TECHNOTE [10/2014]

DATE: January, 2014
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PRODUCT/AREA: Encode

Change Duali De 620 to work in PC/SC mode

In order to use Mifare PC/SC Command on a Duali encoder, the encoder should have a minimum firmware version “DE-620_NFC_131217”

1 - Open DualCard.exe application.

If the reader displays with PCSC on it’s name, please skip to step 3.

2 - If your reader does not display with PCSC on it’s name:

Connect to your encoder, and go to the “Util” tab. On this tab select “PCSC RF Mode” on the “Change Mode” Combobox, and press the button “Change Mode”
3. After a successful mode change, your encoder name will change to a string containing the word “PCSC”.

Now click on the tab “PCSC”. 

For the next steps you will need to place a Mifare card near your encoder.

4. Click on ‘Find Reader’ button, and select your encoder from the list.

5. Click “Connect”. **Make sure the Mifare card is in place.**

6. On the Transaction DATA Edit Box, type the following command ‘FE15FEF020401’ without the quotes.

7. Click on “SCardTransmit” button.
8 - Click on "Disconnect" button
9 - Close the application.

Now, the encoder should work with the Standard PC/SC Mode and ATR recognition.

10. Open cardPresso. The encoder should now be detected as a PCSC encoder on cardPresso's internal list.

To test it, you may run the following script:

```javascript
// maximum waiting time for the card to be present
let card.timeout=30;

// during printing each card must be different from the previous
let card.checkForDuplicates=true;

// MIFARE.CLASSIC
let card.waitForPresent("MIFARE.CLASSIC");

// MEDIA TYPE:
let log("MEDIA TYPE:"+card.mediaType);

// MEDIA S/N:
let log("MEDIA S/N :"+card.UID);

// MEDIA S/N reversed:
let log("MEDIA S/N reversed:"+card.UID_LSB);

// Encrypt key
let mifare.key("A","FFFFFFFFFFFFF");

// Write data
let mifare.write(0,1, "CARDPRESSO_DUALI");

// Read data
let log(mifare.read(0,1).toUTF8());

// Obtain UID
let card.UID;
```
After running the script, the output should be similar to:

```
ENCODE OPERATIONS

MEDIA TYPE: CONTACTLESS.MIFARE.CLASSIC.1K
MEDIA S/N: 0052F49635
MEDIA S/N reversed: 3596F4520D
CARDPRESSO_DUALI

CONTACTLESS  OUTPUT
Line 1
```