

Upload a file from Device Cloud to a Digi device via RCI

1. Upload a file to a Digi Gateway or Connect Wan router via RCI using a Task on Device Cloud.

Objective: Convert a file to Base64 and create an RCI command to upload this file to a Digi Gateway or Connect Wan router using a task on Device Cloud.

1.1 Software Requirements

- Digi Device Discovery
- Latest 2.15.X firmware or newer
- Web browser and Device Cloud account.

1.2 Hardware Requirements

- Digi ConnectPort X Gateway or Digi Connect Wan 3G.

2. Scenario

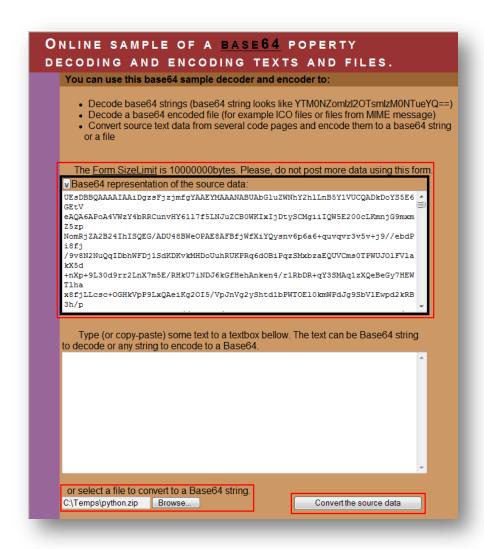
In this example we will upload the file python.zip via Device Cloud through an RCI command to a Digi Gateway or Connect Wan router. Using the previous Application guide that demonstrated how to create a scheduled task, we will use a task to send this RCI command to the Gateway.



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3. Convert the python.zip file to Base64 and upload it via RCI

- a) Make sure that the device has internet connectivity and is connected Device Cloud. The following Knowledge Base article will help troubleshooting any connection issues: http://www.digi.com/support/kbase/kbaseresultdetl?id=3211
- b) Open a web browser to http://login.etherios.co.uk (for the European Cloud)
- c) Log-in using your credentials
- d) If the device is not yet added to your account, add it by click on the "Add Devices" button under Device Manager.
- e) There are several ways to convert a file to Base64, the easiest is to use a website that will do it for you, for example: http://www.motobit.com/util/base64-decoder-encoder.asp
- f) On the web page, chose "**Select a file to convert to a Base64 string**", click "**Browse**" and select the python.zip file (or any other python file you want to upload) and click on "**Convert the source data**"
- g) Once the conversion is done, the result is shown in the window on top. This is the "Data" part that will be used in the RCI string.





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Go back to the Device Cloud web site, Create a new Schedule and chose "RCI Command"

h) Select **Embed** and past the following:

The part between <data> </data> is where the Base64 output goes.

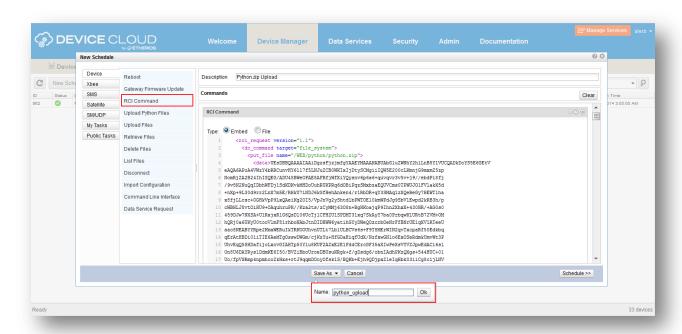
<rci_request version="1.1">: specify that this is an RCI request format

<do_command target="file_system"> : type of command and target

<put_file name="/WEB/python/python.zip"> : where to push the file and it's filename

<data></data> : raw data

i) The window should look like this:

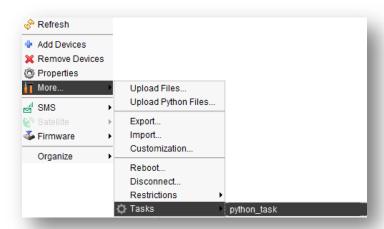


You can also create a .RCI file by pasting all the text into a blank file and saving it as .rci. then chose "File" instead of Embed



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- j) Click **Save As** and chose a name for the task
- k) Click on Schedule, select the target device and click "Run Now"
- As this task was saved, it can be run later by right clicking on a device in **Device Manager** > **Devices**, select **More** > **Tasks** > "**Task name**"



You can find further information about Schedule Tasks and Device Cloud in the Device Cloud user guide available under "**Documentation > User Guide**"

June 2013 v.1 Digi International 4 of 4