The following are usage examples for the Python scripts:

disconnect.py

Sends a SCI disconnect request to device <device_id> and then displays the device's SCI response.

Usage:

```
> python disconnect.py <username> <password> <device_id>
```

Example response:

Response for device id 00000000-00000000-00409DFF-FF3739BB:

```
<sci_reply version="1.0"><disconnect><device id="00000000-00000000-00409DFF-
FF3739BB"><disconnected/></device></disconnect></sci_reply>
```

device_request.py

Sends a data service device request to device <device_id> using target_name "myTarget", data payload "My device request data" and then displays the device's SCI response.

Usage:

```
> python device_request.py <username> <password> <device_id>
```

Example response:

Response for device id 00000000-00000000-00409DFF-FF3739BB:

```
<sci_reply version="1.0"><data_service><device id="00000000-00000000-
00409DFF-FF3739BB"><requests><device_request target_name="myTarget"
status="0">My device response
data</device_request></requests></device></data_service></sci_reply>
```

get_file.py

Retrieves the send_data sample application file test/test.txt for device <device_id> and then displays the contents of the file retrieved. Note the file has the string "iDigi data service sample"

Usage:

```
> python get_file.py <username> <password> <device_id>
```

Note in this case, the device_id must contain the 16 leading zeros, for instance: 00000000-00000000-00409DFF-FF3739BB.

Example response:

```
iDigi data service sample
```

query_firmware.py

Retrieves the critical firmware download information from device <device_id>, and then displays the devices SCI reply which includes the firmware target number, image name, file pattern, version and maximum size allowed.

Usage:

```
> python query_firmware.py <username> <password> <device_id>
```

Example response:

Response for device id 00000000-00000000-00409DFF-FF3739BB:

```
<sci_reply version="1.0"><query_firmware_targets><device id="00000000-
00000000-00409DFF-FF3739BB"><targets><target number="0"><name>Library
Image</name><pattern>.*\.a</pattern><version>1.0.0.0</version><code_size>429
4967295</code_size></target><target number="1"><name>Binary
Image</name><pattern>.*\.[bB][iI][nN]</pattern><version>0.0.1.0</version><co
de_size>4294967295</code_size></target></targets></device></query_firmware_t
argets></sci_reply>
```

update_firmware.py

Connects to device <device_id> and downloads the local file image.a as target 0 image. It then displays the iDigi Cloud SCI response Retrieves the send_data sample application file test/test.txt and then displays the contents of the file.

Note: you must create an image.a file in the directory where you run the script.

Usage:

```
> python update_firmware.py <username> <password> <device_id>
```

Example response:

Response for device id 00000000-00000000-00409DFF-FF3739BB:

```
<sci_reply version="1.0"><update_firmware><device id="00000000-00000000-
00409DFF-FF3739BB"><submitted/></device></update_firmware></sci_reply>
```

file_system.py

Writes, reads, and lists the file_system sample application file test_file.txt to device <device_id> and then displays the device's SCI response, which includes the file contents in the data payload, as well as the hash, path, and last modified information of the file.

Usage:

```
> python file_system.py <username> <password> <device_id>
```

Example response:

Response for device id 00000000-00000000-00409DFF-FF3739BB:

```
<sci_reply version="1.0"><file_system><device id="00000000-00000000-
00409DFF-
FF3739BB"><commands><put_file/><get_file><data>aURpZ2kgZmlsZSBzeXN0ZW0gc2Ftc
GxlCg==</data></get_file><ls hash="none"><file path="test_file.txt"
last_modified="1342798020"
size="25"/></ls></commands></device></file_system></sci_reply>
iDigi file system sample
```