

Testing instructions

0. Fire up Minicom & configure the serial port settings to the following: • Interface name: /dev/ttyACM0 for the TM4c123GH6PM board

- 115200bps,
- 8-bits data,

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Project information

- No parity,
- No hardware flow control.
- 1. In order to test software download via DragonBoot, we must first encrypt & digitally sign the test application :

flash flash0.app0

cp testapp/build/main.bin cryptograf;

```
cd cryptograf;
  ./cryptograf main.bin;
  cp image.bin ~;
The above steps copy the built test application to cryptograf's directory, and invoke the tool to generate a new binary "image.bin"; which is a
secured version of the original testapp. This secured image is copied to the user's home directory for ease of locating the same for upload to
```

```
DragonBoot.
  2. Next, boot the microcontroller and run the below command on the shell:
```

image. Please ensure that the packet size is set to 128 bytes. Shall wait till file transfer is initiated..." 3. Next, press Ctrl+A followed by Z, then Shift+S to initiate a file transfer from minicom. Select the "xmodem" option and key-in the name of

You'll be greeted with the following message: "Alright! Kindly use an XMODEM file transfer utility on your terminal to send a new application

- the secure application image that we'd created earlier ("image.bin"). 4. Minicom should have started file transfer while XMODEM, wait until it finishes. Ensure that no keyboard keys are pressed during file upload,
- since the tool is still sensitive to key presses (which might interfere with the UART file transfer). 5. Once the file transfer is completed, you'll get a message like below:
- "Transfer complete. READY: press any key to continue"

Wait for another 3-5s and then press the "Enter" / "Return" key.

boot flash0.app0

6. Next, run the following command to boot the application that you'd just downloaded:

You should see your application run (hopefully!) and see LED(s) blink if the default test app has been used.

again!). 8. Feel free to play around with other commands implemented on DragonBoot, you can get a full list of the same along with their syntax by

7. To exit the application, you'll have to hard-reset the microcontroller to reboot the same (and greet you with the DragonBoot console once

simply typing the below command on the DragonBoot console:

```
help
```

Also, you can use the TAB auto-complete feature to help you with the syntax of the commands implemented for the console. For additional details, take a look at the document "docs/DragonBoot_UserGuide.pdf".

Cheers, have fun!