

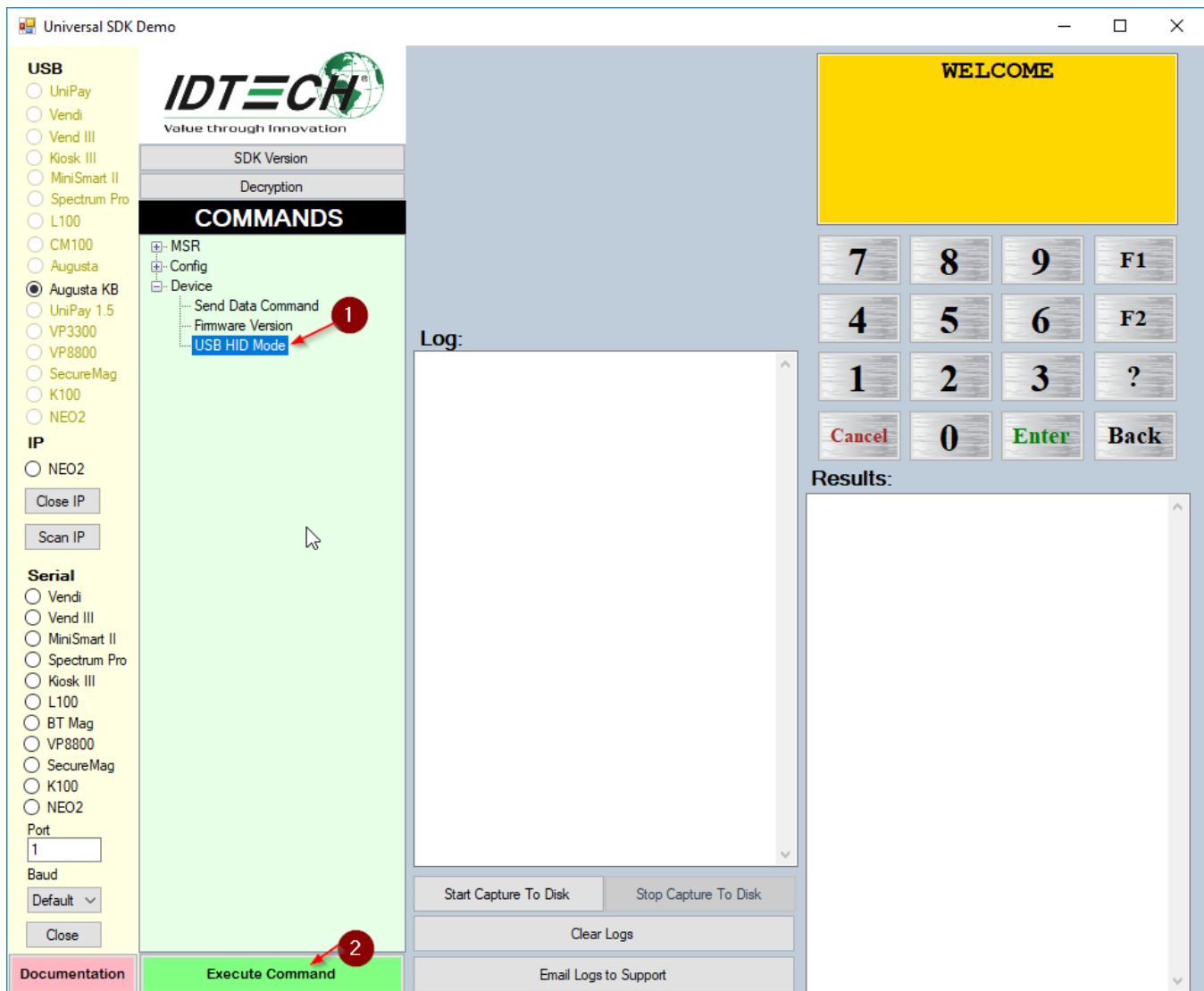
How Do I Enable/Disable Quick Chip for KeyBoard Emulation (QCKB) on the Augusta?

Augusta Quickchip allows for an EMV transaction through Keyboard emulation. This guide covers how to initially configure the Augusta for quick chip.

To enable Quick Chip Keyboard Emulation Mode, follow the instructions below. To disable Chip Keyboard Emulation Mode and return the Augusta to "normal mode" click [here](#).

Step 1: Configure the device while in USB-HID Mode:

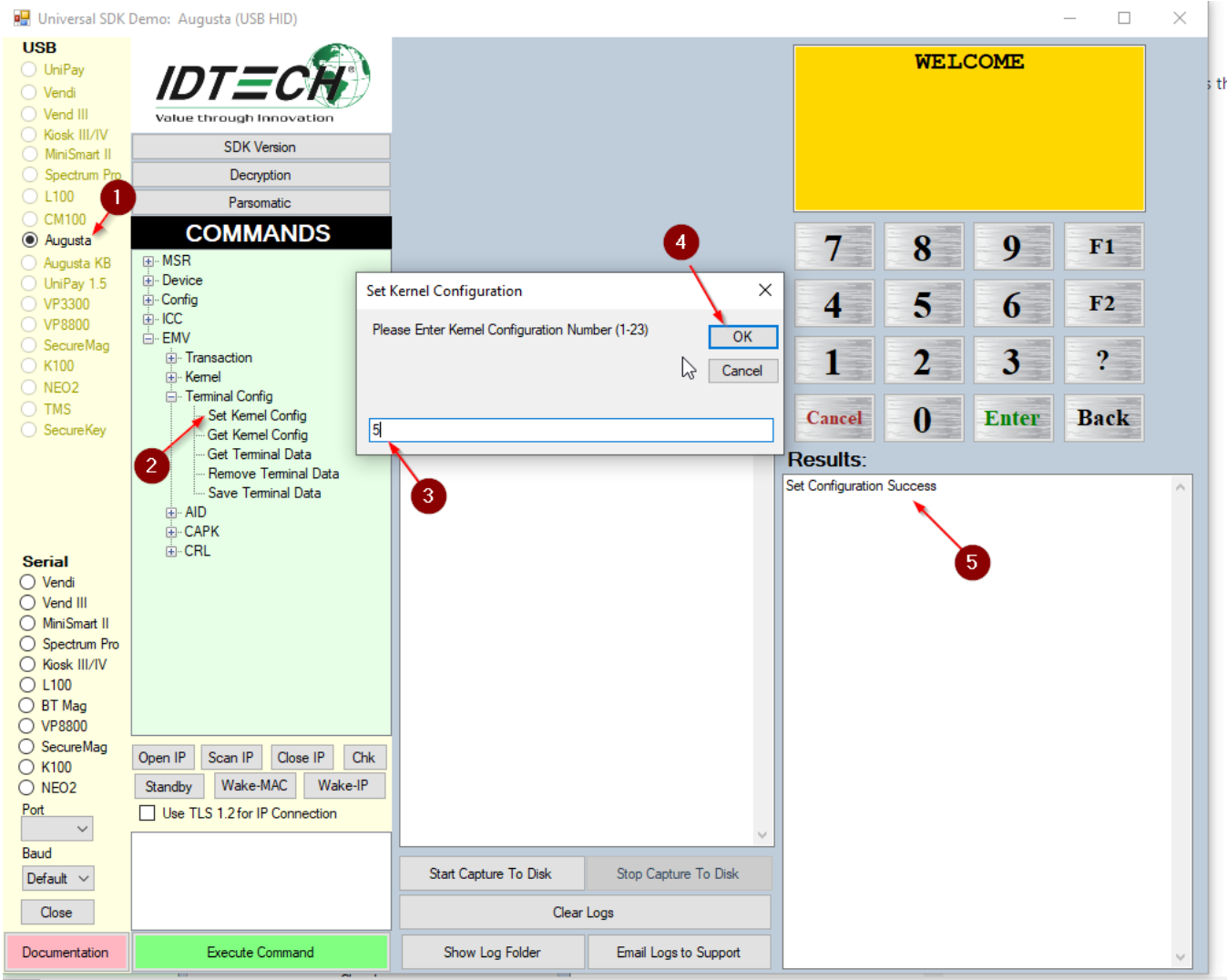
If your unit is being identified as "Augusta KB" as shown below when you launch the uDemo, please follow the 2 steps show in the screenshot below to set it to the USB-HID mode first:



And then proceed with the following steps

Step 1.1

Set the device to support ICS type – 5C by clicking the "Set Kernel Config" first and then follow the steps as shown in the screenshot below and make sure the "Success" result shows up in the Results window. This sets the device to major configuration 5C.



Step 1.2

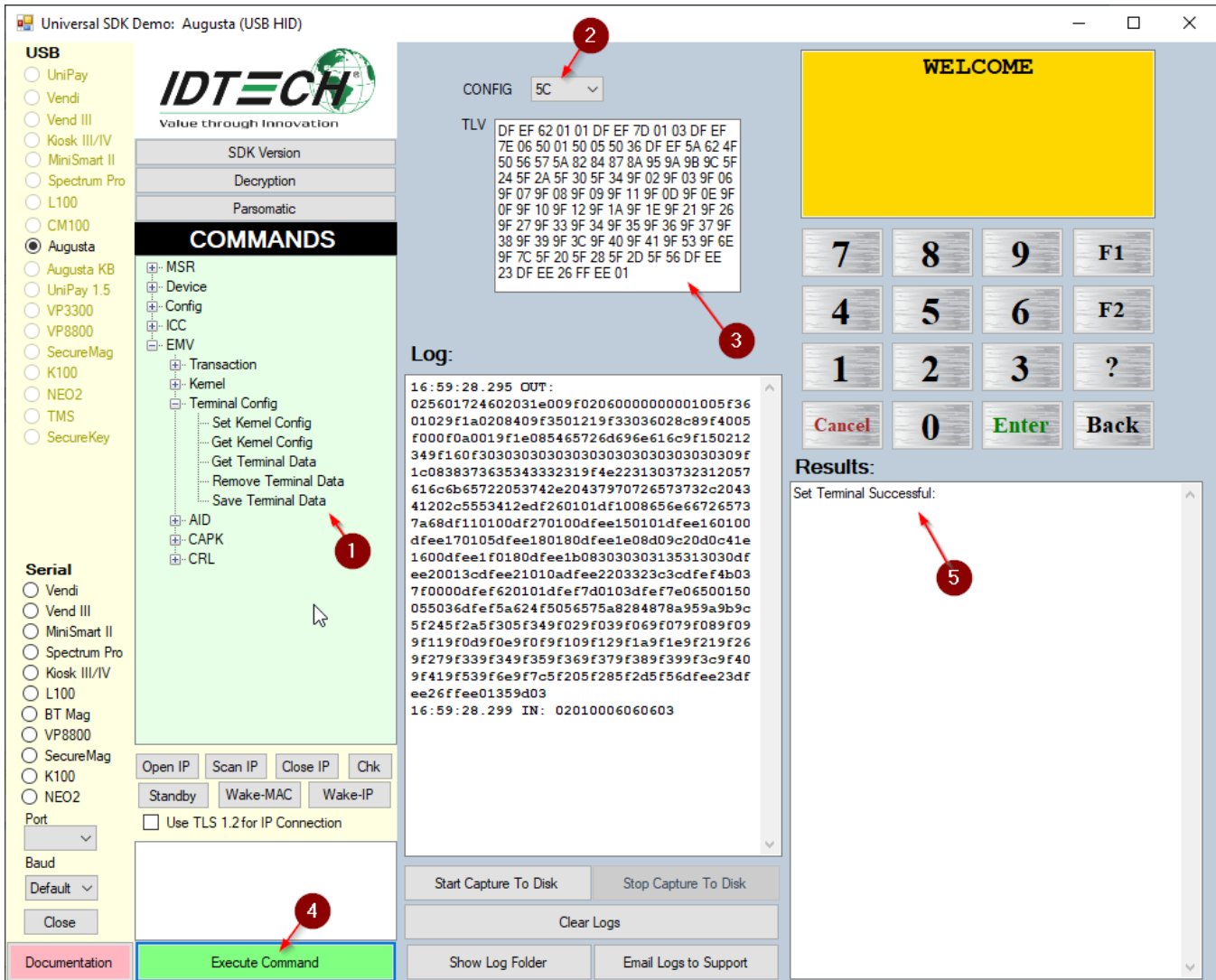
Set the 5C Terminal Data on the device by following the numbered sequences in the screenshot below. The device will provide some default data that you can use, but we will use this below payload instead by copying and pasting the string below into the 'TLV' box and click the green colored "Execute Command" button:

```

9F 02 06 00 00 00 00 01 00 5F 36 01 02 9F 1A 02 08 40 9F 35 01 21 9F 33 03 60 28 C8 9F 40 05 F0 00 F0 A0 01 9F 1E 08 54 65 72 6D 69 6E 61 6C 9F
15 02 12 34 9F 16 0F 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 9F 1C 08 38 37 36 35 34 33 32 31 9F 4E 22 31 30 37 32 31 20 57 61 6C 6B 65 72
20 53 74 2E 20 43 79 70 72 65 73 73 2C 20 43 41 20 2C 55 53 41 2E DF 26 01 01 DF 10 08 65 6E 66 72 65 73 7A 68 DF 11 01 00 DF 27 01 00 DF EE
15 01 01 DF EE 16 01 00 DF EE 17 01 05 DF EE 18 01 80 DF EE 1E 08 D0 9C 20 D0 C4 1E 16 00 DF EE 1F 01 80 DF EE 1B 08 30 30 30 31 35 31 30
30 DF EE 20 01 3C DF EE 21 01 0A DF EE 22 03 32 3C 3C DF EF 4B 03 7F 00 00 DF EF 62 01 01 DF EF 7D 01 03 DF EF 7E 06 50 01 50 05 50 36 DF
EF 5A 62 4F 50 56 57 5A 82 84 87 8A 95 9A 9B 9C 5F 24 5F 2A 5F 30 5F 34 9F 02 9F 03 9F 06 9F 07 9F 08 9F 09 9F 11 9F 0D 9F 0E 9F 0F 9F 10 9F
12 9F 1A 9F 1E 9F 21 9F 26 9F 27 9F 33 9F 34 9F 35 9F 36 9F 37 9F 38 9F 39 9F 3C 9F 40 9F 41 9F 53 9F 6E 9F 7C 5F 20 5F 28 5F 2D 5F 56 DF EE
23 DF EE 26 FF EE 01

```

Last updated: 09 Sep 2017



Make sure that you see the "Set Terminal Successful" response in the Results window. If it errors out, try the 4 steps again until you have a success.

Next, you want to set some default AID, or 'Application Data'. This will allow the Augusta to take cards from the different brands. Run the 'Load Default AID' command.

Double click the "Load Default AID" as shown below and verify the Results to be successful.

USB

- UniPay
- Vendi
- Vend III
- Kiosk III
- MiniSmart II
- Spectrum Pro
- L100
- CM100
- Augusta**
- Augusta KB
- UniPay 1.5
- VP3300
- VP8800
- SecureMag
- K100
- NEO2


Serial

- Vendi
- Vend III
- MiniSmart II
- Spectrum Pro
- Kiosk III
- L100
- BT Mag
- VP8800
- SecureMag
- K100
- NEO2

Port
1

Baud
9600

Close



Value through Innovation

SDK Version

Decryption

COMMANDS

- MSR
- Device
- Config
- ICC
- EMV
 - Transaction
 - Kernel
 - Terminal Config
 - AID
 - Retrieve AID
 - Remove AID
 - List AID
 - Save AID
 - Remove All AID
 - Load Default AID**
 - CAPK
 - Retrieve CAPK
 - Remove CAPK
 - List CAPK
 - Save CAPK
 - Remove All CAPK
 - Load Default CAPK
 - Load CAPK From Disk
 - CRL

AID:

TLV:

Log:

```

11:49:06.179 OUT:
025f00724601030600a000000025010e005f5701
005f2a0208409f090200015f3601029f1b040000
3a98df25039f3704df28039f0802dfee150101df
1305000000000df1405000000000df15050000
00000df180100df170400002710df1901007375
03
11:49:06.182 IN: 02010006060603
11:49:06.184 OUT:
026000724601030700a00000015230100e005f57
01005f2a0208409f090200015f3601029f1b0400
003a98df25039f3704df28039f0802dfee150101
df1305000000000df1405000000000df150500
0000000df180100df170400002710df19010025
e303
11:49:06.187 IN: 02010006060603
11:49:06.191 OUT:
026000724601030700a00000015240100e005f57
01005f2a0208409f090200015f3601029f1b0400
003a98df25039f3704df28039f0802dfee150101
df1305000000000df1405000000000df150500
0000000df180100df170400002710df19010055
f303
11:49:06.196 IN: 02010006060603
                    
```

Start Capture To Disk Stop Capture To Disk

Clear Logs

Email Logs to Support

WELCOME

7	8	9	F1
4	5	6	F2
1	2	3	?
Cancel	0	Enter	Back

Results:

```

Please Wait. Loading Default AID...
Default AID Successful
                    
```

Next, you want to load some sample public keys. These are used by the brands to verify the terminal. Select the 'Load Default CAPK' command. Double click the "Load Default CAPK" as shown below and verify the successful response in the Results window.

IDTECH
Value through Innovation

USB

- UniPay
- Vendi
- Vend III
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- MiniSmart II
- Spectrum Pro
- L100
- CM100
- Augusta**
- Augusta KB
- UniPay 1.5
- VP3300
- VP8800
- SecureMag
- K100
- NEO2

Serial

- Vendi
- Vend III
- MiniSmart II
- Spectrum Pro
- Kiosk III
- L100
- BT Mag
- VP8800
- SecureMag
- K100
- NEO2

Port:

Baud:

COMMANDS

- MSR
- Device
- Config
- ICC
- EMV
 - Transaction
 - Kernel
 - Terminal Config
 - AID
 - CAPK
 - Retrieve CAPK
 - Remove CAPK
 - List CAPK
 - Save CAPK
 - Remove All CAPK
 - Load Default CAPK**
 - Load CAPK From Disk
- CRL

SDK Version

Decryption

DATA

```
a000009999e10101f8707b9bedf031e58
a9f843631b90c90d80ed69500000037
00099c5b70aa61b44c51b6f90b0e3bfb
7a3ee0e7db41bc466888b3ec9e9977c7
62407ef1d79e0afb2823100a020c3e802
0593db50e90dbeac18b78d13f96bb2f57
eeddc30f256592417cdf739ca6804a10a
29d2806e774bfa751f22cf3b65b38f379
1b4daf8aec9b803f7610e06ac9e6b
```

Log:

```
cfe3313708bed0c98e1c589b0f53cf6d7e829fcd
906d21a90fd4cb6baf13110c4685107c27e00981
db29dc0ac186e6d701577f23865626244e1f9b2c
d1ddfcb9e899b41f5084d8ccc178a7c3f4546cf9
3187106fab055a7ac67df62e778cb88823ba58cf
7546c2b09f0000ec0e03
11:48:45.229 IN: 02010006060603
11:48:45.231 OUT:
02200172460403a000000333c10101b6372db991
9f8c6c9c88e83d3c600a4ad8adc7a900010001f8
0092f083cbe46f8dccc04e498ba9952ba9d4c09
c80dd277e579f07e45772846fa43dd3ab31cc6b0
8dd18695715949fb108e53a071d393a7fddb9c5
fb0b0507138797317480fc48d633ed38b401a451
443ad7f15facda45a62abe24ff6343add0909ea8
389348e54e26f842880d1a69f9214368ba30c18d
e5c5e0cb9253b5abc55fb6ef0a738d927494a30b
bf82e340285363b6faa15673829dbb210e7110da5
8ee9e578e7ce55dc812ab7d6dccc0e3b1ae179d6
64f3356eb951e3c91a1cbbf6a7ca8d0c7ec9c6af
7a4941c5051099b9784e56c9162067b8c3b15c5f
a4480a645cd2526a69c80ba8ef361be2aa9417de
fce35b62b0c9cf097d00007b4f03
11:48:45.235 IN: 02010006060603
```

WELCOME

7	8	9	F1
4	5	6	F2
1	2	3	?
Cancel	0	Enter	Back

Results:

```
Please Wait. Loading Default CAPK...
Load Default CAPK Successful:
```

Step 1.3

We need to send a low level command to enable the QuickChip Keyboard behavior on the device. You can select 'Send Data Command' to bring up this interface.

This allows you to push commands directly to the Augusta that may not be included in this utility. Our commands use the 'NGA' protocol.

The command Body is: 72 53 01 29 01 31

Follow the numbered steps shown in the screenshot below and click the green colored "Execute Command" button and verify the success response as shown below:

IDTECH
Value through Innovation

USB

- UniPay
- Vendi
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- L100
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- VP8800
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- K100
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Serial

- Vendi
- Vend III
- MiniSmart II
- Spectrum Pro
- Kiosk III
- L100
- BT Mag
- VP8800
- SecureMag
- K100
- NEO2

Port: 1

Baud: 9600

Close

COMMANDS

- MSR
 - Device
 - Reboot Device
 - Send Data Command**
 - Firmware Version
 - Beep for 3 Seconds
 - LED On
 - LED OFF
 - LED Blink
 - ICC LED On
 - ICC LED Off
 - ICC LED Blink
 - Set Date/Time
 - Get Key Status
 - USB KB Mode
 - Execute RKI
 - Update Device Firmware
 - Config
 - ICC
 - EMV
 - Transaction
 - Kernel
 - Terminal Config
 - AID
 - Retrieve AID
 - Remove AID
 - List AID
 - Save AID
 - Remove All AID
 - Load Default AID
 - CAPK
 - Retrieve CAPK
 - Remove CAPK

SDK Version

Decryption

Raw Wrap NGA Wrap ITP

72 53 01 29 01 31

Timeout (ms) 3000

Don't Wait For Response

Log:

```
11:50:02.826 OUT:
020600725301290131392103
11:50:02.827 IN: 02010006060603
```

WELCOME

7 8 9 F1

4 5 6 F2

1 2 3 ?

Cancel 0 Enter Back

Results:

```
Send Command Response HEX: 06
Send Command Response ASCII: ?
```

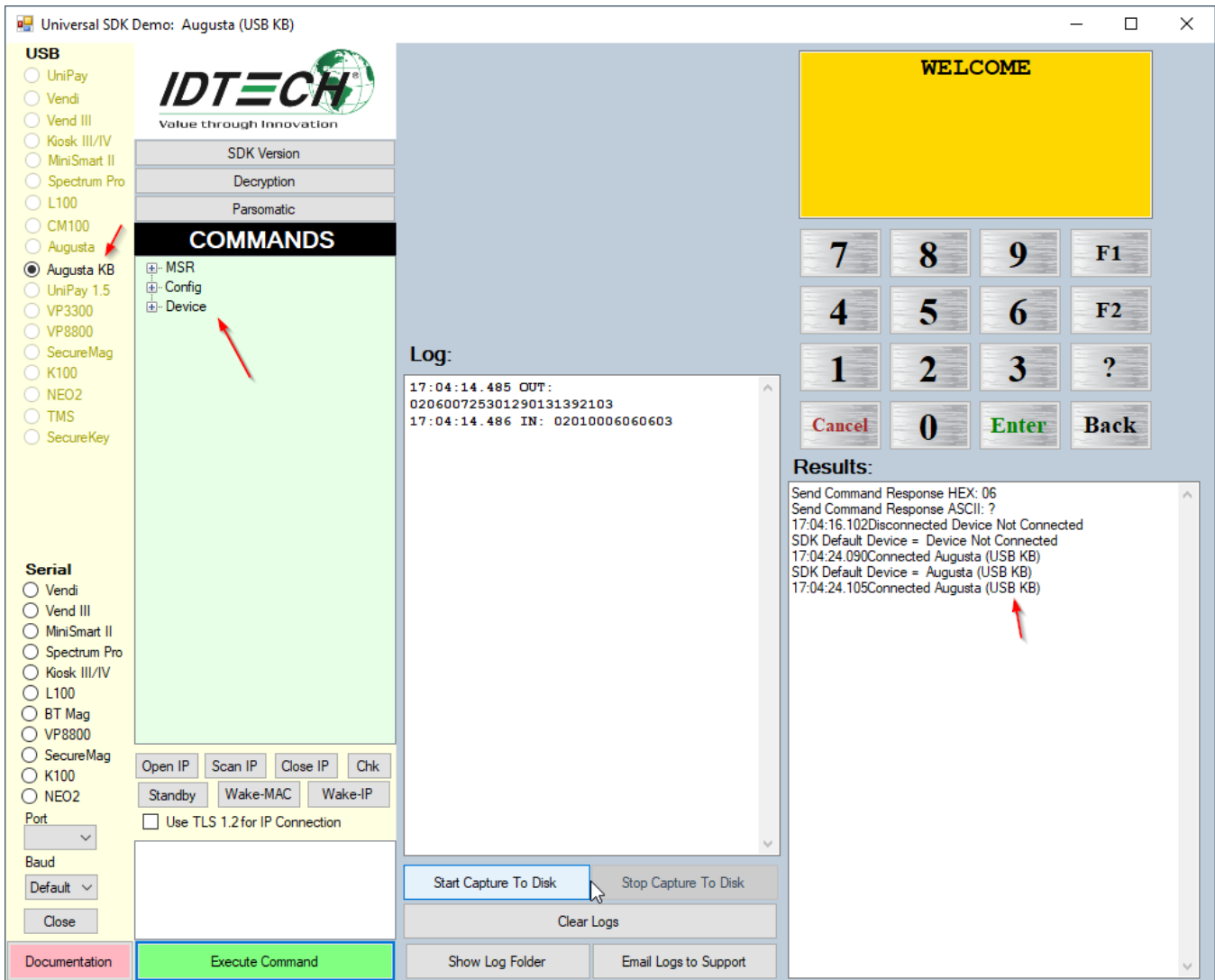
Start Capture To Disk Stop Capture To Disk

Clear Logs

Email Logs to Support

Documentation Execute Command

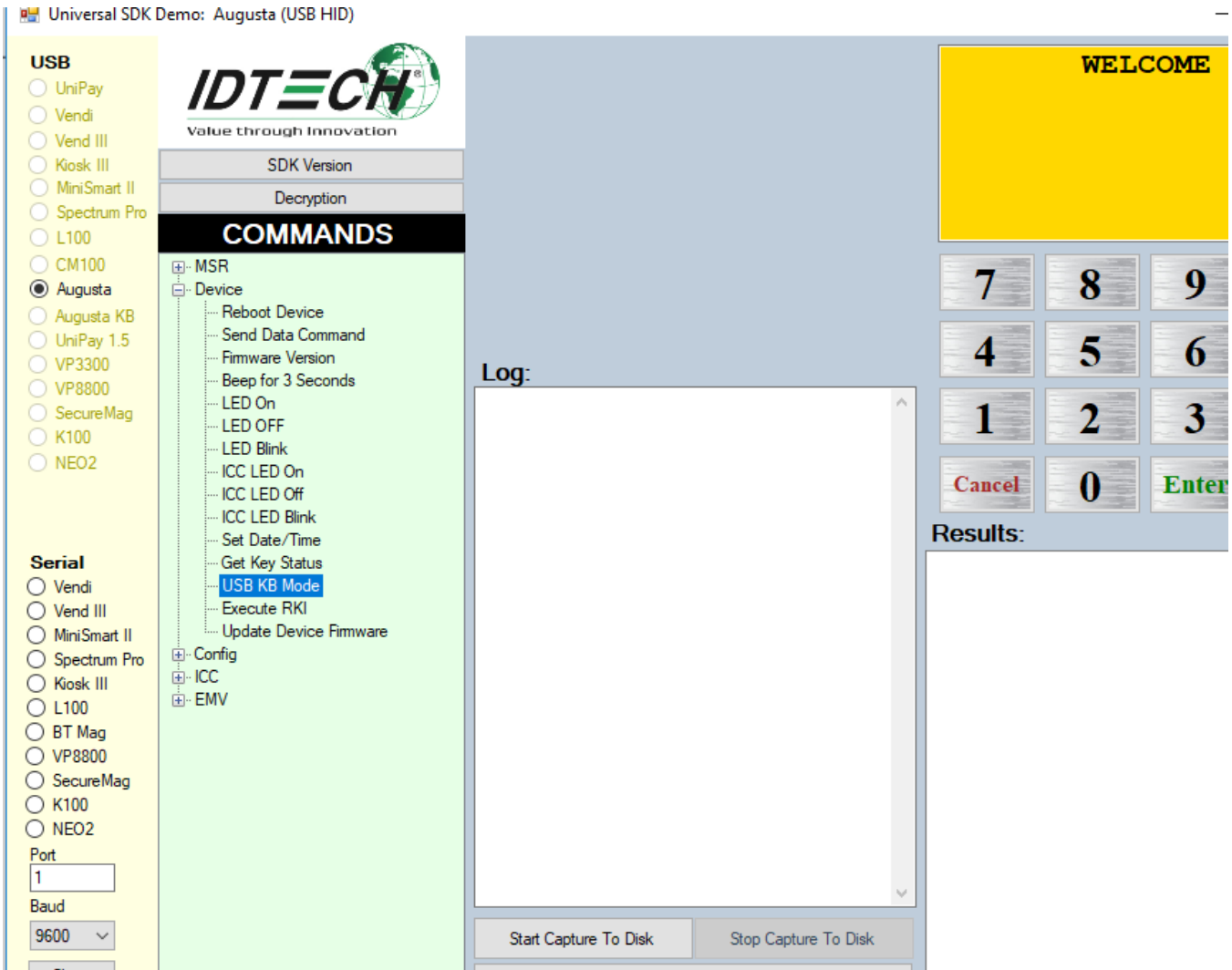
This command will set the reader automatically to the USB KB mode most of the time in uDemo. If it does, you will get to this one below:



Step 2: Change the Interface

If the Device is not converted to the USB-KB interface automatically after the above command is sent, you can do this to set the device to the USB-KB interface.

The device will only allow a chip card insert in KB mode after these changes.



Step 3: – Try a Chip Card Transaction!

Please use a text editing program, such as Notepad, to see the keyboard output from the Augusta.

Insert an ICC Card! The device will automatically implement an EMV L2 Transaction and then output data in the USB-KB interface. Once the transaction finishes, the 4 blue LEDs will starts blinking and the beep will sound to remind you to remove the card from the slot.

Sample data might look like this:

```
DFEE250202034F07A000000004101050104465626974204D617374657243617264560057135128570146494115D19126220000000000000F5A0851285
70146494115820239008407A00000000410108701018A025A33950504200000009A031709139B02E8009C01005F24031912315F2A0208405F30005F34
01009F02060000000001009F030600000000000009F0607A00000000410109F070229009F080200029F090200029F1101019F0D05BC50BC08009F0E050
000000009F0F05BC70BC98009F12104465626974204D6173746572436172649F1A0208409F1E085465726D696E616C9F21031155429F33036028C89
F34031E03009F3501219F360200ED9F3704E22254F39F38009F3901059F3C009F4005F000F0A0019F4104000001869F5301529F6E009F7C005F200E4
3484950205445535420434152445F280208405F2D02656E5F5600DFEE2300DFEE2600FEE01009F260849CAACE3DF35AE3B9F2701809F10120010A
000052204000000000000000000000FFDFEF4C06002700100000DFEF4D373B353132383537303134363439343131353D313931323632323030303030
303030303030303F35313238353730313436343934313135
```

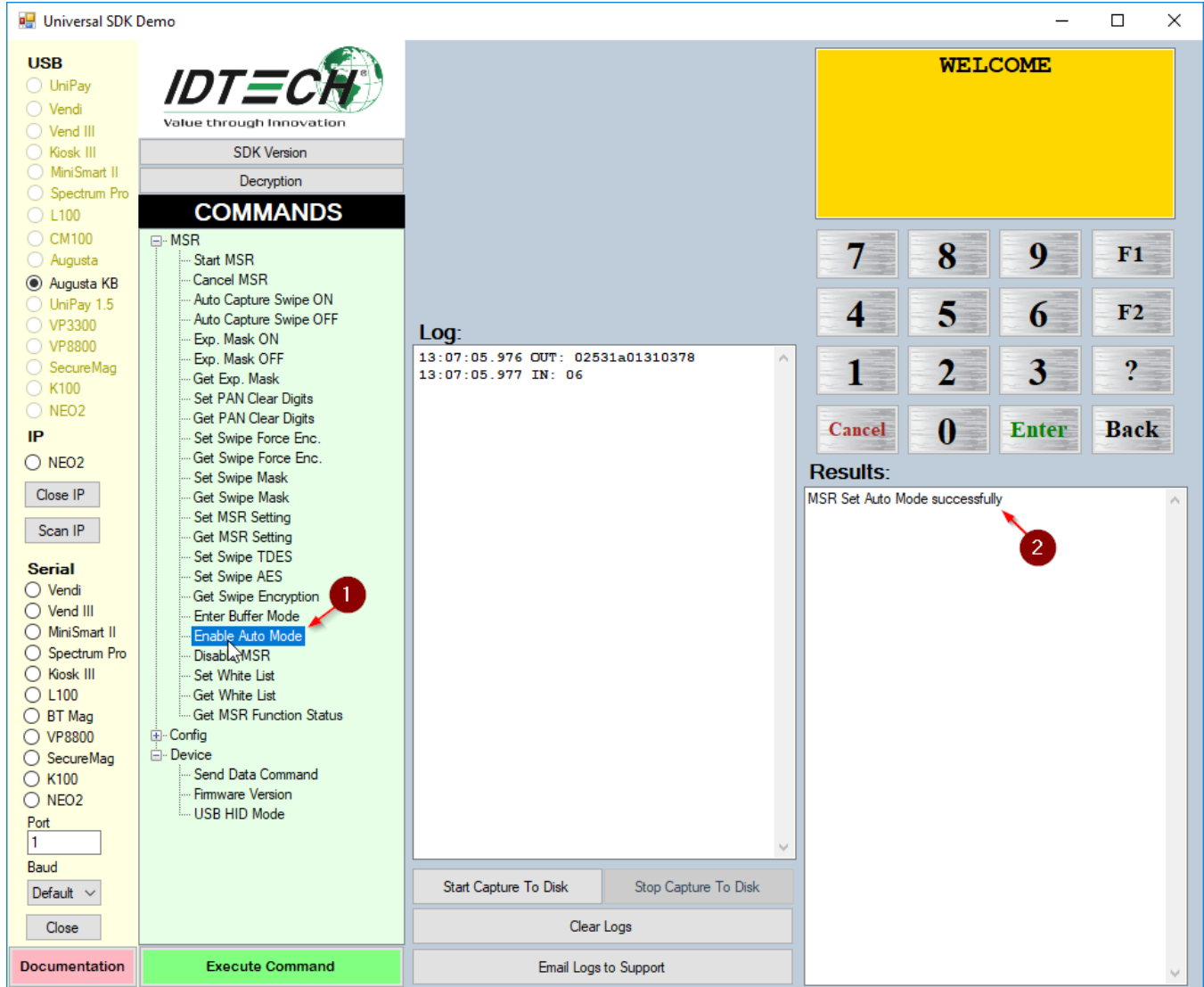
You can parse this output data out in our Parsomatic tool:

<https://www.idtechproducts.com/hosted-files/tools/parsomatic.html>

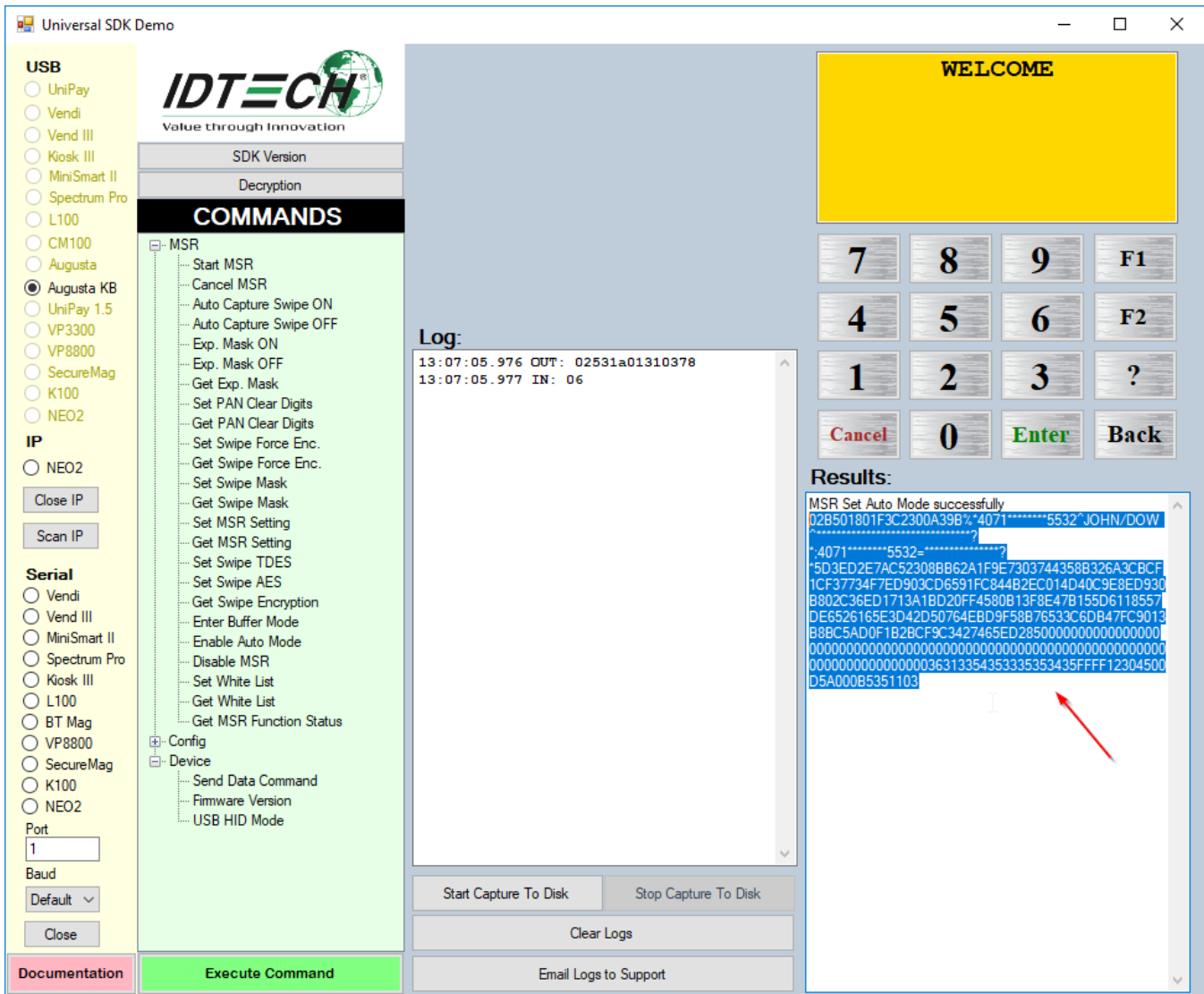
Common Questions: (In Progress)

How do I swipe a card in the Augusta? No feedback when I do that?

For swiping: If you don't see data output for an MSR read when in KB mode: in the COMMANDS execute the command MSR -> Enable Auto Mode (as show below)



Then set the cursor in the Results window and test swiping a credit card through the slot, you should see the magnetic card data shows up (as highlighted below)



How do I configure ICC Postamble?

For QuickChip, the postamble can be set using "Set QuickChip mode USB-KB output data postfix" command.

72 53 01 2A <length> <postfix data>

length is 1 byte; length of postfix data; size is 0-8; default is 0

postfix data is 1-8 byte data

ex) adding a carriage return; 020600*7253012a010d*06fe03 (characters outside of the asterisks will be included in the wrapper for Send Data Command in Augusta HID Mode)

To disable Chip Keyboard Emulation Mode and return the Augusta to "normal mode" follow the steps below:

1. Switch the reader back to USB HID mode
2. Send the command: 72 53 01 29 01 30
3. Set to mode 2C
4. Save 2C terminal configuration
5. Reboot device

Device should be functioning in standard mode (QC KB not enabled). Refer to [How to do an EMV transaction test with the Augusta/Augusta S in USB HID mode?](#) as needed.

[Augusta \(IDEM-2XXAA-ZZ\) - Home](#)