# Purpose

This document describes the steps required to create a Windows-ready installable .exe containing the node-webkit based Shopswell desktop application.

# Assemble the Prerequisites

For each individual prerequisite, make note of the directory into which the item is placed.

1. Checkout the installer source from Github:

https://github.com/PlaySwell/swell\_desktop\_installer

2. Checkout the desktop app source from Github:

https://github.com/PlaySwell/swell\_desktop

3. Install Inno version 5:

http://www.jrsoftware.org/download.php/is.exe?site=1

4. Install node.js

https://nodejs.org/dist/v4.2.1/win-x64/node.exe

5. Install node-webkit (nw.js):

Type `npm install nw` on the command line, after after node.js is correctly installed

6. Install the webit packages required by the desktop app:

`npm install node-notifier'

`npm install node-schedule'

`npm install path'

`npm install request'

`npm install wake-event`

# The Inno Script

The installer is built using a script written specifically for use with the Inno install builder. The actual script itself is in the "*setup.iss*" file, which is in the local copy of the "*swell\_desktop\_installer*". This file can be edited with any ordinary text editor.

# Creating an installable .exe from the setup.iss script

Inno supports a command line compiler, which will use the *setup.iss* script file to build the final installable executable. The Inno command line compiler is named "*iscc.exe*", and will be stored in the folder chosen when installing Inno 5 while assembling the prerequisites.

The *setup.iss* script files supports 3 parameters, each of which identifies the location of key components indentified as prerequisites above.

The generic form of the command line with those 3 parameters is:

iscc NwjsSource ModuleSource SwellSource setup.iss

Where:

\* iscc is the Inno command line compiler, installed in step 3 above.

\* setup.iss is the Inno installer script, checked out in step 1 above.

\* NwjsSource is the directory which contains *nw.exe* installed in step 5 above.

\* ModuleSource is the directory with the 'node\_modules' packages in step 6 above.

\* SwellSource is the directory with the desktop app checked out in step 2 above.

# Passing actual parameters to iscc

In order to pass parameters to the Inno command line compiler, the /d switch must be used.

Thus the actual command line for *iscc* command is more like:

<path to iscc.exe>\iscc "/dNwjsSource=<path to nw.exe>" "/dModuleSource=<path to .\node\_modules>" "/dSwellSource=<path to local swell\_desktop repo>" setup.iss

Note that the quotes enclosing each parameter are required.

Example command line with actual paths:

"C:\Program Files (x86)\Inno Setup 5\iscc" "/dNwjsSource=c:\nwjs" "/dModuleSource=c:\nwjs\node\_modules" "/dSwellSource=c:\swell\_desktop" setup.iss

# Default parameters

If one or more of the 3 parameters is not supplied on the command line, the following directories are the hard coded defaults in the *setup.iss* file:

NwjsSource c:\nwjs

ModuleSource c:\nwjs\node\_modules

SwellSource c:\swell\_desktop

# Output from issc.exe

If the script executes successfully, the file "*shopswell.exe*" will be created as the executable installer. If there are errors, they will appear in the console window.

# Running the shopswell.exe installer

To run the installer in its normal 'verbose' mode (all dialogs are shown), type:

shopswell

The verbose install will allow the user to choose where the Shopswell desktop application is installed, whether to add an icon to the desktop, and whether to run the application when the installation completes.

To run the installer in silent mode (no dialogs are shown), type:

shopswell /SP- /SILENT /VERYSILENT /NORESTART /SUPPRESSMSGBOXES

The silent install does not allow the user to choose where the application is installed - it will be installed into C:\Program Files (x86)\Shopswell\Shopswell App

The silent install automatically adds a desktop icon and will also run the application without asking when the install completes.

# Name of the Shopswell desktop app executable

When the Shopswell desktop app is installed, the node-webkit "*nw.exe*" file is copied to "*swell.exe*" and it is the *swell.exe* file that is executed. This was done so that the running Shopswell app had a unique .exe name. It is possible for there to be other node-webkit applications running on the user's machine, and we want to distinguish the Shopswell application from those other node-webkit applications, specifically being able to stop the Shopswell app when it is uninstalled.

# Unique registry key set by the Inno installer

When the installer completes correctly the following registry key will be set:

HKEY\_LOCAL\_MACHINE

\SOFTWARE

\Wow6432Node

\Shopswell

\Shopswell App

\Settings:

Key: UniqueShopswellKey Value: 911176E3-243D-49D5-9CF0-34B1FB01CBE3

# Uninstalling the Shopswell app

The Inno installer will automatically install an appropriate uninstaller, which can be accessed via the standard Windows Control Panel "Programs and Features" function.

If the Shopswell app is uninstalled while swell.exe is running, the uninstaller will kill the swell.exe task first and then uninstall all of its components. Killing the task first ensures a 'clean' uninstall, and no residual files should remain on the user's machine. Also the unique registry key noted above will also be removed. If this key does not exist, the uninstall was successful.