional Technical Details

- **Java**

New Java JRE packages should be downloaded from the Eclipse Temurin site and placed in the Java directory as jdk-xxx
Note: This may change if we start using Oracle Java packages.

Once this is done, you should edit **createJavaJRE.bat** and change the set JAVA=xxx to match the folder above.

Run **createJavaJRE.bat** to create a java-xxx directory which has a cut down version of Java with only the required files to run browserless oracle.

The java-xxx should then be added to the JAVA_VER parameter inside the required Config script for the client.

- **frmsal**

The frmsal jar files are located in Resource\frmsal

The build process will try to locate a frmsal file which matches the exe being produced e.g. psdttst.frmsal.jar. If it finds a specific frmsal for the build it will use this, and if not, it will use the generic frmsal.jar

- **Signing Certificate**

The certificate is located in Resource\Aptean. If updated, the following lines will need amending in Resouce\core.bat:

```
set CERT=..\..\Resource\Aptean\Aptean_Inc.pfx
set CERTPASS=A23cDez37Fx
set CEREX=29/03/2025
```

- **Additional Info File**

The file \Resource\calidus_info_generic.txt will be pulled into the calidus_info.txt file built into the installer exe.

Any **non-client** specific info which is required can be added to this file.

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1 Creating Release Notes

This guide is an overview to creating release notes for all systems of all types. There are also detailed guides that are referenced below.

1.1 Overview

On the main page of the Calidus Hub, if you are logged in, you will see a new page option labelled as Create New Pages from Templates:

This page is structured to aid getting into the different document/page generation bits, with some copyable examples.

For example:

- There is a TOC, so you can go straight to the type of document you want to create.
- The TOC is categorised, so you can do
    - Pages/Documents - plain pages
    - Patches/Release - Notes
    - Specific - Document Types
    - Category - Utility Pages

For the purposes of Release Notes, we will focus on section 2 - Patches/Release Notes.

1.2 Creating Release Notes

This section has subsections for:

- WMS or TMS Patch
- WMS or TMS Emergency Release
- WCS Patch
- EPOD Device/APK Release Note
- EPOD Admin/Server Release Note
- PORTAL Release Note
- General Release Note

Each sub-section shows examples of the naming conventions is use, which makes it much easier to copy and paste the titles, which are important, as they are shown in the PDF document produced, and they form the basis of browsing through Assist.

These are fairly easy and self-explanatory to use. Just fill in what you need, which is primarily the version, and then the devops numbers and the description of the fault and fix. There are other sections, and they may need more typing, but again, just point and click.

The pages created should save to the correct categories, to allow them to be easily browsed.

1.2.1 Using the Templates

In general, follow these steps:

- Enter your title
- Click the button.
- If necessary, click the **Create** button on the top-right to switch to Visual Editing.
- Just type.

There are specific guides to the different types here:

- Creating a WCS Patch
- Creating an ER
- Creating a General Release Note

1.2.2 On Browsing through categories

From the main page:

There are sections for each Product.

Each link here includes the appropriate product release note categories in the results, so you can drill down.

There are sections for:

- Category:Documents by Type - a list of all document types. Under each of these they are typically sub-categorised
  - Configuration - subcat by customer
  - Emergency Releases - subcat by product
  - Estimates - subcat by customer
  - Functional Specifications - subcat by customer
  - General
  - Patches - subcat by product
  - User Guides - subcat by customer
  - Release Notes - subcat by product
  - Requirements (Solution Designs) - subcat by customer
  - Small Change Requests - subcat by customer
  - Support Documents
  - Technical Guides
- Category:Documents by Client - a list of all customers. Typically sub-categorised by document type.
- Category:Documents by Product - a list of all products. Typically sub-categorised by document type.
- Category:Glossaries - Product glossaries. Copy and paste, or include in your Assist pages with {{GlossaryName}}
- Category:Incomplete - a list of all incomplete pages, so we can keep things up to date.

2 Creating XSD Documentation

The purpose of this document is to show how XSDs are properly documented and the results stored in shared areas and source control for all to use. These files are required by customers to aid in developing interfaces into CTMS and as such are reuired parts of the development process.

2.1 Requirements

- An XSD to document, with valid annotation tags embedded within it.
- Notepad++ with XML Tools plugin installed.
- Chrome (or other HTML to PDF conversion tool).
- Access to the shared drives.
- Access to the XSL transformation sheet xs3p.xsl, in the shared drives.

2.2 Process

Once the XSD has been modified, ensure that it is in source code control.

Save the XSD to the shared drive, for exmple for TripOrder XSD, \\DGA1FS01OBS\Projects3\Product\OBS XML\C-TMS tripOrder\Schema Source

- Using Notepad++, open the XSD you have edited.
- Menu, *Plugins/XML Tools/XSL Transformation*.
- Select the XSL transformation sheet xs3p.xsl.
- Click **Transform**.
- On the newly created file, replace the titles with the version. For example, for TripOrderXML, replace all "Trip/Order XML" with "Trip/Order XML vx.yy". There should be 3.
- Click **Save**.
- Change type to HTML.
- Name as "{InterfaceName} vx.yy XML Schema Documentation.html", for example "TripOrder vx.yy XML Schema Documentation.html".
- Open the HTML file in Chrome (directly, or double click the created HTML file, or from Notepad++, Menu, *Run/Open in Chrome*).
- Right-click, *Print*
- Change Destination to *Save as PDF*
- Click **Save**
- Name as "{InterfaceName} vx.yy XML Schema Documentation.pdf", for example "TripOrder vx.yy XML Schema Documentation.pdf".
- Copy the following files to the shared drive:
    - {InterfaceName} vx.yy XML Schema Documentation.pdf
    - {InterfaceName} vx.yy XML Schema Documentation.html