



Konec Dataset Export Tool

The KD Export Tool is used to automate the export of datasets or dataset query results from your Konec database. Commonly you will use this tool to refresh corporate data from the results of field processes completed in Konec and required for corporate distribution and consumption through other tools. An example of this may be where Konec is the field tool used to manage the inspection and maintenance closure of an asset class such as a tree population but the result of those inspections and maintenance activities must be disseminated to the broader organisation through a corporate GIS platform. KD Export will extract the Konec-collected field data into GIS files of well-known format that can then be accessed by other users.

KD Export is a console or command-line program that is run from the DOS prompt. The Windows Task Scheduler can be used to automate the execution of such command-line programs. This means that KD Export can be run automatically at an appropriate time without requiring user intervention.

Prerequisites

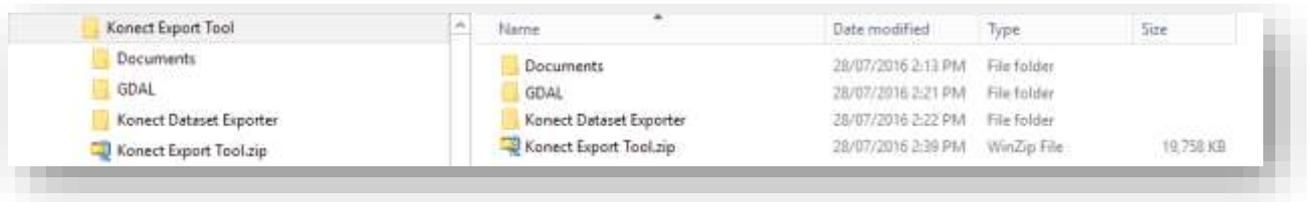
The KD Export Tool is a 64 bit .NET application. It has the following prerequisites

- 64 bit Windows operating system
- .NET framework 4.8 - <https://dotnet.microsoft.com/download/dotnet-framework/net48>
- The latest 64 bit C++ redistributable - <https://support.microsoft.com/en-au/help/2977003/the-latest-supported-visual-c-downloads>

Please download and install the above software packages.

Installation

Copy the file 'KonecExportTool.zip' to a suitable location (eg create a folder called Konec Export Tool) with read/write access and extract the zip file. A folder structure as shown below will be created. DO NOT CHANGE THE FOLDER STRUCTURE.



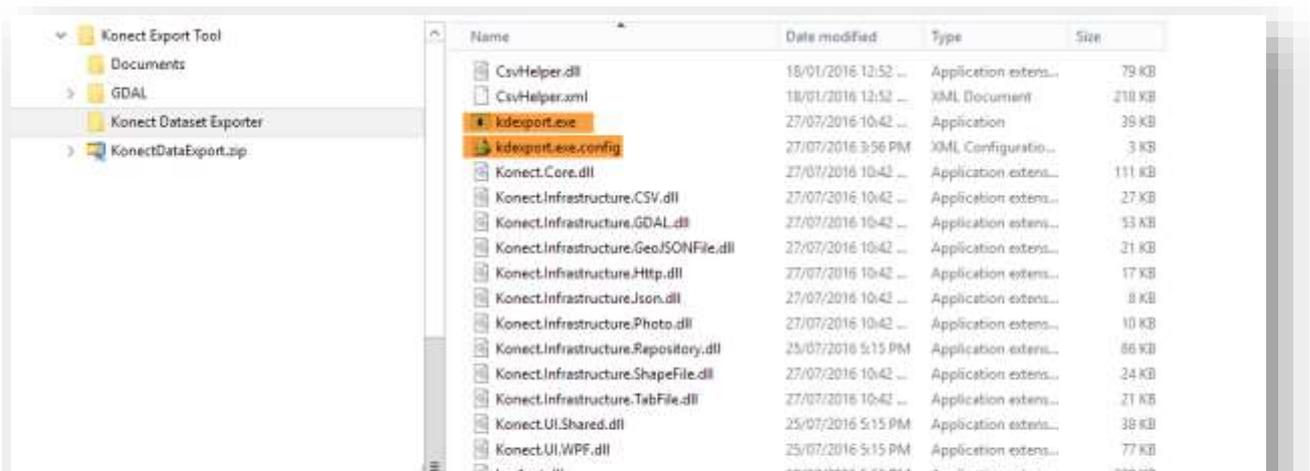
There are two files located in the Konec Dataset Exporter folder that you will need to interact with:

kdexport.exe

you will need to browse to this file when scheduling your exports in the Windows Task Scheduler. If running kdexport.exe from the DOS command line, you will need to type in the full path to this file or change your current directory to the folder where kdexport.exe is located.

kdexport.exe.config

this file will need to be edited to set the location of the log file

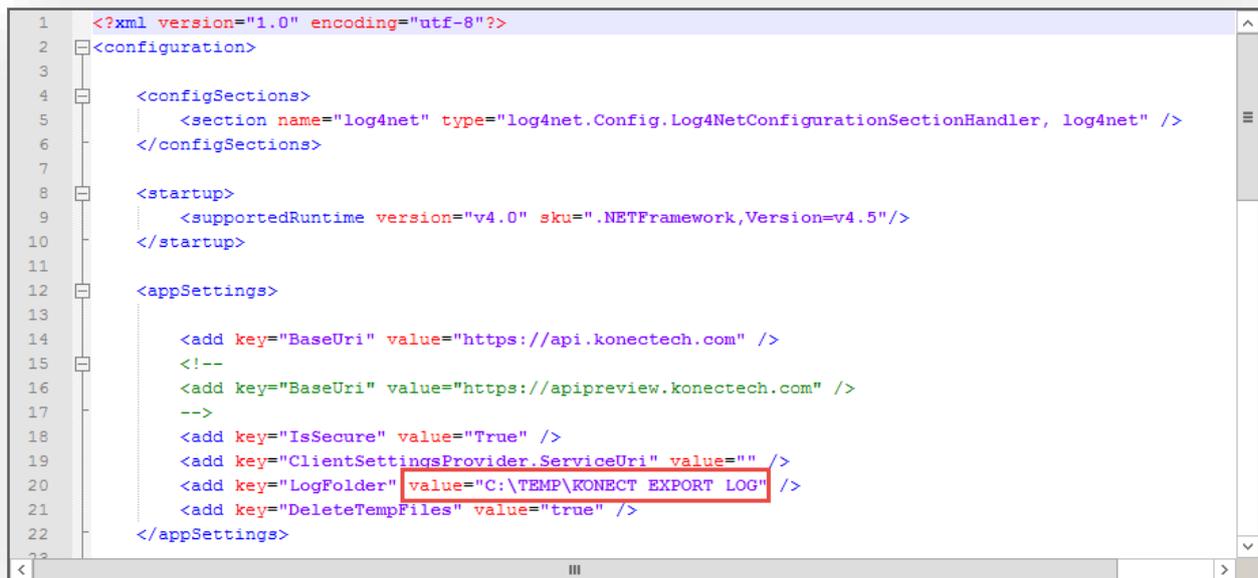


Setting the Log Folder

Open the file 'kdexport.exe.config' with a text editor such as Notepad. There is a setting called LogFolder where the path of the folder containing the log file folder is set.

```
<add key="LogFolder" value="C:\TEMP\KONECT EXPORT LOG" />
```

Edit the default 'value' for this setting to the folder where the log file is to be written. **Make sure that the full folder path exists and that appropriate write privileges have been applied.**



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <configuration>
3
4 <configSections>
5 <section name="log4net" type="log4net.Config.Log4NetConfigurationSectionHandler, log4net" />
6 </configSections>
7
8 <startup>
9 <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5"/>
10 </startup>
11
12 <appSettings>
13
14 <add key="BaseUri" value="https://api.konectech.com" />
15 <!--
16 <add key="BaseUri" value="https://apipreview.konectech.com" />
17 -->
18 <add key="IsSecure" value="True" />
19 <add key="ClientSettingsProvider.ServiceUri" value="" />
20 <add key="LogFolder" value="C:\TEMP\KONECT EXPORT LOG" />
21 <add key="DeleteTempFiles" value="true" />
22 </appSettings>
23 </configuration>
```

Running Konect Dataset Exporter

KD Exporter can be run in two ways:

1. From a DOS Command Prompt – it is likely that this will be used to test KD Exporter.
2. From the Windows Task Scheduler – used to automatically run KD Exporter on an ongoing basis.

Command Line Structure

The structure shown below is common to both methods of running KD Exporter. However, there are slight variations as to how the executable is referenced for each method. These variations will be shown in the more detailed notes that follow. Apart from the reference to 'kdexport.exe', the structure shown immediately below is common.

```
-pin=account_PIN -dataset=dataset_name -format=export_file_format -file=export_file  
-photos=photos_value -listvalue=unique -fields=export_fieldnames --sysfields= sysfields_value
```

A detailed explanation of the command line switches is provided in the following section.

Command Line Switches

Switch	Possible values	Required	Definition
-pin	Your PIN	Yes	The account pin
-dataset	KM Dataset Name	Yes	The name of the dataset or query to export
-format	tab shape geojson csv kml	Yes	The export file format (MapInfo TAB file, ESRI Shape file, GeoJSON, CSV or KML)
-photos	true false	No	Specifies whether to download related photos as part of the export. If the switch is not used the default value is false, ie photos are not exported.
-excludephotofooter	true false	No	Specifies whether to remove the konekt photo footer when exporting images
-listvalue	unique display both	No	Specifies whether to export the unique values for List fields, the display values or both. If the switch is not specified, the default is to export the unique values.
-fields	KM Export Names of fields	No	Specifies the columns to export. The fields option should use the field export name and the field names must be comma separated. Do not put any spaces between the field export names. If the switch is not specified then all fields in the dataset are exported by default.
-sysfields	true false	No	Specifies whether to export the konekt systems fields. If the switch is not used the default value is true, ie the system fields such as '_id', '_created' etc. are exported.
-history	true false	No	Specifies whether to export the transaction history for the specified dataset/query. Photos will not be exported with the transaction history.
-user	Konekt_username	No	Specifies your konekt username if authentication has been turned on for this account
-pwd	Konekt_password	No	Specifies your konekt password if authentication has been turned on for this account
-proxyhost	proxy.domain.local	No	Specifies the proxy hostname if your organisation uses a proxy server
-proxyport	8000	No	Specifies the proxy port if your organisation uses a proxy server
-proxyuser	Proxy_username	No	Specifies the proxy username if your organisation uses a proxy server with authentication
-proxypwd	Proxy_password	No	Specifies the proxy password if your organisation uses a proxy server with authentication
-file	Export file	Yes	Specifies the export file. If the file exists in the target location it will be replaced. The switch value must be the full pathname to the export file.

Note 1:

If any of the switch values contain a space then the value must be enclosed in double quotes. For example, if the dataset name is 'My dataset' and the export file is 'C:\TEMP\My export.TAB' then the command line switches must be:

```
-pin=pin_number -dataset="My Dataset" -format=tab -file="C:\temp\My export.TAB"
```

Note 2:

It is recommended that the command line be created/edited in a **text editor** (such as Notepad) and not an application such as Microsoft Word that uses its own set of characters. For example, in MS Word the double quotes character, “, is not recognised on the DOS command line. However, the double quotes character used in Notepad, ", will be recognised on the DOS command line.

Note 3:

All the folders referenced in the export file path **must exist**. If a folder does not exist, kdexport.exe will report an error and exit.

Note 4:

When the switches '-photo=true' and '-fields=....' are both used together, then at least one photo field in the dataset must be specified in the '-fields=.....' switch. If no photo fields are specified, kdexport.exe will report an error and exit.

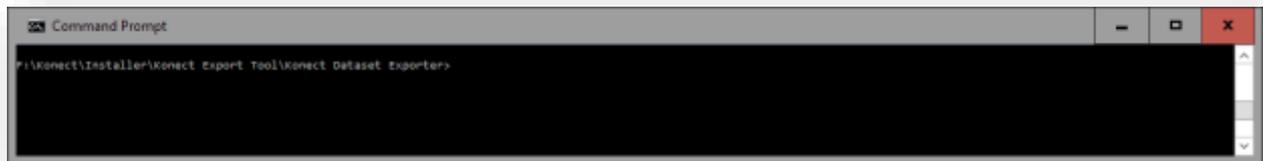
Note 5:

If the export dataset contains no data the command line will error and fail.

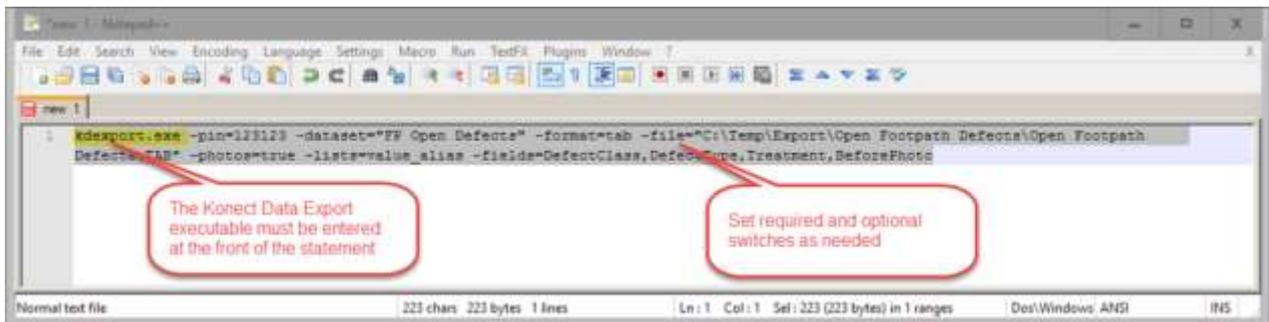
Running from a DOS Prompt – Command Line

1. Open a Command Prompt window (enter 'cmd' in the Start Search box – Win 7/8 or Cortana – Win 10 and select Command Prompt from the presented list)
2. Change folders using the "cd" command so that the DOS prompt shows the path to the file 'kdexport.exe'.

For example, in my case this is: F:\Konect\Installer\Konect Export Tool\Konect Dataset Exporter



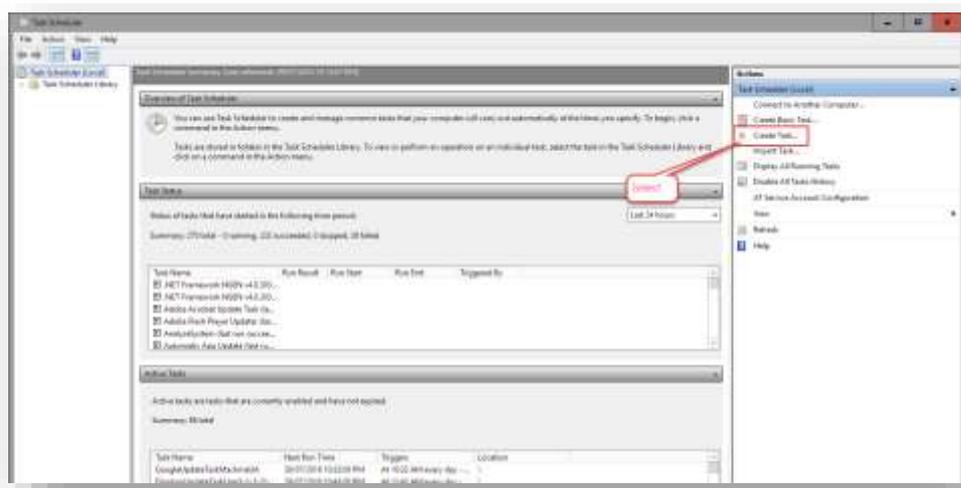
3. Either type the required command line directly at the DOS prompt or create the command line in a text editor and then copy and paste it into the Command Prompt Window. In the example below, the appropriate command line to run kdexport.exe has been created in Notepad++. The text is then copied and pasted into the Command Prompt window before pressing the Enter button to run kdexport.exe.



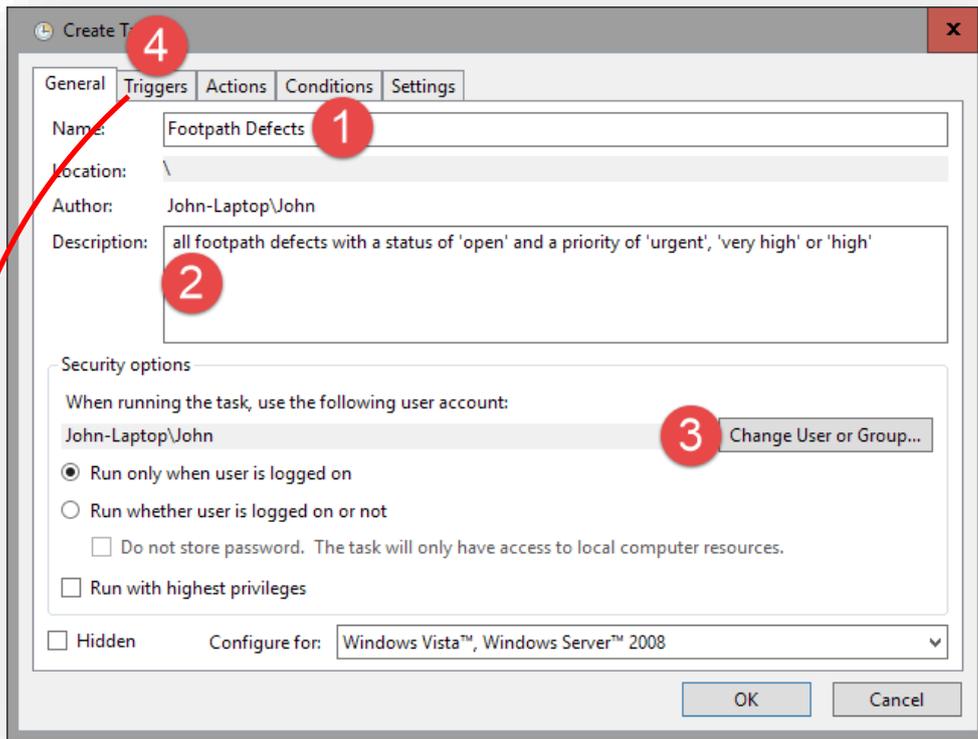
4. Press Enter to run the command line

Creating a Scheduled Task in Windows

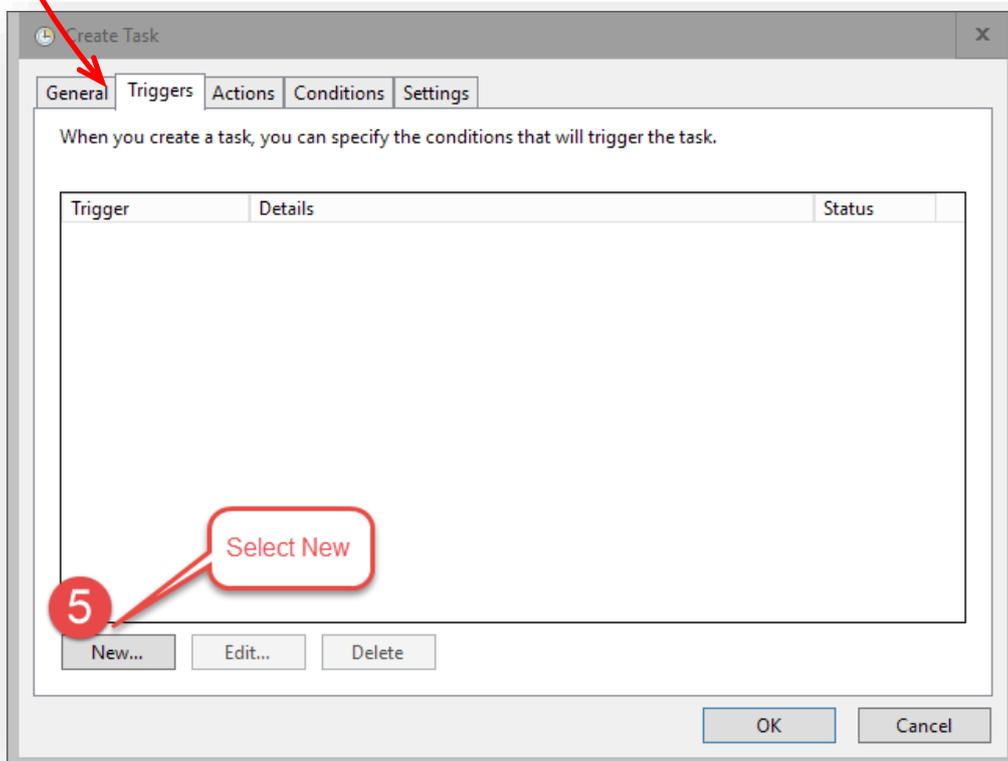
1. Open Windows 'Task Scheduler' (type 'task scheduler' in the Start Search box – Win 7/8 or Cortana – Win 10 and select Task Scheduler from the list.)



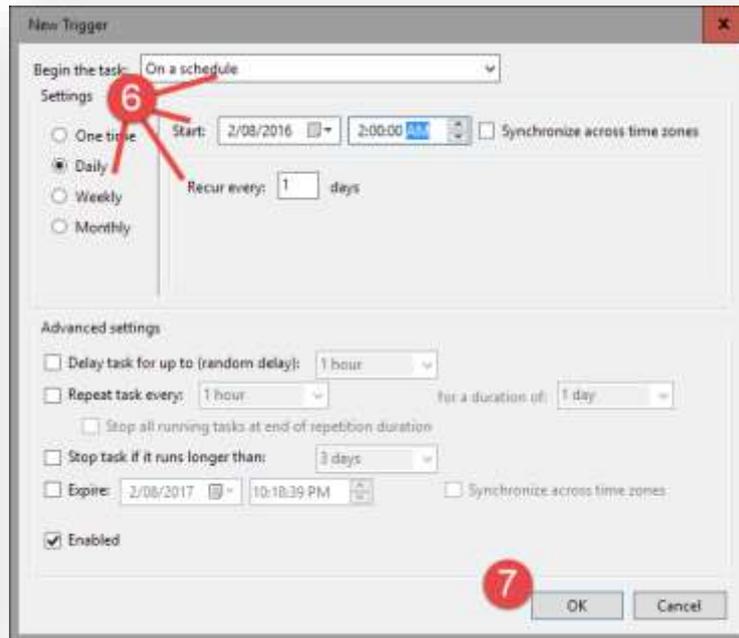
2. Click on the 'Create Task...' in the Action Panel and the 'Create Task' window will appear.



1. Fill in the Name
2. Fill in the Description if needed.
3. Edit the User or Group if required.
4. Select the 'Triggers' tab.

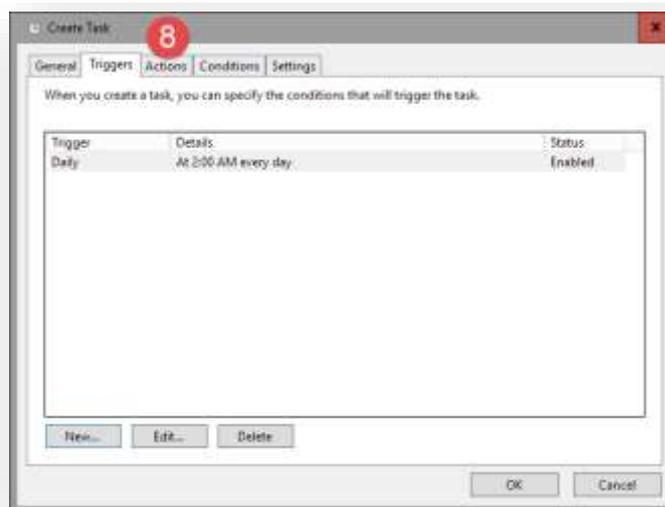


5. Select New to open the 'New Trigger' definition dialog

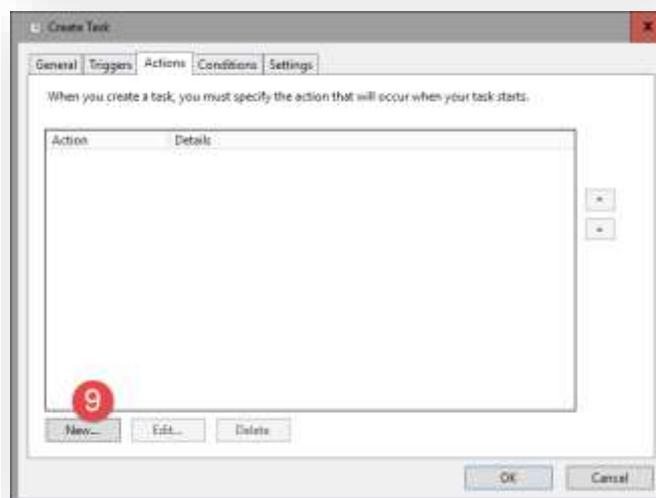


6. Set the time and frequency that the task is to run.

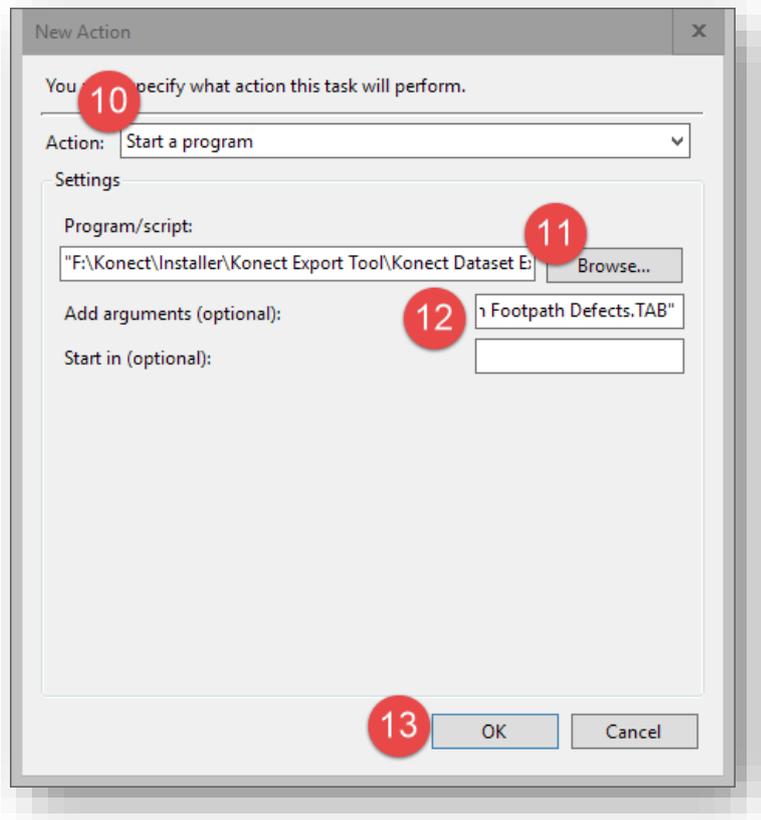
7. OK



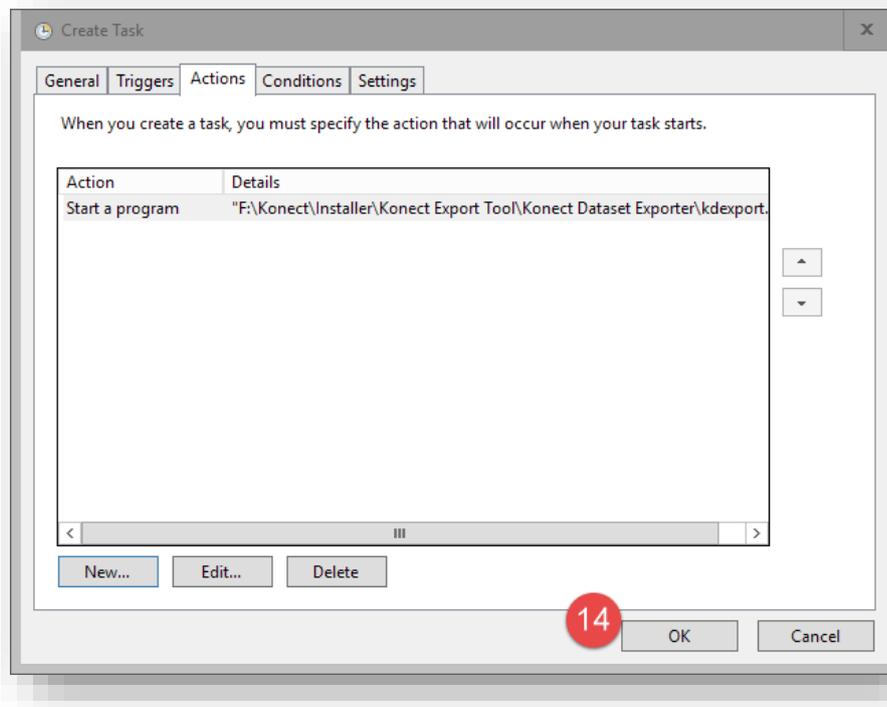
8. Go to the 'Actions' tab



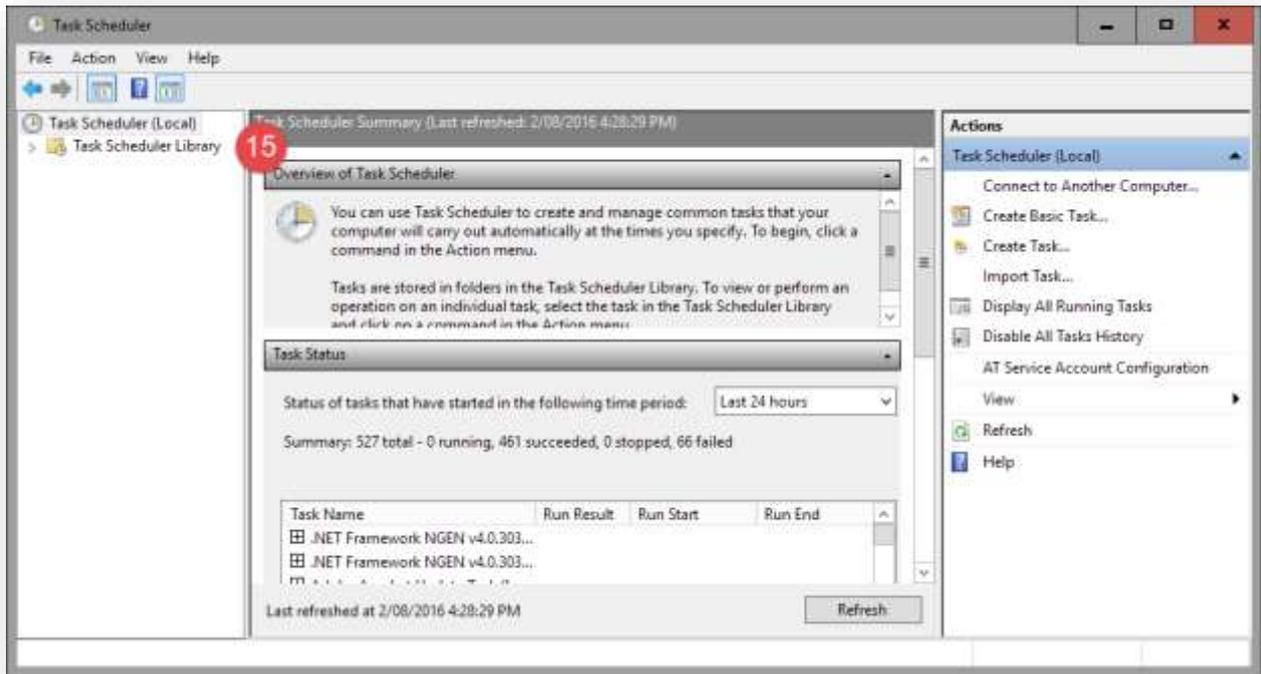
9. Select 'New'



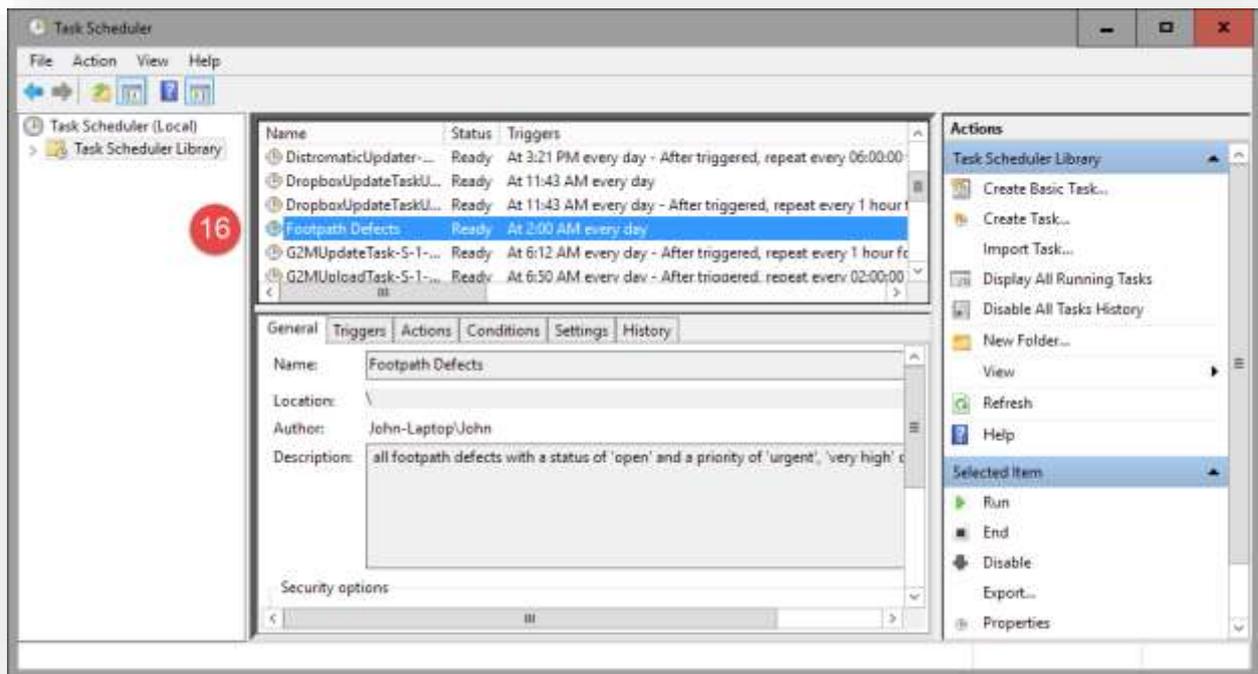
10. Set the Action to 'Start a program'.
11. Browse to the location of 'kdexport.exe' and then select 'kdexport.exe'.
12. Add all the command line arguments in the 'Add arguments' text box.
13. Press 'OK'.



14. Press 'OK'. You will return to the main Task Scheduler Window



15. Click on 'Task Scheduler Library'



16. The new task will appear in the list of tasks in the Task Scheduler