



# **Trimble Access: OSTN15 Transformation Update Procedure**

This guide is for use with Trimble Access and is valid for Trimble Access controllers under Access software warranty, for a controller with expired warranty please follow the steps in guide "#38 Trimble Access 2016-03 OSTN15"

Nb. If the Access Controller is already on v2016-10 or newer, then it will already contain OSTN15 in the coordinate system database, however the two files outlined in section 1 below will still need to be copied across to it. It is also worthwhile creating an OSTN15 Template as outlined in section 3.

# **Prerequisites:**

- Access Controller with current software warranty (Nb. TSC3 used in this guide)
- USB cable to connect to controller or USB stick
- OSTN15 files, these are available via the KOREC web site or from KOREC Support support@korecgroup.com

ostn15.sgf osgm15.ggf

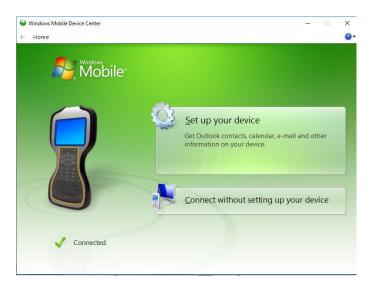
# 1) Copying OSTN15 & OSGM15 files onto a controller

There are two options available to copy the required OSTN15 files onto the controller.

- a) The first is to connect the PC to the controller via a USB cable
- b) The second is to copy the files on to a USB stick and then onto the controller

#### a) Connection via USB Cable

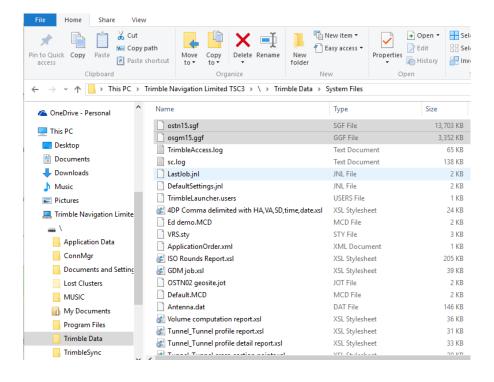
- Connect the TSC3 to a PC via the USB cable provided
- Turn on the TSC3
- Windows Mobile Device Centre should start up and connect to your device
- Select Connect without setting up your device



Hover over File Management and select Browse the contents of your device



- Browse to Trimble Data/System files
- Copy the OSTN15 coordinate shift files to this location, you will need to copy both:
   ostn15.sgf & osgm15.ggf



Continue to Step 2

#### b) Copying files via USB stick

- Copy both OSTN15 coordinate system files onto the USB stick: ostn15.sgf osgm15.ggf
- Insert the USB stick into the USB port at the base of the TSC3 controller
- Select the Files button



- Windows Mobile File Explorer will start.
- At the top of the screen select the arrow next to Trimble Data and Hard Disk will appear
  on the drop down if the USB stick has been correctly recognised. (If not try inserting the
  USB again)



- Select Hard Disk
- Highlight the OSTN15 and OSGM15 files, keep the shift button pressed to select both files
- Press and hold the stylus on the screen



## Select Copy



- Tap the Hard Disk folder name at the top of the screen and select My Device from the folder list
- Navigate to Trimble Data then System Files



- Select a white area of the screen to ensure that no files are currently highlighted. Then
  press and hold the stylus on the screen and select Paste
- If easier, select Menu > Edit > Paste

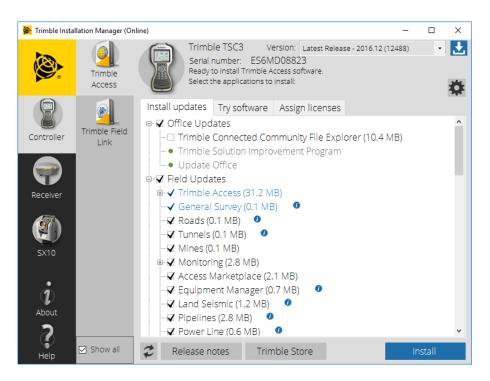


Close the window by hitting the X in the bottom right hand corner

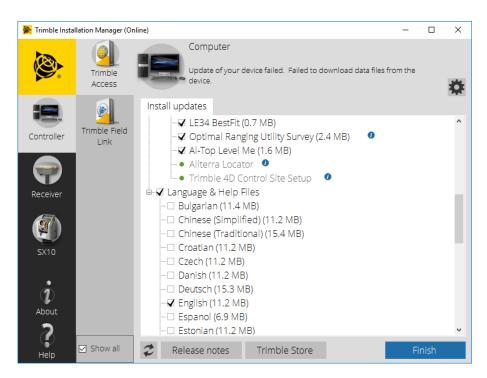
## 2) Updating Trimble Access to v2016-12 or Newer

Trimble Access is updated by running Trimble Installation Manager (TIM), which can be downloaded from the KOREC or Trimble Web Site. It is run on a PC **connected** to the Access controller via USB cable, or if Access is running on a tablet then TIM is run on the tablet itself.

Install and launch Trimble Installation Manager



 Press Install to update Access to the most recent version permissible given the current warranty expiry date



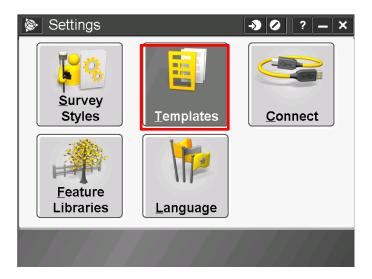


# 3) Creating an OSTN15 Template

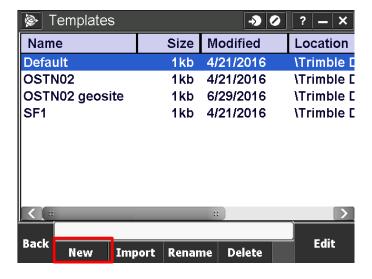
Select the Settings button



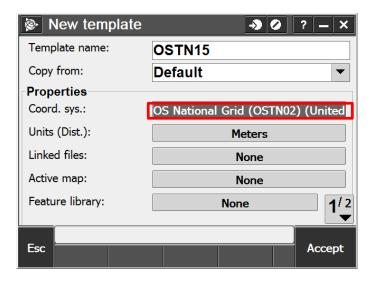
Select Templates



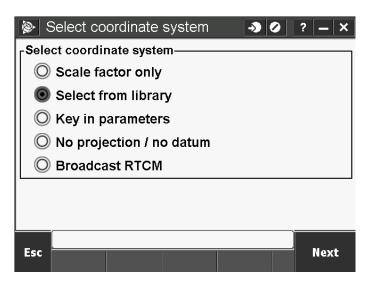
Select New at the bottom of the screen



- Enter a new template name: OSTN15
- Nb. If you have templates already set up on the controller you can choose to copy these settings from a previous OSTN02 Template, or just copy the default settings
- Select the Coordinate system



Choose to Select from library

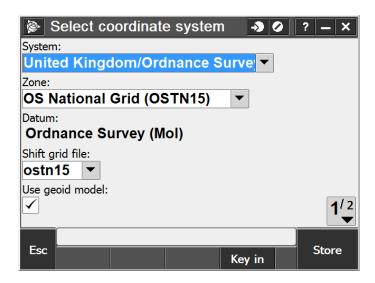


- Tap Next
- Make the following selections:

System: United Kingdom/Ordnance Survey

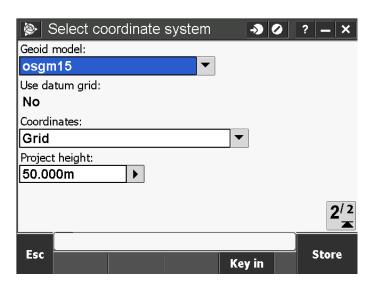
Zone: OS National Grid (OSTN15)

Shift grid file: **ostn15 Tick** Use geoid model



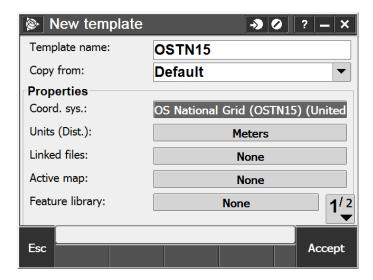
Select Page 2, by tapping the button in the bottom right of the screen to bring up 2/2

Geoid model: osgm15 Coordinates: Grid Project height: 50m

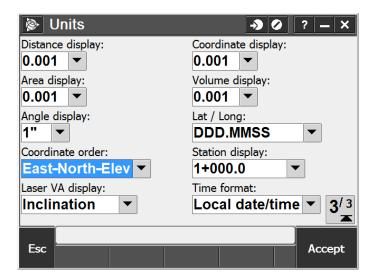


Tap Store

Tap on the Units (Dist.) button displaying Meters.



 On page 3/3 of the Units settings screens, check the coordinate order is set to East-North-Elev as shown below.



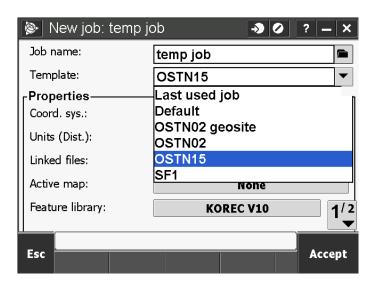
- Tap Accept
- At this stage you can link any additional files you may wish to the template, e.g. a Feature library
- Tap Accept to complete the template creation process

## 4) Using OSTN15

You have now correctly set up the OSTN15 transformation files to use with your GNSS surveys.

When starting a new job, it is always possible to select a template to select the coordinate system and other pre-defined values.

In the Template list you will see the new OSTN15 template. Select this template and continue with your normal survey procedure.



When starting a VRSNow Survey using the new OSTN15 files, you **must** select one of the new OSTN15 Mountpoints when prompted.

```
15_TVN_RTCM_31

15_TVN_RTCM_23

15_TVN_RTCM_31_GPS_Only

15_TVN_CMR_PLUS

15_TVN_CMR_X

15_TVN_DGPS
```

If set to use RTCM format data then it is advised to select 15\_TVN\_RTCM\_31 and if using CMR then either of the CMR streams will be OK. Use 15\_TVN\_CMR\_X with the Trimble R10.

If a Mountpoint name list isn't displayed during the start of a VRSNow survey, then the name has been pre-set in the GNSS Contacts. Use document - #41 Trimble Access OSTN15 Mountpoint Change – to change the pre-set name.