## Managing Putty sessions and uploads

## Sessions

Putty is the program that communicates between the Arduino and your PC.

In this document 'Arduino' means:

- Arduino UNO, Nano or MEGA module
- DCCNext
- LocoNext

Communication with Putty is always via a Windows COM-port.

If an Arduino is connected to an USB port Windows assigns automatically a COM-port to it.

Mostly the same COM-port is assigned to the same USB-port.

Via this COM-port you upload a program to the Arduino or communicates with a program already loaded on the Arduino. Putty uses so called *sessions* to configure the communication for a specific COM-port. The configuration for a specific session is stored in the Windows registry.

Putty communication is always started with a specific session. Putty creates a connection between the COM-port specified in that session and the Arduino. The Window header of Putty shows the name of the session. The program loaded on the Arduino starts running.



ARSIGDEC, the ARduino SIGnal dcc DECoder UNO version 4.1B Signal 1 set to aspect 1: oxxxxx Normal mode of ARSIGDEC #1 To configuration: connect USB and press 'C'

With the Arcomora management tool you can upload and create sessions for multiple Arduino's. You can use:

 A single session for all Arcomora modules.
 Use always the same USB-port, to be sure that the COM-port does not change.
 Name the session e.g. Arcomora.

Name the session e.g. Arcomora

A separate session for each module.
 Multiple sessions may share the same COM-port.

Arcomora on COM5 ARLOCO, the ARduino LocoNet feedback encoder UNO version 3.1A Specify number for this ARLOCO Enter value from 1 to 100:

**Please Note:** Putty will ALWAYS start the program on the Arduino that is connected to the COM-port specified in the session! That means that e.g. if you start a session named ArLoco with COM-port 5 and COM5 is connected to an Arduino with Mardec then Mardec will start and not ArLoco.

## **Uploading software**



After installing the Arcomora software click on the Arcomora shortcut on the desktop.

If you have previously installed Arcomora software a list of existing sessions is showed.

You can type the number to start Putty. You can also type 'N' for uploading a program to an Arduino.

Select a session	ОК
1 = Arloco (COM4)	Annuleren
N = New Upload	

If this is a new installation then the following message appears:

Click OK to start uploading an Arcomora program to your first Arduino/DCCNext/LocoNext.

Now connect your Arduino to an USB port. Or connect a DCCNext or LocoNext with the USB-CH340 interface to an USB port. Click 'Yes' to continue.

A list of available COM-ports is shown.

Type the number of the correct COM-port and click 'Ok'.



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Which program do you want to upload ?	OK
1 = Mardec	Annuleren
2 = Arsigdec	/ Indicident
4 = DCC monitor	
5 = LocoNet monitor	
6 = LocoNext	
7 - Test program DCCNevt	

To what module do you want to upload Mar The options depends on the selected progr	dec OK
1 = UNO/DCCNext 2 = MEGA2560	Annuleren
2 = MEGA2560	

<b>Oploa</b>	ad Mardec to mo	odule UNO/DCCNext on p	port CO <mark>M5</mark> ?

Now you can select which program you want to upload.

Type the number of required program and click 'Ok'

Select the connected device and click 'Ok'. Not all programs can be uploaded to all possible devices. Therefore you see only relevant devices

Now confirm you want to upload the chosen program.

Now the program is uploaded to the Arduino, DCCNext or LocoNext



The next step is to create a session for this upload.

If you uploaded to an existing session then you don't need to create a new session

After the first upload you MUST answer with 'Yes'



Enter a name for this session and click 'OK' Do NOT use space characters.



Mardec_33		$\times$
Start new session no	ow?	
Ja	Nee	

Start the session if you want to.

## Managing sessions

Start the Arcomora shortcut. A list of available sessions is showed.

Type the number of the session and click 'OK'.

Select a session	OK
1 = ARLOCO (COM4) 2 = Arsigdec (COM5) 3 = Mardec_33 (COM4)	Annuleren
N = New Upload	
Arcomora	
Arcomora Specify action for ARLOCO	ОК

Type 'S' to start Putty with the selected session. This is the default.

Type 'R' to remove the selected session.

Type 'P' to change the COM-port for the selected session.