

# K-Console and K-Mobile Getting Started Guide

Issue: 1 Rev A

Issue date: 18 June 2017

# K-Console and K-Mobile

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# K-Console and K-Mobile: Standard System Installation and Configuration

## Full Overview of System Components and Concepts

This user guide covers the installation, setup and usage of K-Console on a desktop and K-Mobile on an android device. For different configurations refer to the K-MATIC Technical Support Notes/ How to guides.

## K-Console System Installation

K-Console System Requirements

Install K-Console on a Desktop

## K-Mobile System Installation

K-Mobile System Requirements:

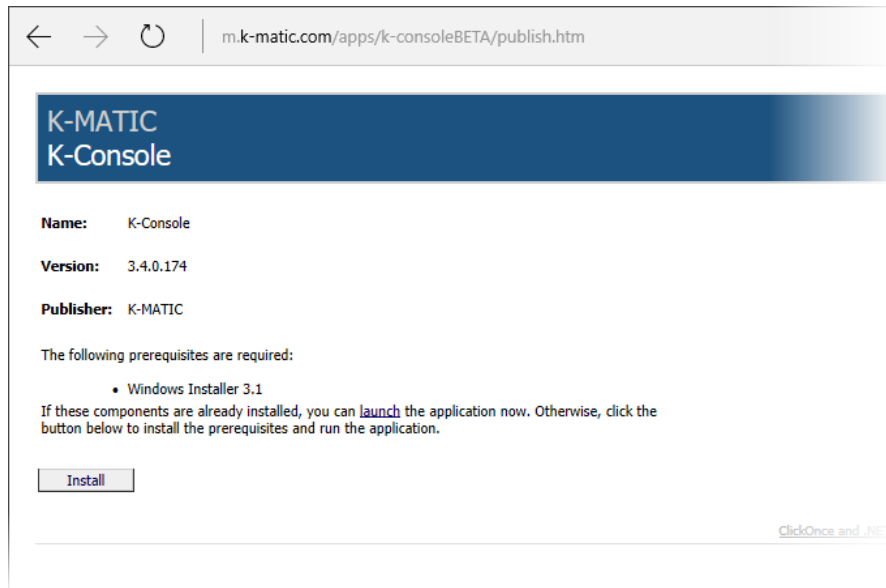
Install K-Mobile on an Android Device

# K-Console System Installation

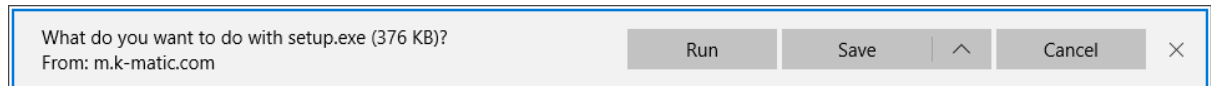
## K-Console System Requirements

### Install K-Console on a Desktop

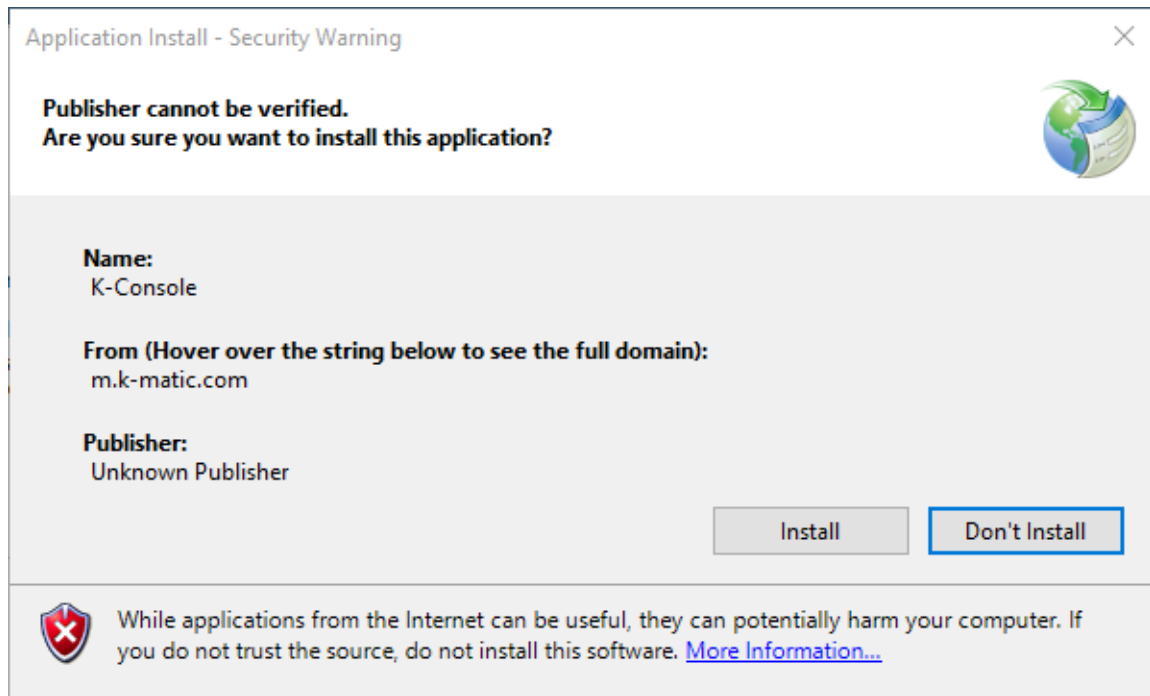
1. From the download link click **Publish.htm**.
2. Click **Install**.



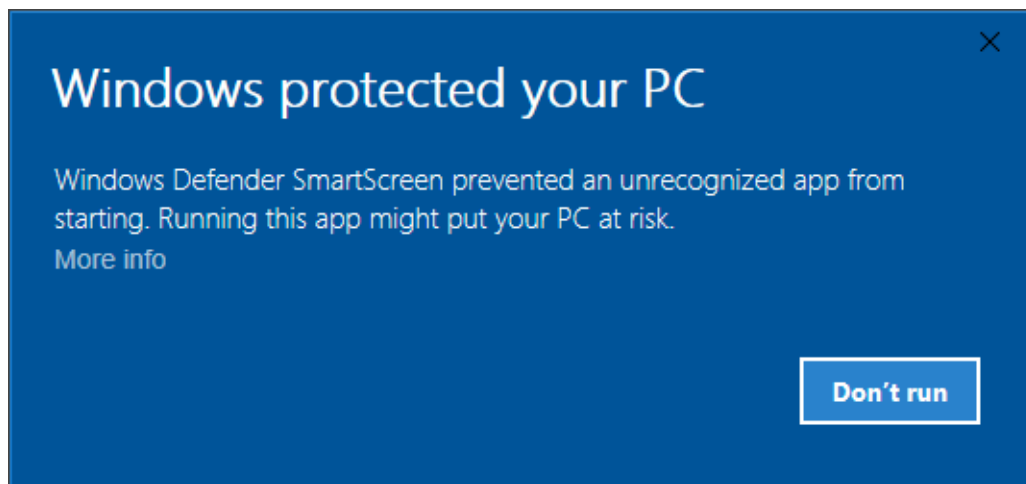
3. From the pop-up message click **Run**.



4. Click **Install**.



5. If this message appears, click **More Info** and **Run anyway**.



6. Select **Accept Terms and Conditions** and click **Continue**. The K-Console desktop console should now be open follow the K-Console System Configuration section to set it up.

## K-Console System Configuration

***K-Console must be installed to complete this section.***

This configuration section describes the minimum required to get K-Console configured to manually synchronise via K-Cloud with K-Mobile. There are four stages:

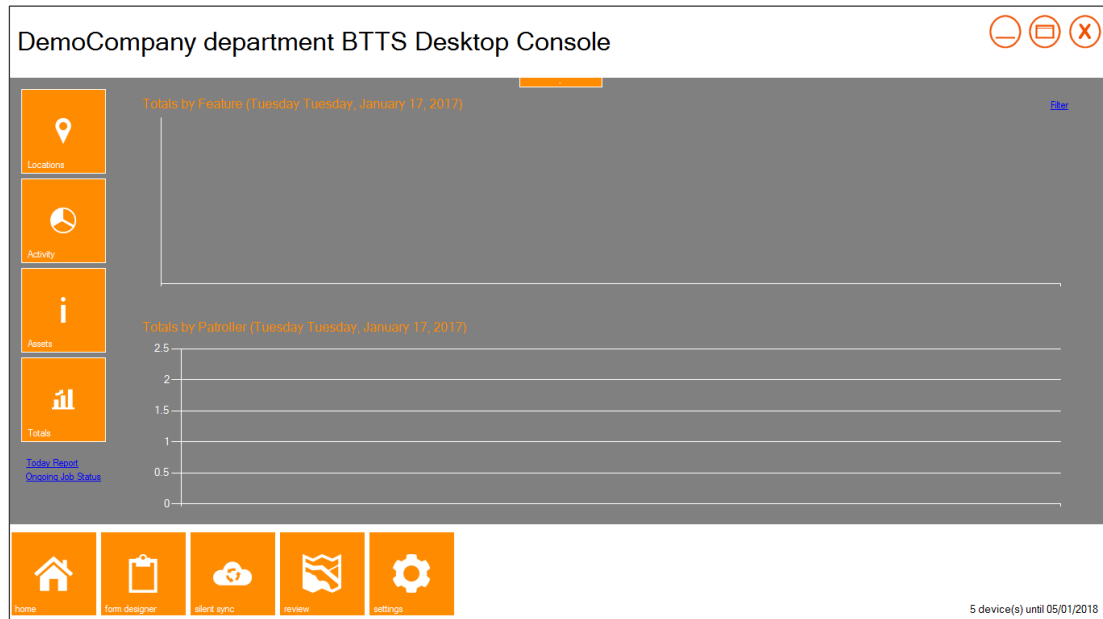
1. Configure General Settings and Check Folder Management.
2. Ensure Access to the K-Cloud Server.
3. Ensure the Microsoft Access Driver is in Place.
4. Set up the Default Background Maps.

***Note: The setup and usage of your own data collection forms is not essential for this initial configuration and test. Form setup is available here if required.***



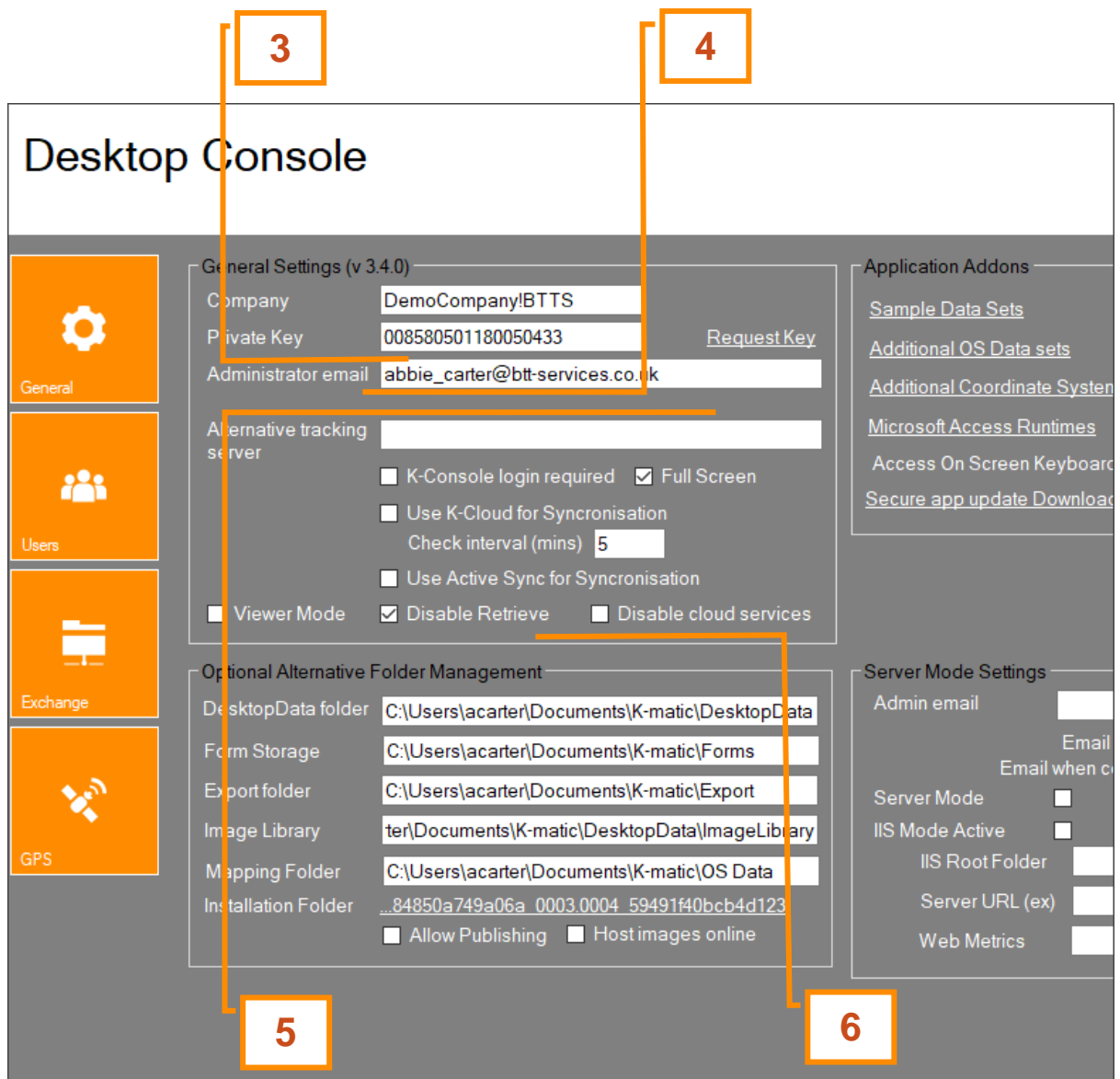
## Configure General Settings and Check Folder Management

### 1. Open K-Console.



### 2. Click **Settings**.

3. Enter the *Company Name* and *Private Key*. As provided via e-mail from KOREC, if no e-mail has been received ensure the *administrators e-mail* address is entered and select **Request Key** to obtain your company name and key, it may be a demonstration key lasting X days.
4. Enter in the *Administrator e-mail* address.
5. To enable *K-Console to manually synchronise via K-Cloud with K-Mobile* deselect the remainder of the General Settings as displayed:
  - To enable *K-Console to manual synchronisation only via Microsoft ActiveSync* select **Use Active Sync for Synchronisation** and if you do not wish to use K-Cloud at all; select **Disable Cloud Services**.
  - To enable *K-Console to automatically retrieve from K-Cloud every X minutes*: select **Use K-Cloud for Synchronisation** and enter in a *Check Interval*.
  - To *automatically synchronise K-Mobile via K-Cloud every X minutes*: on the Mobile device set the Office Sync Method to **via Cloud-Change only**.
  - To *remove any option for manual (either via Microsoft ActiveSync or k-Cloud)* select **Disable Retrieve**. For example to ensure duplicate data is not entered into an enterprise databases.



- Review the Optional Alternative Folder Management paths, these five paths should ideally be in the *My Documents* folder. Using **Windows File Explorer** confirm these folders actually exist on the computer. If they do not exist create them and enter their paths correctly here. If the OS Data folder is already specified as being elsewhere, copy it from there and paste it under your *Documents\K-Matic* folder.

Name	Date modified	Type
app	03-Aug-16 4:26 PM	File folder
Desktopdata	07-Mar-17 2:49 PM	File folder
Export	07-Mar-17 2:42 PM	File folder
Forms	07-Mar-17 2:49 PM	File folder
Image	02-Feb-17 10:49 AM	File folder
Mapping	24-Jan-17 1:43 PM	File folder
OS Data Folder	01-Dec-16 11:32 AM	File folder

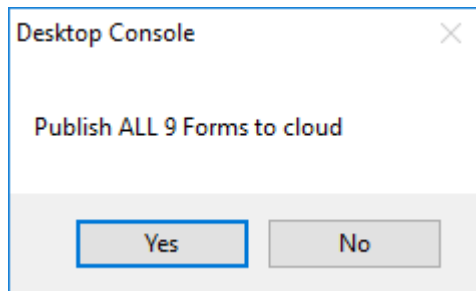
7. Click **Save Settings**. For an explanation of all general settings refer to Appendix X.
8. **Close** and re-**open** K-Console.

## Ensuring Access to the K-Cloud Server

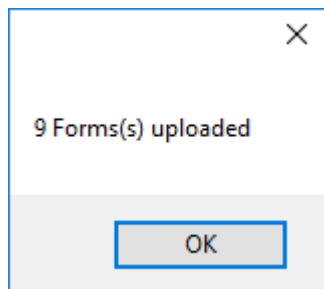
*Internet access is required for this section.*

To ensure firewall access to the cloud server:

1. Click **Form Designer**.
2. Click **Publish to Cloud**.
3. When prompted select **Yes** to publish all the forms to the cloud.



4. During publishing the **Publish to Cloud** button displays the progress. The Form(s) uploaded notification indicates that K-Console has successfully accessed the cloud server. Click **OK**.

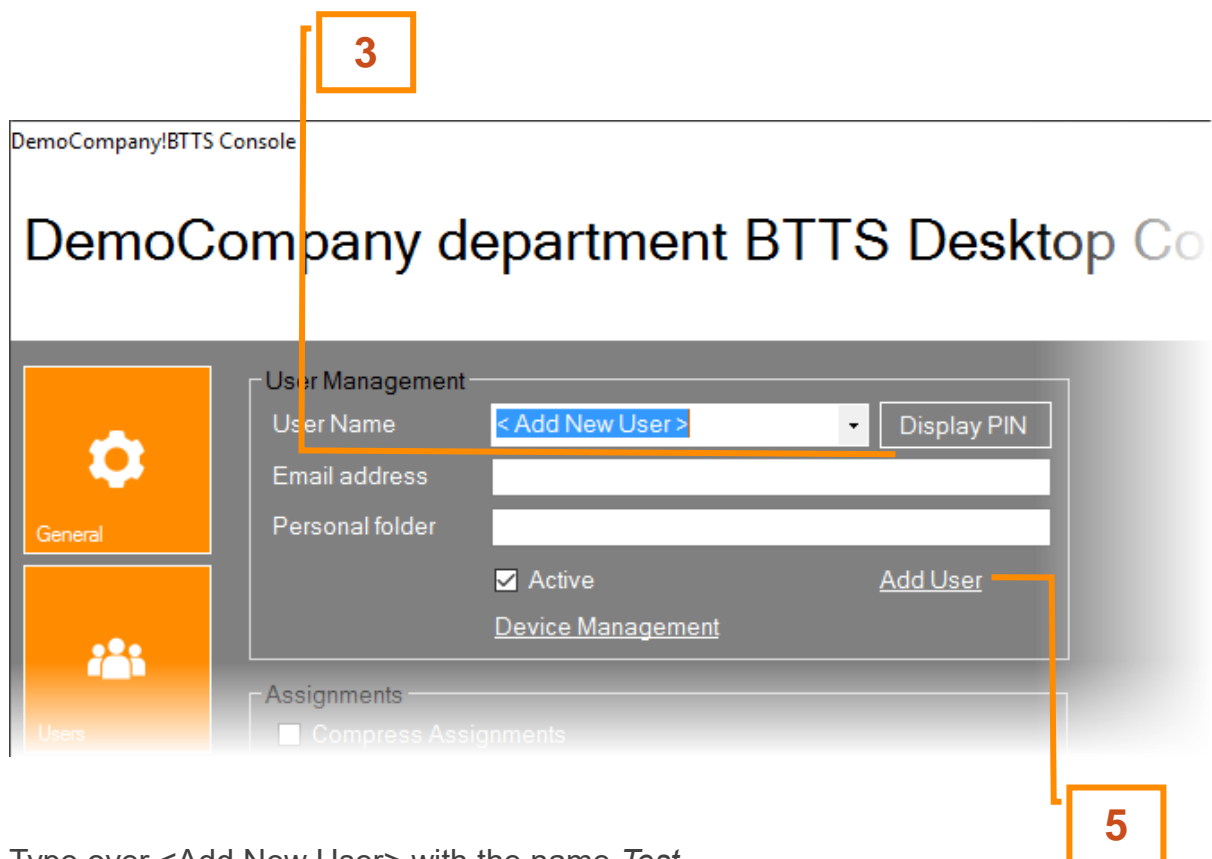


5. If connection or transfer problems occur, IT should be informed K-Console requires FTP protocol (port 21) or SFTP protocol (port 22) access to ie1.hostedftp.com (54.228.213.93).

## Ensuring Microsoft Access Driver is in Place

K-Console requires Microsoft Access Engine is installed. In most cases this driver is installed as part of a previously installed MS Office based product. Confirm the driver is installed by adding a new user:

1. Click **Settings**.
2. Click **Users**.
3. Under User Management from the **User Name** drop down list select **Add New User**.



4. Type over <Add New User> with the name *Test*.
5. Click **Add User**.
6. Confirm the new user has been added to the **User Name** drop down list.
7. If the new user 'Test' appears, the relevant driver is installed and working correctly. Click **Home**. If the user name is not displaying install the Microsoft Access Driver.
8. Click **General**.
9. Under Application Addons click **Microsoft Access Runtimes** to link to the Microsoft Download page.
10. When prompted select the **32 bit** version:

Choose the download that you want

<input type="checkbox"/> File Name	Size
<input type="checkbox"/> AccessRuntime.exe	175.5 MB
<input type="checkbox"/> AccessRuntime_X64.exe	212.4 MB

11. **Download** and **install** it following the Microsoft instructions and prompts.

## Setting up K-Console Background Maps

First set the coordinate system.

1. Click **Settings**.
2. Click **GPS**.
3. Under GPS Management select the required coordinate system from the drop down list.
4. At the same time the Export Option coordinate systems can also be set if exporting to ESRI, Mapinfo or QGIS SRID.
5. Click **Save Settings**.

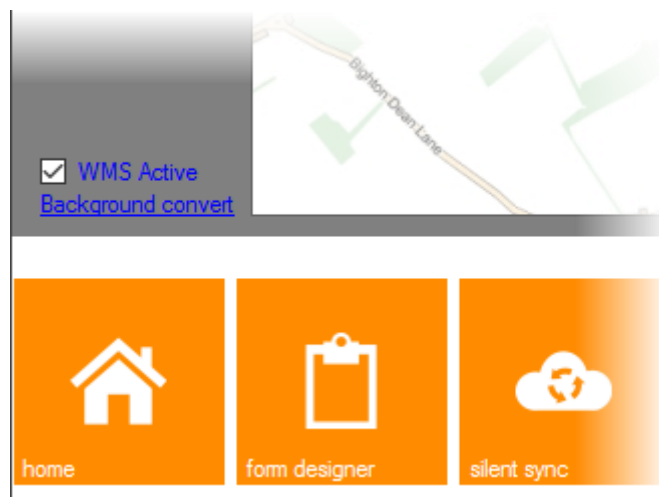
### *Background Maps in England, Scotland and Wales*

If you have a license for the Ordnance Survey MasterMap Topo that is available and can be used as part of system in K-Console and K-Mobile. If not the Ordnance Survey OpenMap can be used as part of the system.

If you have your own background map files to use refer to the section for Ireland.

To setup the Ordnance Survey MasterMap Topo and OpenMap background maps:

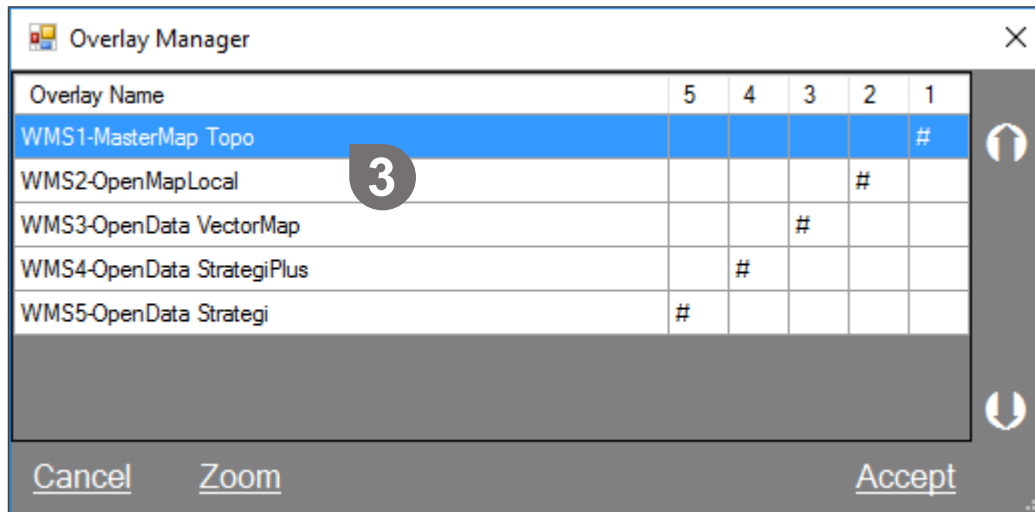
1. Click **Review**.
2. Select WMS Active, what a few minutes.




3. Click the **Scale**  indicator to open the Map controls.



- Click the Overlay Manager .



- If all five layers are not visible, **close** the Overlay Manager, **Zoom Out**  at least 10 times and reopen the **Overlay Manager**.
- Set the Overlay Manager up as displayed previously by clicking in the matrix boxes required to enter a #. An overlay is displayed based on the Zoom Level (1-5). Level 1 being the largest scale (highest zoom level) and level 5 being the smallest scale (lowest zoom level).
- Click **Accept** to save the changes and **close** the Overlay Manager.

If maps other than the default are required refer to the K-MATIC Technical Support Notes/ How-to guides.

### *Background Maps in Northern Ireland*

### *Background Maps in Ireland*

***This section is applicable to anyone wishing to use their own background maps.***

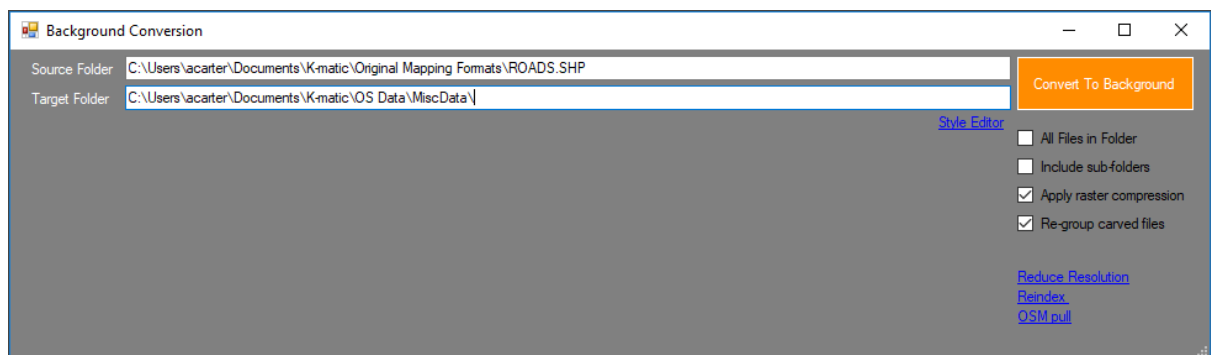
There is no national large scale digital background mapping available for Ireland, so in most instances your own background mapping is used. This mapping providing it is in one of the following formats can be converted for use in K-Console and K-Mobile. Supported formats:




Raster: JPG, TIF or BMP. Raster forms need the corresponding TFW/JGW world file.

Vector: SHP, DXF, MID/MIF, JFL.

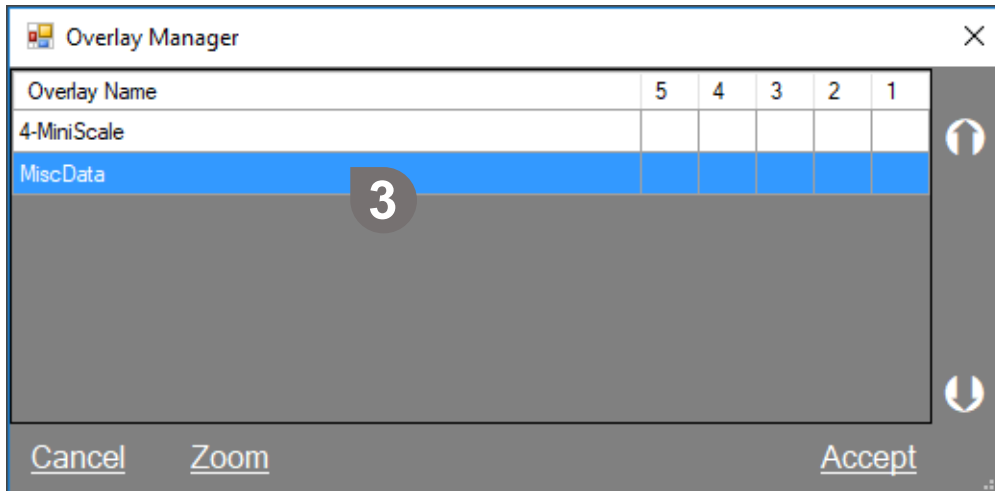
1. Click **Review**.
2. Click **Background convert**.
3. Select the file format from the drop down list.
4. Navigate to the mapping file and open it. Ideally keep the original mapping file(s) in a different directory to OS Data. For example: *C:\Users\acarter\Documents\K-matic\Original Mapping Formats*.
5. Ensure the Target Folder is MiscData as shown in order for the background map to be available in the Overlay Manager.



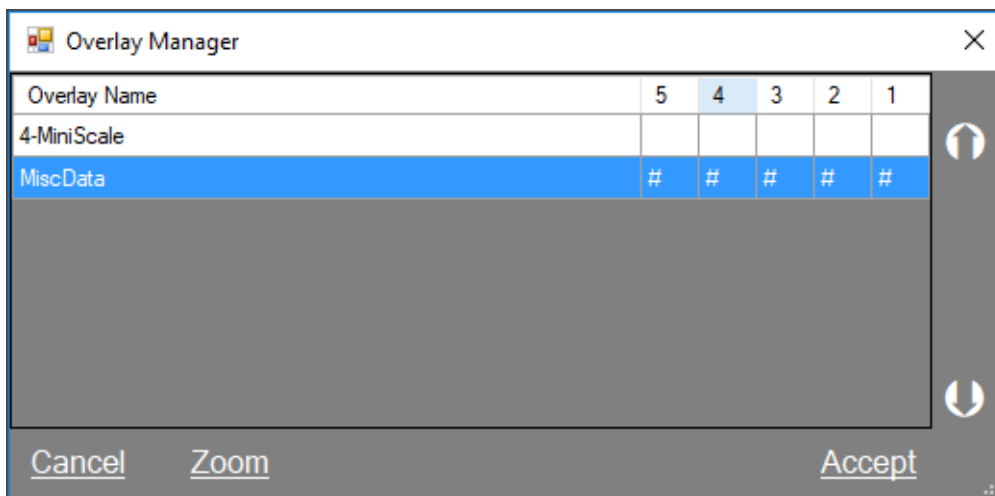
6. Select the settings as required:
  - **All Files in Folder:** If more than the one selected file needs converting in that folder.
  - **Include sub-folders:** If files in subfolders also need converting.
  - **Apply raster compression:?**
  - **Re-group carved files:?**
  - Reduce Resolution:?
  - Reindex:?
  - OSM Pull:?
7. Click **Convert to Background**.
8. Click **Ok** to the conversation complete message.
9. In the *OS Data/MiscData* folder there should now be the converted files.
10. Click the **Scale**  indicator to open the Map controls.



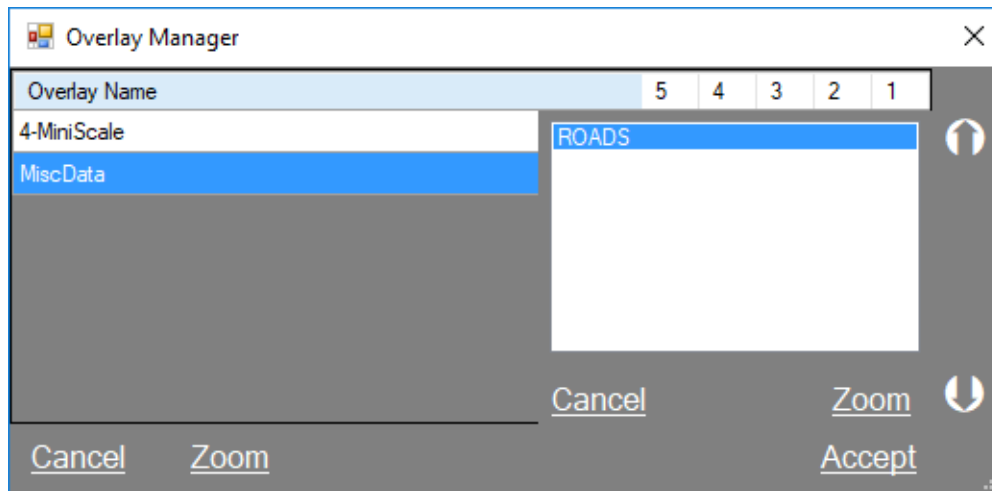
11. Click the Overlay Manager . The folder name containing the converted mapping should be displayed.



12. Double click the MiscData overlay to select it and make it visible at all scales. Remove any scale levels not required by selecting them.



13. Click **Zoom** to display the available layers.



14. Select the layer and click **Zoom** to accept it. The Overlay Manager closes and the background map should display.

# K-Mobile Configuration

***K-Console and K-Mobile must be installed and K-Console must be configured to complete this section.***

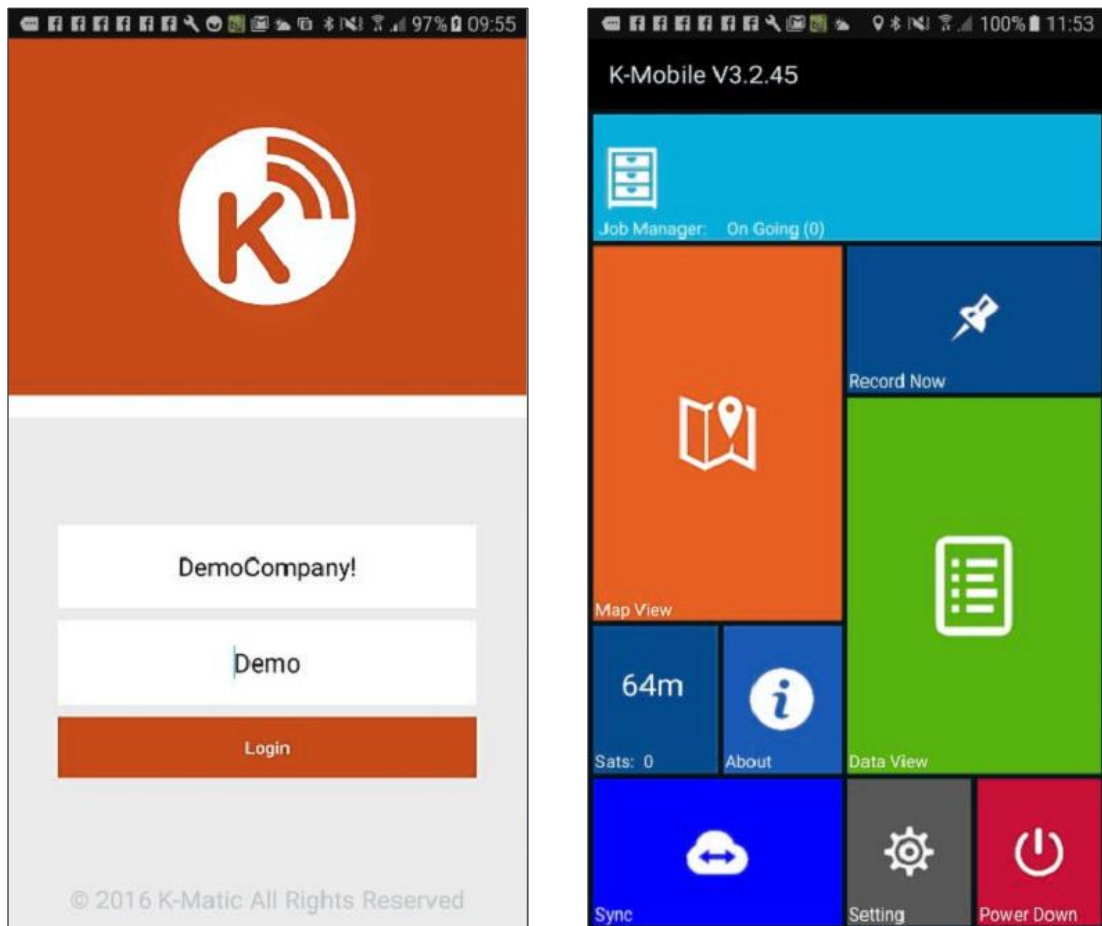
This configuration section describes the minimum required to get K-Mobile configured to manually synchronise via K-Cloud with K-Console and includes a configuration test:


1. Configure General Settings
2. Ensuring Access to the K-Cloud Server
3. Setting up the Default Background Maps
4. Position configuration
5. Confirmation of Job Synchronisation K-Mobile to K-Console.

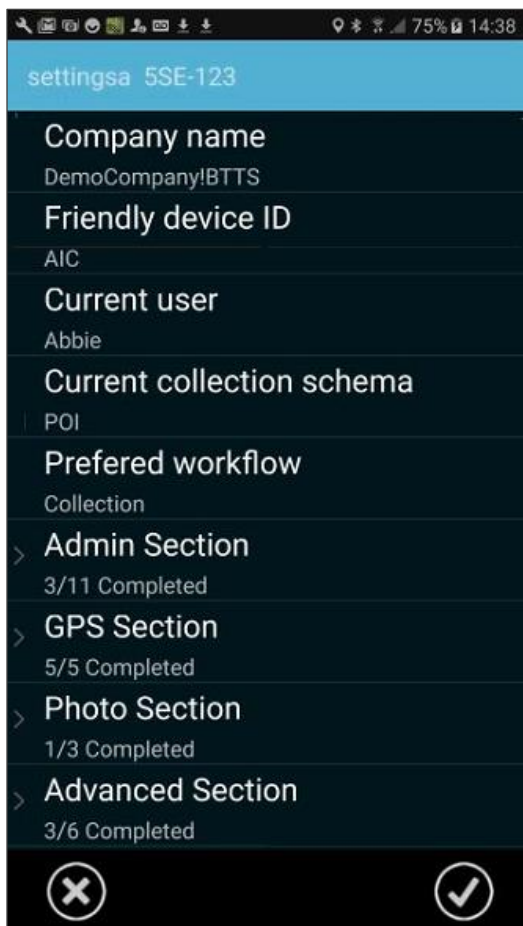
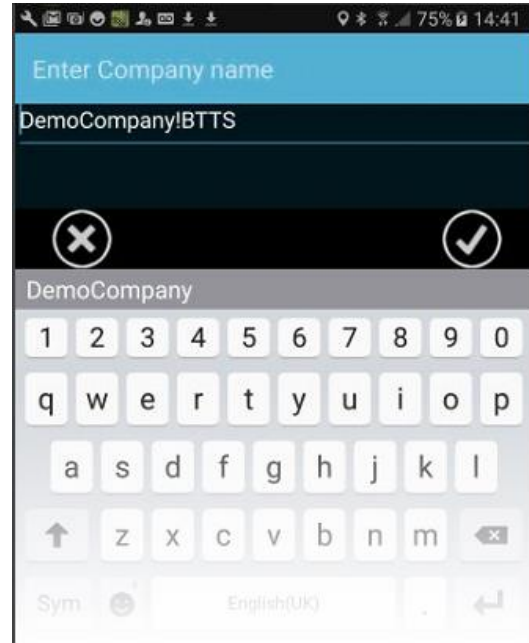
***Note: The setup and usage of your own data collection forms is not essential for this initial configuration and test. Form setup is available here if required.***


## Configure General K-Mobile Settings

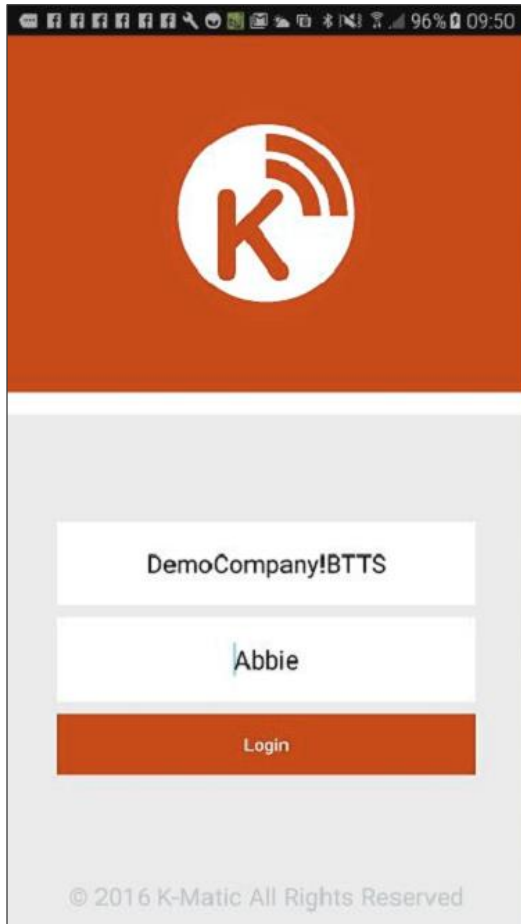
1. Start the K-Mobile app.
2. Tap **Login** to accept the default *Company* and *Current User Name*.
3. From the **Home** page tap **Setting**.



4. Tap **Company Name** and enter in exactly the same *Company Name* as provided via e-mail from KOREC and entered into K-Console. These must be the same if this mobile device is to receive and transfer data to and from K-Console via K-Cloud. Refer to [K-Console System Configuration](#) for additional information.
5. Tap  to save the changes and return to the Settings page.
6. Repeat to enter the *Friendly Device ID* and *Current User* in accordance with your company guidelines.



7. Tap  to accept and **YES** to save the settings and return to the Home page.



8. Tap **Power Down** and **YES** to close K-Mobile.
9. **Restart** K-Mobile. The Company Name and Current User should be the ones entered in the settings. If not the Current User can be changed here, the Company Name must be changed in the settings. For additional security configuration refer to ???.
10. Tap **Login** to accept the Company and Current User Name.

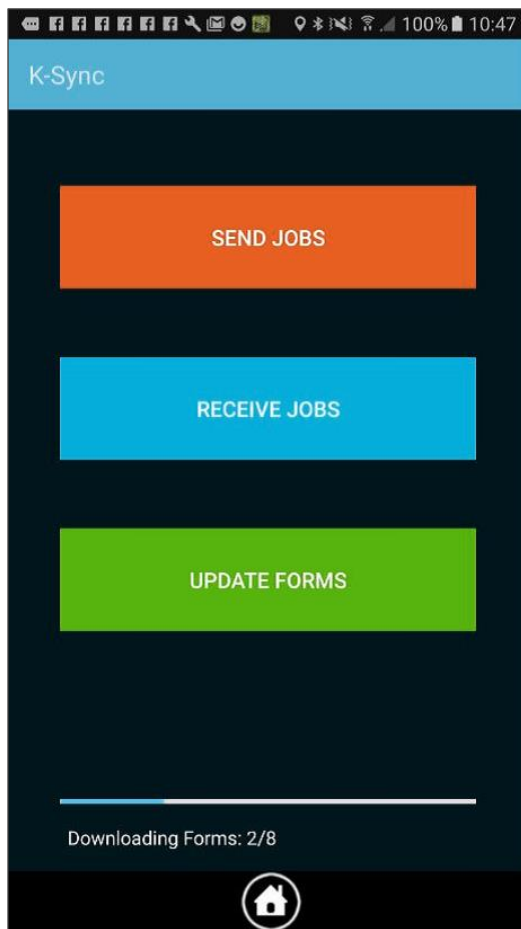
For an explanation of all settings refer to Appendix X.


## Ensuring K-Mobile Access to the K-Cloud Server

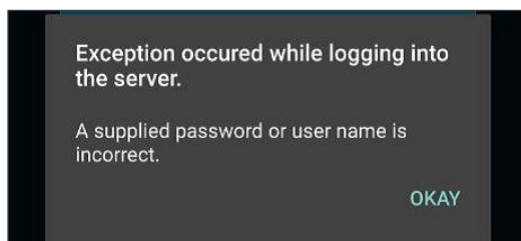
**Internet access (cellular 3G network or home/ office/ public WIFI hotspot) is required for this section.**

To ensure K-Mobile access to the cloud server:

1. From the **Home** page tap **Sync**.



2. Tap **UPDATE FORMS**.
3. Along the bottom of the page a message appears: Authenticating.... Downloading... Complete. If forms are successfully download it indicates that K-Mobile has successfully accessed the cloud server.
4. Tap **Home** .



If the process fails a message appears.

### **Error Message**

A supplied password or username is incorrect:

### **Resolution**

The Company Name is incorrect: Double check the spelling and entry of the Company Name in Settings and



ensure K-Mobile is restarted before trying again.

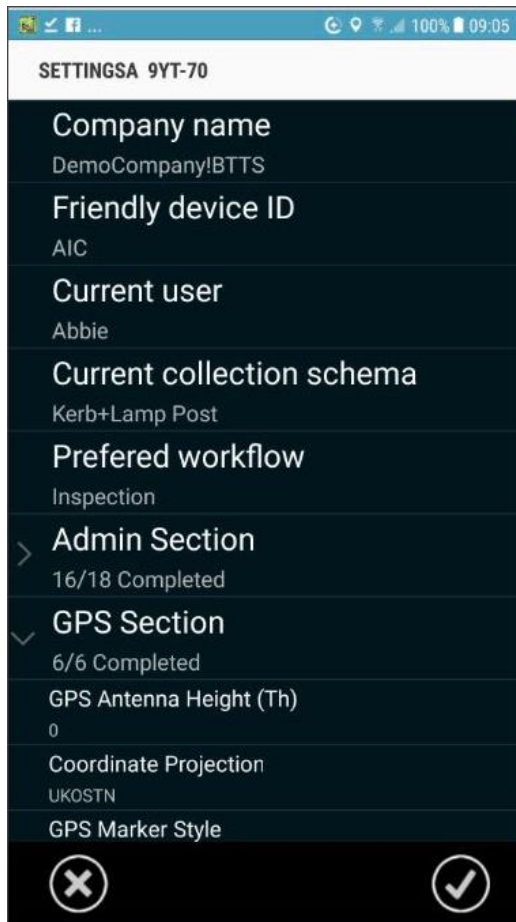
Unable to resolve host name: Could not resolve host 'ie1.hostedftp.com'.


No Internet Connection: Confirm internet connection is working using another means such as synchronising e-mail or a Google search.

## Setting up K-Mobile Background Maps

First set the coordinate system.

1. From the **Home** page tap **Settings**.



2. Tap *GPS Section/ Coordinate Projection*.
3. Select the required coordinate projection.
4. Tap  to accept it and **Yes** to save your settings and return to the Home page.

## Background Maps in England, Scotland and Wales

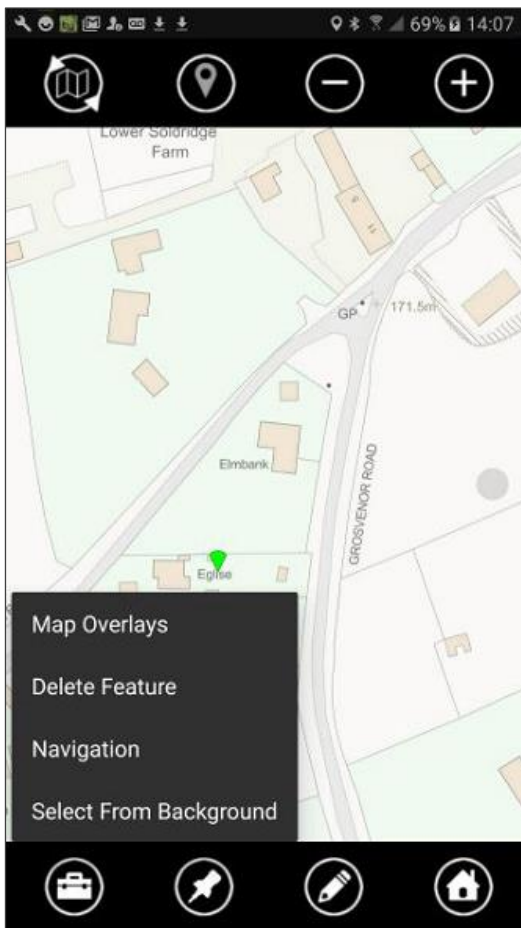
**Internet access (cellular 3G network or home/ office/ public WIFI hotspot) is required for this section.**


If you have a license for the Ordnance Survey MasterMap Topo that is available and can be used as part of system in K-Console and K-Mobile. If not the Ordnance Survey OpenMap can be used as part of the system.

If you have your own background map files to use refer to the section for Ireland.

To setup the Ordnance Survey MasterMap Topo and OpenMap background maps:

1. From the **Home** page tap **Map View**.



2. Tap the **Toolbox** .
3. Tap Map Overlays.

	<ol style="list-style-type: none"> <li>If all five layers are not visible, tap <b>OK</b> to close the Map Overlays, <b>Zoom Out</b>  at least 10 times and reopen the <b>Map Overlays</b>.</li> <li>Set the Map Overlays up as shown by tapping in the matrix boxes required to enter a ✓. An overlay is displayed based on the Zoom Level (1-5). Level 1 being the largest scale (highest zoom level) and level 5 being the smallest scale (lowest zoom level). Use the <b>up</b> and <b>down</b> buttons to change the order in which maps are displayed; front (top) and back (bottom). Select a map and click <b>Zoom</b> to open up an additional layers selection box for the map.</li> <li>Tap <b>OK</b> to save the changes and close the Overlay Manager and display the background maps.</li> <li>Tap <b>Home</b>  to return to the Home page.</li> </ol>
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*Background Maps in Northern Ireland*

### Background Maps in Ireland

**This section is applicable to anyone wishing to use their own background maps.**

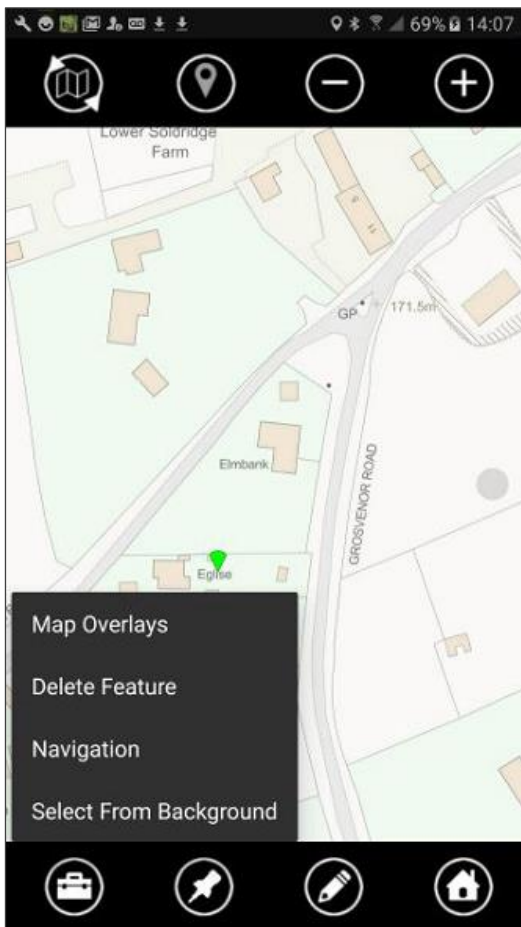
There is no national large scale digital background mapping available for Ireland, so in most instances your own background mapping is used. This mapping providing it is in one of the following formats can be converted for use in K-Console and K-Mobile. Supported formats:

Raster: JPG, TIF or BMP. Raster forms need the corresponding TFW/JGW world file.

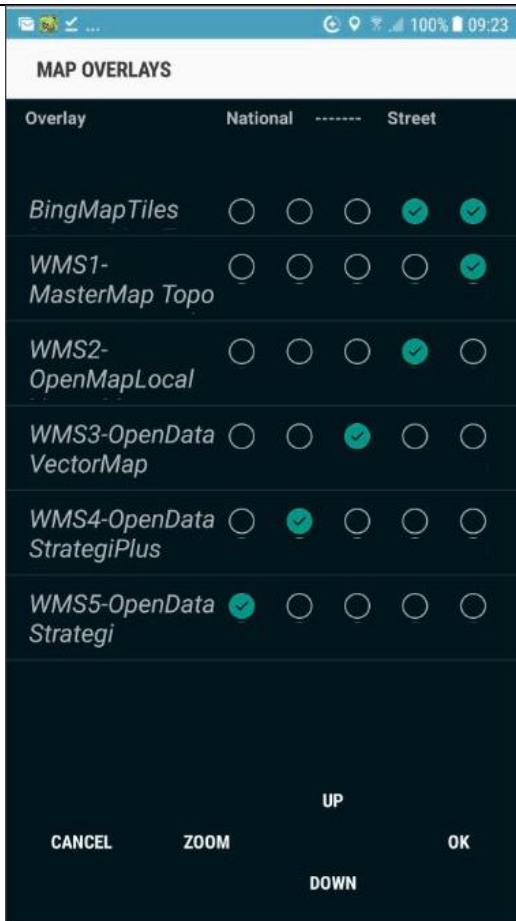
Vector: SHP, DXF, MID/MIF, JFL.


To convert your files use K-Console. Refer to Setting up K-Console Background Maps/ Background Maps in Ireland.

1. Copy the converted background map folder from your PC (default location is *C:\Users\xxxx\Documents\K-matic\OS Data*) to this folder on the K-Mobile device *K-Matic\OS Data*.
2. From the **Home** page tap **Map View**.



3. Tap the **Toolbox** .
4. Tap **Map Overlays**.



5. The background map folder should be visible in the list.
6. Set the Map Overlays up by tapping in the matrix boxes required to enter a ✓. An overlay is displayed based on the Zoom Level (1-5). Level 1 being the largest scale (highest zoom level) and level 5 being the smallest scale (lowest zoom level).
7. Select the background map and use the **up** and **down** buttons to change the order in which maps are displayed; front (top) and back (bottom).
8. Select a map and click **Zoom** to open up an additional layers selection box for the map.
9. Tap **OK** to save the changes and close the Overlay Manager and display the background maps.
10. Tap **Home**  to return to the Home page.

## K-Mobile Position Configuration

Regardless of K-Mobile is being operated the majority of the time K-Mobile requires access to a GPS position, how this is configured depends on your device refer to the appropriate section as required:

*Android Device Position Configuration*



*Windows Mobile GPS and DGPS Position Configuration*

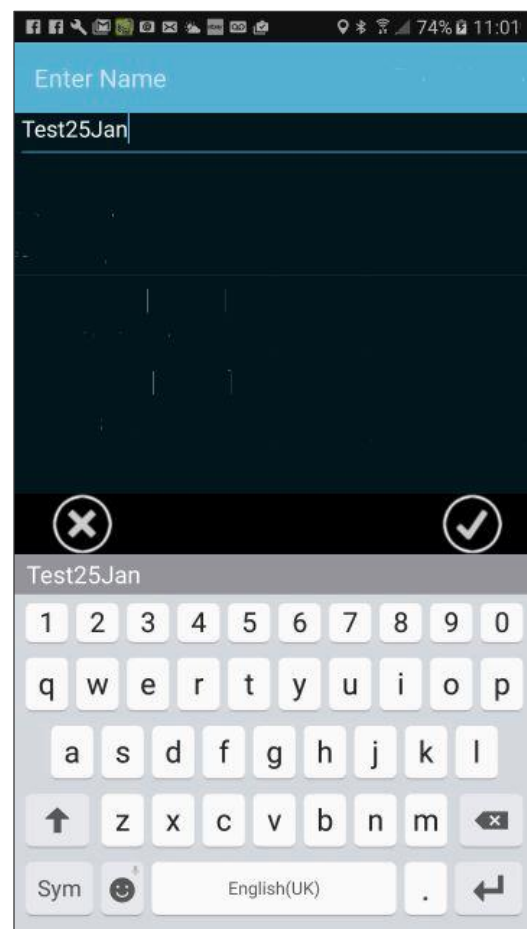
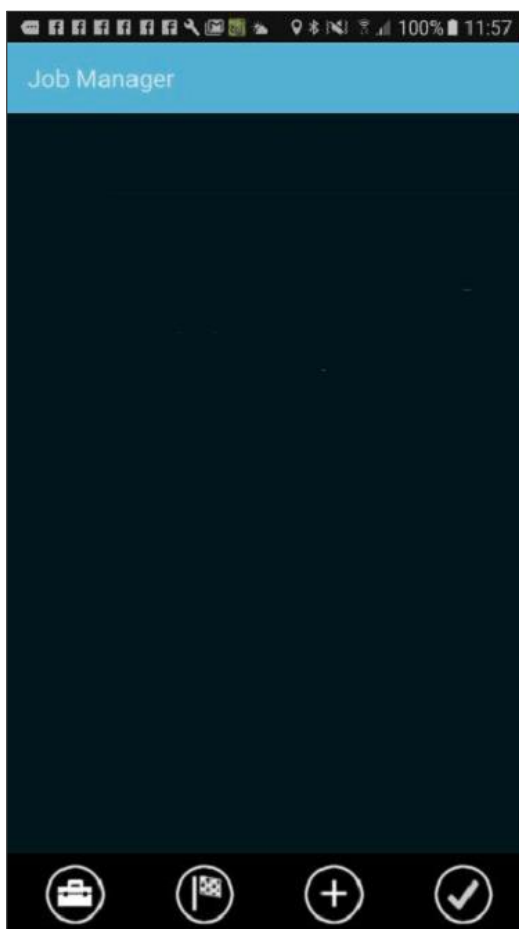
*Windows Mobile VRS Position Configuration*

*Windows Mobile RTX Position Configuration*

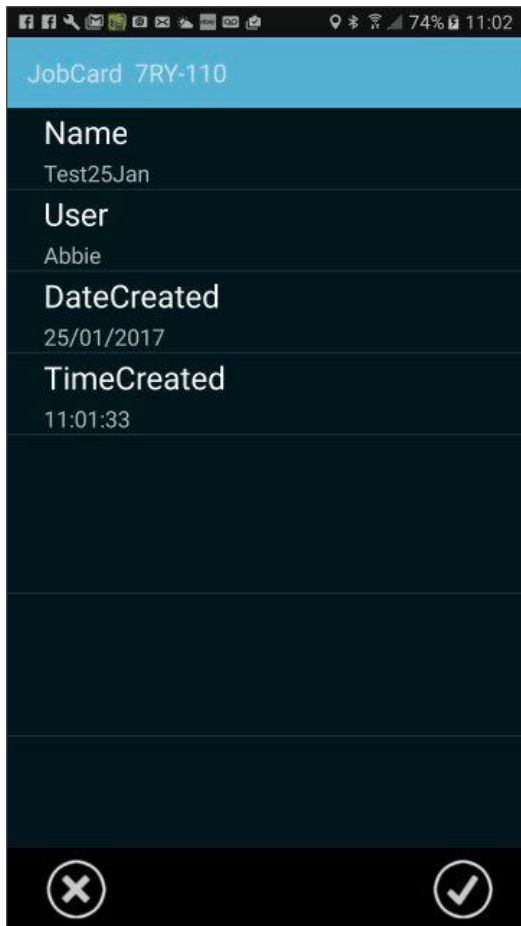
## Confirmation of Job Synchronisation K-Mobile to K-Console.

To quickly confirm the ability to record a feature and send it back to K-Console before fully setting everything up follow these steps which assume internet and K-Console server connection, background maps and GPS configuration are complete. This section uses manual synchronisation via the internet and K-Cloud.

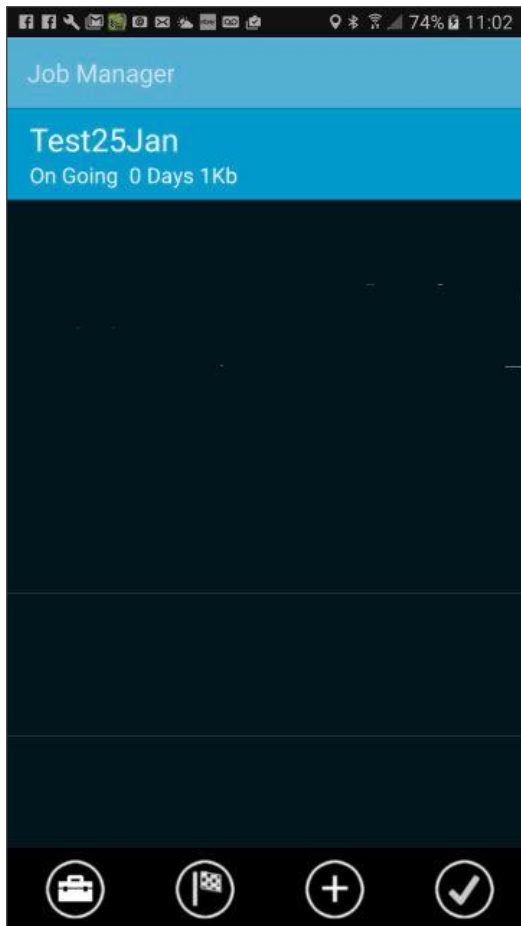
1. In K-Mobile from the **Home** page tap **Job Manager**.
2. Tap  to start a new job.
3. Enter in a job name and tap  to accept it.






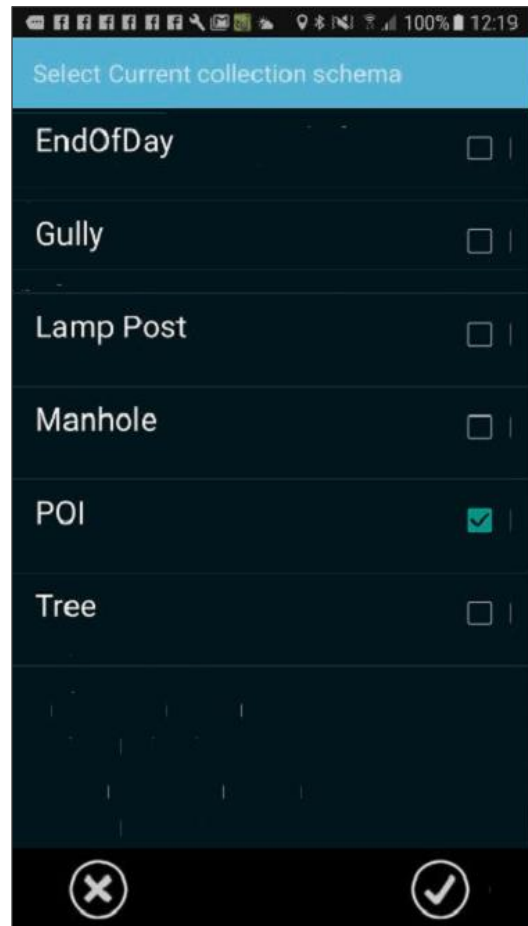
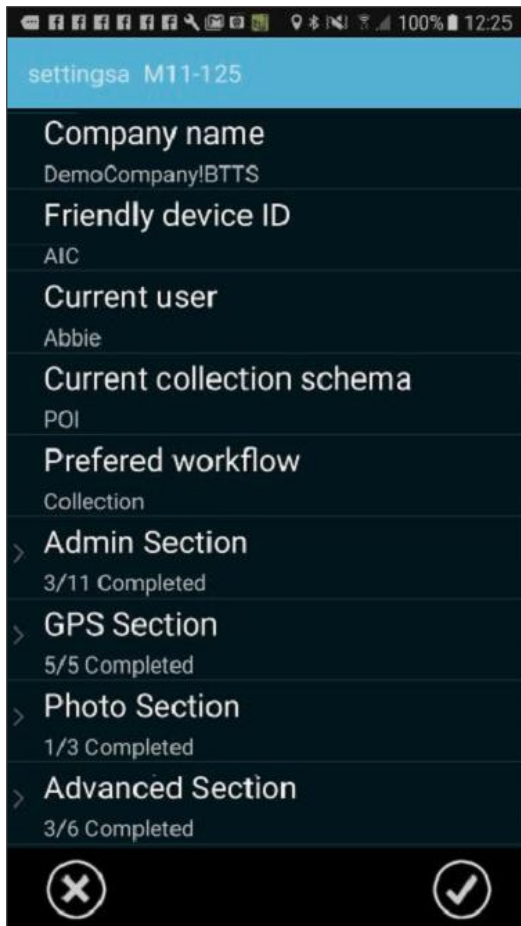




4. Tap  to save the job settings.

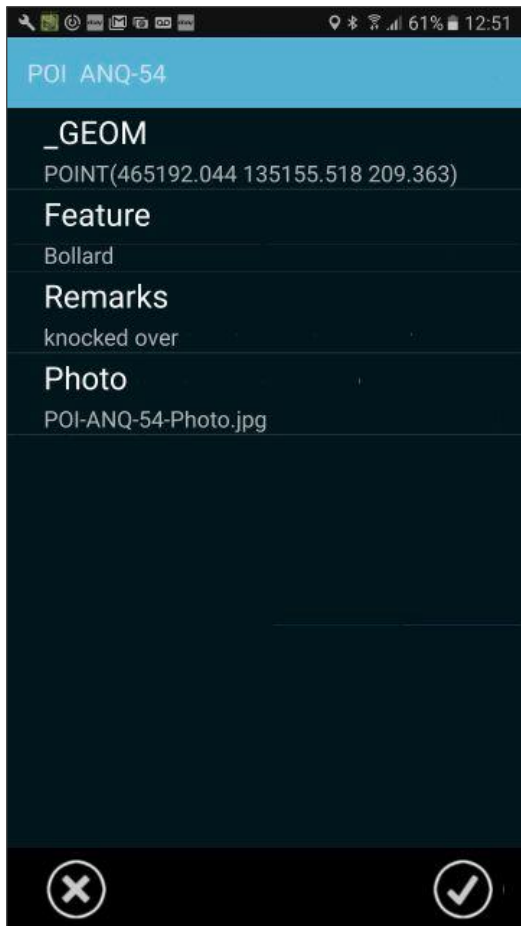




5. Tap the job to select and highlight it.
6. Tap  to make this the current job and return to the **Home** page.

7. From the **Home** page tap **Setting**.
8. Confirm the Current collection schema is POI. If not tap the **Current collection schema**.
9. Tap the **POI** box to enter a ✓ and add it to the collection schema.
10. Tap any others to remove them from the collection schema.

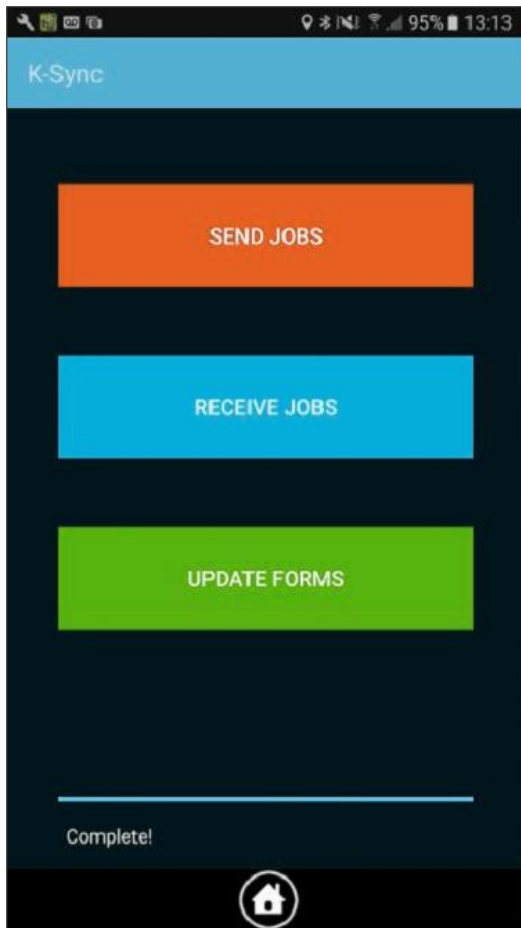


11. Tap  to accept and save the changes. For further information on Forms refer to.
12. Tap  to accept and **YES** to save the settings and return to the Home page.
13. Tap **Record Now**.



14. Enter in any Feature, Remarks or Photo information by tapping on each item, entering the information and tapping  to accept it. As each field in the form is accepted the next field is immediately opened.
15. When all fields are complete tap  to accept and save the feature and return to the **Home** page.

16. From the **Home** page tap **Sync**.



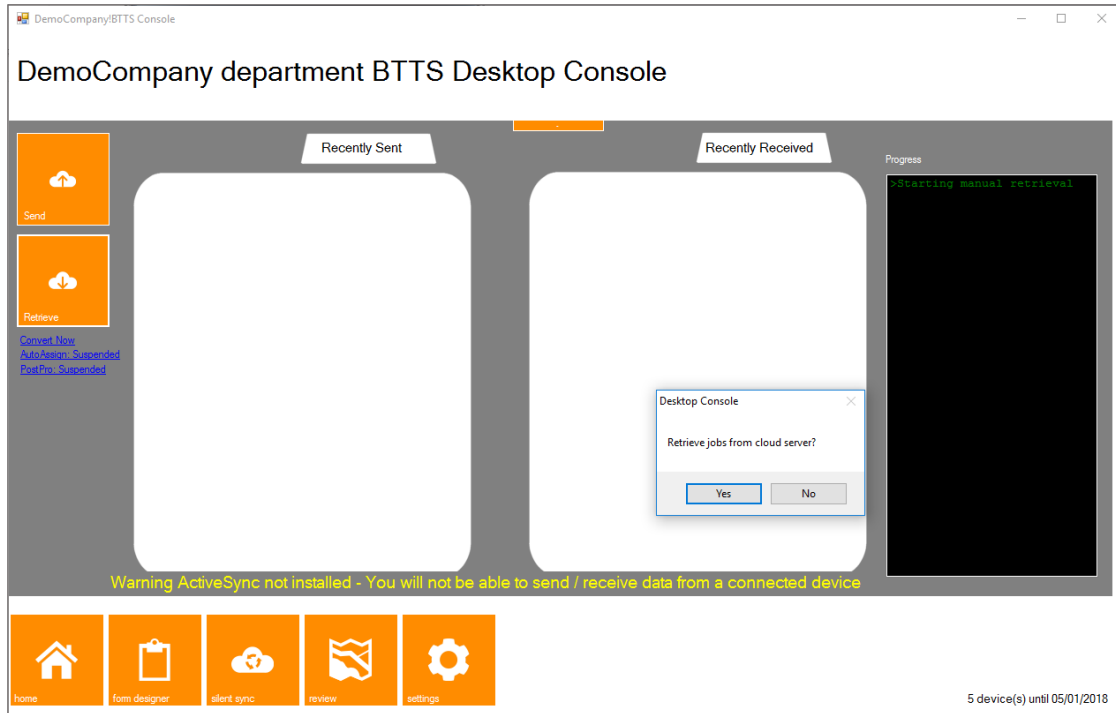
17. Tap **SEND JOBS**. Along the bottom of the page a message appears: Authenticating.... Downloading... Complete. Complete indicates that K-Mobile has successfully accessed the cloud server and sent the jobs to it.

18. Tap **Home** .

19. **Open** K-Console.

20. Click **Silent Sync**.

21. Click **Retrieve** and **Yes** to retrieve the jobs from the server.



22. The **Progress** can be viewed in the right hand window and the jobs retrieved from the cloud are displayed in the **Recently Received** window. Note it may take a few minutes for features with a lot of photographs to synchronise.

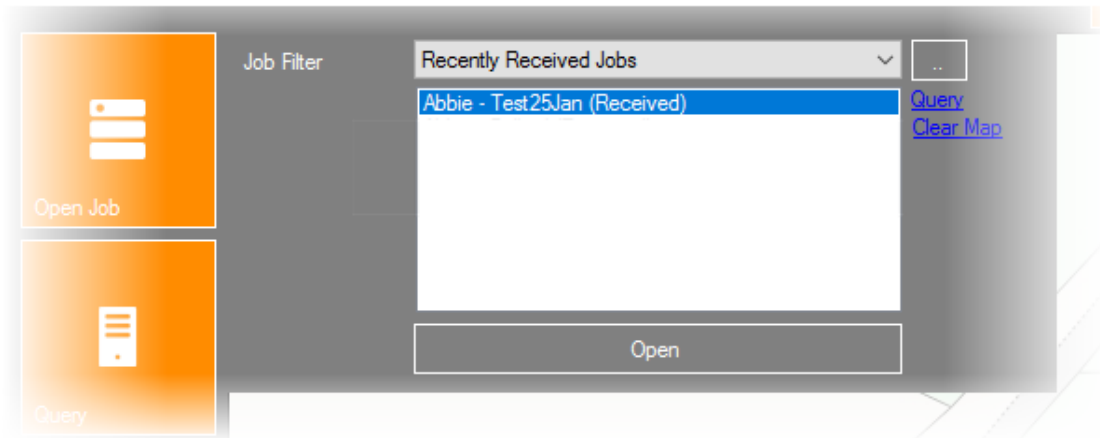


23. Once the data has been retrieved click **Review**.

24. Click **Open Job**.

25. From the **Job Filter** drop down list select **All Jobs** or **Recently Received Jobs**.


26. Select the *job* required.



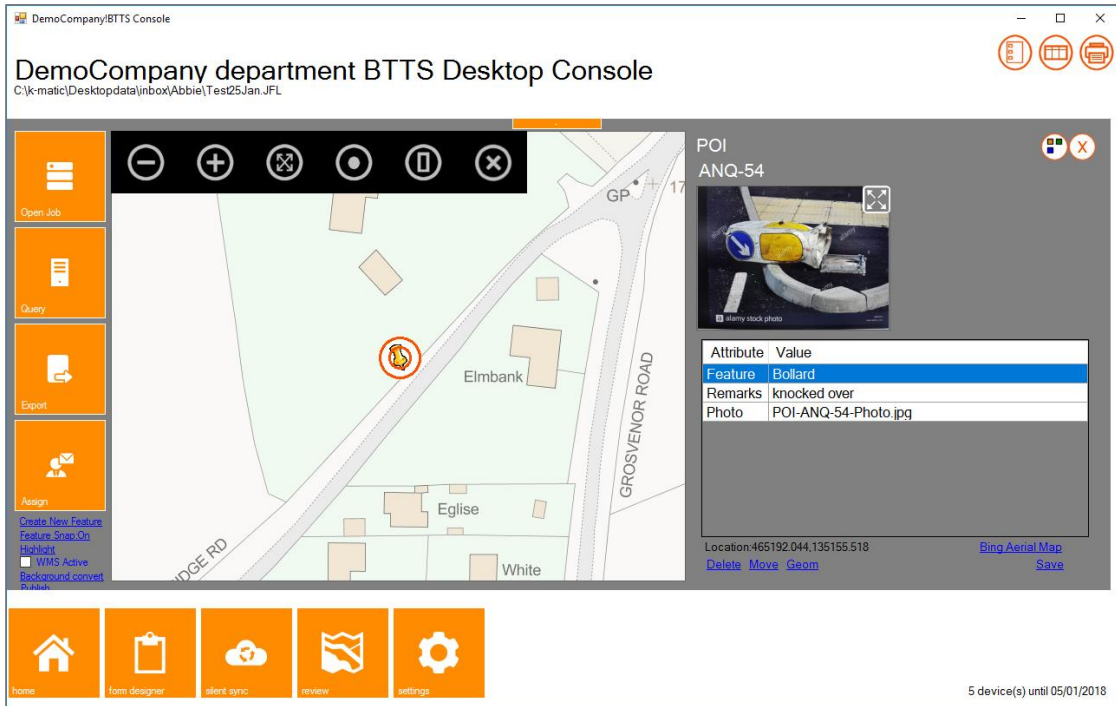
27. Click **Open** to view it on the map.

28. If the point is not visible click the **Scale**  indicator to open the Map controls.



29. Click **Zoom Extents**  to zoom to the extents of the job.

30. Click the *point* on the map to open up the attribute information on the right hand side.



For further information on Review in K-Console refer to



## **K-Console: Device and User Management**

## **K-Console: Form Setup, including transfer and update to K-Mobile**

## **K-Console: Job Management**

## **K-Mobile: Jobs, Data Collection and working with the Data View**

## **K-Mobile: Working with the Map View**

## **K-Console: Data Import**

## **K-Console: Data Export**

## **Troubleshooting**

K-Mobile stops with an error message: 'K-Mobile has Unfortunately Stopped Working. When trying to send jobs. Go to the K-Matic/Outbox folder on your device, remove all files and try again.

# Appendix

## K-Console Settings

DemoCompany!BTTS Console

### DemoCompany department BTTS Desktop Console

**General Settings (v 3.2.9)**

Company: DemoCompany!BTTS  
Private Key: 008580501180050433 [Request Key](#)  
Administrator email: abbie\_carter@btt-services.co.uk

Alternative tracking server:

K-Console login required  Full Screen  
 Use K-Cloud for Synchronisation  
Check interval (mins): 5  
 Use Active Sync for Synchronisation  
 Viewer Mode  Disable Retrieve  Disable cloud services

**Optional Alternative Folder Management**

DesktopData folder: C:\k-matic\Desktopdata  
Form Storage: C:\k-matic\Forms  
Export folder: C:\k-matic\Export  
Image Library: C:\k-matic\Image  
Mapping Folder: C:\k-matic\Mapping  
Installation Folder: ...724ee6192c458\_0003\_0002\_f7420639c4060705  
 Allow Publishing  Host images online

**Application Addons**

[Sample Data Sets](#)  
[Additional OS Data sets](#)  
[Additional Coordinate System Management](#)  
[Microsoft Access Runtimes](#)  
Access On Screen Keyboard   
[Secure app update Download](#)

**Server Mode Settings**

Admin email:   
Email when job received   
Email when completed job received   
Server Mode   
IIS Mode Active   
IIS Root Folder:   
Server URL (ex):   
Web Metrics:

home form designer silent sync review settings

5 device(s) until 05/01/2018

## General Settings

**Company and Private Key:** You should have been provided with a Company Name and Private Key. This must be entered as given as it is linked to the account in the cloud, where the data is stored during transfer. Please be aware that the data is only stored in the cloud temporarily, while it is taken from the device and confirmed that it has been downloaded to the K-Console correctly. We DO NOT keep a copy of any of your data.

**Request Key:** Can be clicked to request a company and private key, including a demonstration key lasting X days. Prior to requesting a key ensure the *administrators e-mail* address is entered.

**Administrator email:** Enter to receive notifications from KOREC and .....

**K-Console login required:** Login page when K-Console is accessed????

**Use K-Cloud for Synchronisation:** Needs to be selected if any form of automatic synchronisation or retrieval via K-Cloud is required.

**Check interval (mins):** How often K-Console automatically checks with K-Cloud for new data if 'Use K-Cloud for Synchronisation' is checked.

**Use Active Sync for Synchronisation:** Use the USB cable connection to send data. Microsoft Active Sync needs to be installed.

**Viewer Mode:** Only viewing of data can happen no send/retrieve

**Disable Retrieve:** Disables any manual retrieval of data either via MS ActiveSync or K-Cloud. In order for any data retrieval to take place automatic synchronisation must be enabled. Used in situations where organisations need to ensure duplicate data is not entered into an enterprise database.

**Disable cloud services:** Disables the cloud send/retrieve option.

**Optional Alternative Folder Management:** These 5 paths should be something along that displayed or in the My Documents folder. If not and they should be these or other folder location determined by your company such as a shared drive make the changes by typing in the paths required. It can be typed in as a mapped drive letter i.e. F:\ or as a sever location \\LIV-FS\K-Matic.

**Installation Folder:** A link to where the K-Console.exe is stored. By default the install location is in App Data\Local\Apps within the My Documents area of the User.

**Application Add-ons:** There are links to Sample datasets, additional background maps for UK and Ireland and Additional co-ordinate system management for exporting KML data. There is also a free download link for Microsoft Access Runtimes if Microsoft Access isn't installed.

**Server Mode Settings:** This section is for a specific setup using an IIS server, so that data can be pushed to a locally hosted website. If you are interested in this please contact your local salesman.