

Secure Passthrough Tab

<input checked="" type="checkbox"/>	Run	Sequence	Command
<input checked="" type="checkbox"/>	-->	Get SN (12-01)	12 01
<input checked="" type="checkbox"/>	-->	SMFG Set White List (91-13)	91 13
<input checked="" type="checkbox"/>	-->	SMFG Secure Task Control	90 07 ??
<input checked="" type="checkbox"/>	-->	Get White List (2C-51)	2C 51
<input checked="" type="checkbox"/>	-->	UMFG Secure Task Control	90 07 ??
<input checked="" type="checkbox"/>	-->	UMFG Device Reset	90 00
<input checked="" type="checkbox"/>	-->	Set Serial Number	90 10 ?? ?? ?? ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	-->	UMFG Set UTC	90 01 ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	-->	UMFG Activate	90 02 00
<input checked="" type="checkbox"/>	-->	Load certificates	90 03
<input checked="" type="checkbox"/>	-->	UMFG Validate Certificate Tree	90 04
<input checked="" type="checkbox"/>	-->	UMFG Lock	90 05
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	Get Device Nonce (91-08)	91 08 00
<input checked="" type="checkbox"/>	-->	Restart (77-05)	77 05
<input checked="" type="checkbox"/>	-->	UMFG Device Reset	90 00
<input checked="" type="checkbox"/>	-->	Set Serial Number	90 10 ?? ?? ?? ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	-->	UMFG Set UTC	90 01 ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	-->	UMFG Activate	90 02 00
<input checked="" type="checkbox"/>	-->	Load certificates	90 03 **
<input checked="" type="checkbox"/>	-->	UMFG Validate Certificate Tree	90 04
<input checked="" type="checkbox"/>	-->	UMFG Lock	90 05
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	SMFG Clear White List (91-14)	91 14
<input checked="" type="checkbox"/>	-->	Get SN (12-01)	12 01
<input checked="" type="checkbox"/>	-->	Get Device Nonce (91-08)	91 08 00
<input checked="" type="checkbox"/>	-->	Restart (77-05)	77 05
<input checked="" type="checkbox"/>	-->	SMFG Master Reset (91-00)	91 00
<input checked="" type="checkbox"/>	-->	Get Firmware Version (29-00)	29 00
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	Load KEK	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	-->	Load DEK KSN:3333	78 46 F3 B4 00 A6 00 30 81 A3 02 C
<input checked="" type="checkbox"/>	-->	Load PEK KSN:4444	78 46 F3 B4 00 A6 00 30 81 A3 02 C

<input checked="" type="checkbox"/>	Run	File
<input checked="" type="checkbox"/>	-->	PassThrough_ExchangeCLDe

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UMFG Device Reset
TX:56 69 56 4F 74 65 63 68 32 00 90 00 00 00 78 A2
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVotech2??
??e?
Time Spent:5MS
Result:NG

2020-05-13 11:55:35 : 034 MS
Set Serial Number
TX:56 69 56 4F 74 65 63 68 32 00 90 10 00 00 1B E1
RX:56 69 56 4F 74 65 63 68 32 00 90 07 00 00 27 E8
RX-ASCII:ViVotech2??
??e?
Time Spent:3MS
Result:NG

2020-05-13 11:57:32 : 233 MS
Set Serial Number
TX:56 69 56 4F 74 65 63 68 32 00 90 10 00 0A 39 31 39 54 37 36 34 35 32 31 40 9D
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVotech2??
??e?
Time Spent:5MS
Result:NG

2020-05-13 11:57:41 : 662 MS
UMFG Set UTC
TX:56 69 56 4F 74 65 63 68 32 00 90 01 00 00 48 95
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVotech2??
??e?
Time Spent:3MS
Result:NG

2020-05-13 11:59:03 : 442 MS
UMFG Activate
TX:56 69 56 4F 74 65 63 68 32 00 90 02 00 01 00 F1 33
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVotech2??
??e?
Time Spent:4MS
Result:NG

2020-05-13 11:59:12 : 669 MS
Load certificates
TX:56 69 56 4F 74 65 63 68 32 00 90 03 00 00 28 FB
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVotech2??
??e?

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<input checked="" type="checkbox"/>	Run	Sequence	Command
<input checked="" type="checkbox"/>	-->	Load certificates	90 03
<input checked="" type="checkbox"/>	-->	UMFG Validate Certificate Tree	90 04
<input checked="" type="checkbox"/>	-->	UMFG Lock	90 05
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	Get Device Nonce (91-08)	91 08 00
<input checked="" type="checkbox"/>	-->	Restart (77-05)	77 05
<input checked="" type="checkbox"/>	-->	UMFG Device Reset	90 00
<input checked="" type="checkbox"/>	-->	Set Serial Number	90 10 ?? ?? ?? ?? ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	-->	UMFG Set UTC	90 01 ?? ?? ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	-->	UMFG Activate	90 02 00
<input checked="" type="checkbox"/>	-->	Load certificates	90 03 **
<input checked="" type="checkbox"/>	-->	UMFG Validate Certificate Tree	90 04
<input checked="" type="checkbox"/>	-->	UMFG Lock	90 05
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	SMFG Clear White List (91-14)	91 14
<input checked="" type="checkbox"/>	-->	Get SN (12-01)	12 01
<input checked="" type="checkbox"/>	-->	Get Device Nonce (91-08)	91 08 00
<input checked="" type="checkbox"/>	-->	Restart (77-05)	77 05
<input checked="" type="checkbox"/>	-->	SMFG Master Reset (91-00)	91 00
<input checked="" type="checkbox"/>	-->	Get Firmware Version (29-00)	29 00
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	Load KEK	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	-->	Load DEK KSN:3333	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	Load PEK KSN:44444	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	Load Mac KSN:FF987	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	SMFG Delete All Keys (91-09)	91 09
<input checked="" type="checkbox"/>	-->	Get KEK KSN	78 46 3E 03 00 14 00 00
<input checked="" type="checkbox"/>	-->	Get Key Status (81 0C)	81 0C

<input checked="" type="checkbox"/>	Run	File
<input checked="" type="checkbox"/>	-->	PassThrough_ExchangeCLDe

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2020-05-13 12:10:00 : 854 MS
UMFG Validate Certificate Tree
TX:56 69 56 4F 74 65 63 68 32 00 90 04 00 00 B8 7E
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
?e?
Time Spent:4MS
Result:NG

2020-05-13 12:10:09 : 670 MS
UMFG Lock
TX:56 69 56 4F 74 65 63 68 32 00 90 05 00 00 88 49
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
?e?
Time Spent:4MS
Result:NG

2020-05-13 12:10:25 : 733 MS
Reconnect
TX:56 69 56 4F 74 65 63 68 32 00 29 00 00 00 DE A0
RX:56 69 56 4F 74 65 63 68 32 00 29 00 00 1B 4B 48 30 20 41 52 20 33 2E 30 2E 30 2E 44 20 42 75 69 6C 64 3A 32 36 31 38
38 00 D7 E8
RX-ASCII:ViVOtech2?)KH0 AR 3.0.0.D Build:26188??
Time Spent:2MS
Result:OK

2020-05-13 12:10:32 : 379 MS
Get Device Nonce (91-08)
TX:56 69 56 4F 74 65 63 68 32 00 91 08 00 01 00 0B F1
RX:56 69 56 4F 74 65 63 68 32 00 91 00 00 10 39 C4 5B 16 6A 8E 4E 04 F5 93 D4 F5 D3 B8 1A C1 CD 25
RX-ASCII:ViVOtech2?)9?[]?N????????%
Time Spent:124MS
Result:OK

2020-05-13 12:10:38 : 210 MS
Restart (77-05)
TX:56 69 56 4F 74 65 63 68 32 00 77 05 00 00 4F 9C
RX:56 69 56 4F 74 65 63 68 32 00 77 00 00 00 77 BF
RX-ASCII:ViVOtech2?w?w?
Time Spent:41MS
Result:OK

```

Run	Sequence	Command
<input checked="" type="checkbox"/>	--> Load certificates	✗ 90 03
<input checked="" type="checkbox"/>	--> UMFG Validate Certificate Tree	✗ 90 04
<input checked="" type="checkbox"/>	--> UMFG Lock	✗ 90 05
<input checked="" type="checkbox"/>	--> Reconnect	✓ 29 00
<input checked="" type="checkbox"/>	--> Get Device Nonce (91-08)	✓ 91 08 00
<input checked="" type="checkbox"/>	--> Restart (77-05)	✓ 77 05
<input checked="" type="checkbox"/>	--> UMFG Device Reset	✗ 90 00
<input checked="" type="checkbox"/>	--> Set Serial Number	✗ 90 10 ?? ?? ?? ?? ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	--> UMFG Set UTC	✗ 90 01 ?? ?? ?? ?? ?? ??
<input checked="" type="checkbox"/>	--> UMFG Activate	✗ 90 02 00
<input checked="" type="checkbox"/>	--> Load certificates	90 03 **
<input checked="" type="checkbox"/>	--> UMFG Validate Certificate Tree	✗ 90 04
<input checked="" type="checkbox"/>	--> UMFG Lock	90 05
<input checked="" type="checkbox"/>	--> Reconnect	29 00
<input checked="" type="checkbox"/>	--> SMFG Clear White List (91-14)	91 14
<input checked="" type="checkbox"/>	--> Get SN (12-01)	12 01
<input checked="" type="checkbox"/>	--> Get Device Nonce (91-08)	91 08 00
<input checked="" type="checkbox"/>	--> Restart (77-05)	77 05
<input checked="" type="checkbox"/>	--> SMFG Master Reset (91-00)	91 00
<input checked="" type="checkbox"/>	--> Get Firmware Version (29-00)	29 00
<input checked="" type="checkbox"/>	--> Reconnect	29 00
<input checked="" type="checkbox"/>	--> Load KEK	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	--> Load DEK KSN:3333	78 46 F3 B4 00 A6 00 30 81 A3 02 C
<input checked="" type="checkbox"/>	--> Load PEK KSN:4444	78 46 F3 B4 00 A6 00 30 81 A3 02 C
<input checked="" type="checkbox"/>	--> Load Mac KSN:FF987	78 46 F3 B4 00 A6 00 30 81 A3 02 C
<input checked="" type="checkbox"/>	--> SMFG Delete All Keys (91-09)	91 09
<input checked="" type="checkbox"/>	--> Get KEK KSN	78 46 3E 03 00 14 00 00
<input checked="" type="checkbox"/>	--> Get Key Status (81 0C)	81 0C
<input checked="" type="checkbox"/>	--> KEK5300	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	--> DEK(KSN:All 1)5300	78 46 F3 B4 00 A6 00 30 81 A3 02 C
<input checked="" type="checkbox"/>	--> PairingKey(KSN:All 9)5300	78 46 F3 B4 00 A6 00 30 81 A3 02 C
<input checked="" type="checkbox"/>	--> KEK6300	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	--> DEK(KSN:All 1)6300	78 46 F3 B4 00 A6 00 30 81 A3 02 C

Run	File
<input checked="" type="checkbox"/>	--> PassThrough_ExchangeCLD

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2020-05-13 12:12:57 : 199 MS
UMFG Device Reset
TX:56 69 56 4F 74 65 63 68 32 00 90 00 00 00 78 A2
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
De?
Time Spent:6MS
Result:NG

2020-05-13 12:13:04 : 388 MS
Set Serial Number
TX:56 69 56 4F 74 65 63 68 32 00 90 10 00 0A 39 31 39 54 37 36 34 35 32 31 40 9D
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
De?
Time Spent:5MS
Result:NG

2020-05-13 12:14:40 : 749 MS
UMFG Set UTC
TX:56 69 56 4F 74 65 63 68 32 00 90 01 00 00 48 95
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
De?
Time Spent:3MS
Result:NG

2020-05-13 12:14:49 : 042 MS
UMFG Activate
TX:56 69 56 4F 74 65 63 68 32 00 90 02 00 01 00 F1 33
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
De?
Time Spent:5MS
Result:NG

2020-05-13 12:14:50 : 411 MS
Load certificates
Fail : Command Format Error!

2020-05-13 12:14:54 : 390 MS
UMFG Validate Certificate Tree
TX:56 69 56 4F 74 65 63 68 32 00 90 04 00 00 B8 7E
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2?
De?
Time Spent:4MS
Result:NG

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A screenshot of a Windows command prompt window. The title bar at the top reads "File". Below the title bar is a menu bar with "Run" and "File" options. The command prompt shows a prompt "C:\>" followed by the command "PassThrough_ExchangeCLD.exe" and a small icon of a document with a red 'X' on it. The command prompt is currently empty, and the background is a solid light blue color.

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2020-05-13 12:16:43 : 710 MS
UMFG Lock
TX:56 69 56 4F 74 65 63 68 32 00 90 05 00 00 88 49
RX:56 69 56 4F 74 65 63 68 32 00 90 0A 00 00 65 B9
RX-ASCII:ViVOtech2??
??
Time Spent:4MS
Result:NG

2020-05-13 12:16:45 : 538 MS
Reconnect
TX:56 69 56 4F 74 65 63 68 32 00 29 00 00 00 DE A0
RX:56 69 56 4F 74 65 63 68 32 00 29 00 00 1B 4B 48 30 20 41 52 20 33 2E 30 2E 44 20 42 75 69 6C 64 3A
38 00 D7 E8
RX-ASCII:ViVOtech2??KH0 AR 3.0.0.D Build:26188??
Time Spent:2MS
Result:OK

2020-05-13 12:16:48 : 246 MS
SMFG Clear White List (91-14)
TX:56 69 56 4F 74 65 63 68 32 00 91 14 00 00 6F 4B
RX:56 69 56 4F 74 65 63 68 32 00 91 0A 00 00 13 0D
RX-ASCII:ViVOtech2??
??
Time Spent:6MS
Result:NG

2020-05-13 12:16:50 : 441 MS
Get SN (12-01)
TX:56 69 56 4F 74 65 63 68 32 00 12 01 00 00 18 A5
RX:56 69 56 4F 74 65 63 68 32 00 12 00 00 0F 39 31 39 54 37 36 34 35 32 31 00 00 00 00 8D B3
RX-ASCII:ViVOtech2??919T764521????
Time Spent:4MS
Result:OK

2020-05-13 12:16:54 : 771 MS
Get Device Nonce (91-08)
TX:56 69 56 4F 74 65 63 68 32 00 91 08 00 01 00 0B F1
RX:56 69 56 4F 74 65 63 68 32 00 91 00 00 10 91 B5 B2 29 D5 D2 73 C7 7E A0 C8 13 C9 7D 5C 84 E8 F7
RX-ASCII:ViVOtech2??{}??s~???}\???
Time Spent:125MS
Result:OK

2020-05-13 12:16:55 : 850 MS
Restart (77-05)
TX:56 69 56 4F 74 65 63 68 32 00 77 05 00 00 4F 9C
RX:56 69 56 4F 74 65 63 68 32 00 77 00 00 00 77 BF

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<input checked="" type="checkbox"/>	Run	Sequence	Command
<input checked="" type="checkbox"/>	-->	SMFG Master Reset (91-00)	91 00
<input checked="" type="checkbox"/>	-->	Get Firmware Version (29-00)	29 00
<input checked="" type="checkbox"/>	-->	Reconnect	29 00
<input checked="" type="checkbox"/>	-->	Load KEK	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	-->	Load DEK KSN:3333	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	Load PEK KSN:44444	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	Load Mac KSN:FF987	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	SMFG Delete All Keys (91-09)	91 09
<input checked="" type="checkbox"/>	-->	Get KEK KSN	78 46 3E 03 00 14 00 00
<input checked="" type="checkbox"/>	-->	Get Key Status (81 0C)	81 0C
<input checked="" type="checkbox"/>	-->	KEK5300	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	-->	DEK(KSN:All 1)5300	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	PairingKey(KSN:All 9)5300	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	KEK6300	78 46 F2 1D 00 14 08 00 FF FF 98 7
<input checked="" type="checkbox"/>	-->	DEK(KSN:All 1)6300	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	MAC(KSN:All 2)6300	78 46 F3 B4 00 A6 00 30 81 A3 02 0
<input checked="" type="checkbox"/>	-->	Get DRS	C7 3A
<input checked="" type="checkbox"/>	-->	Get DRS 2	C7 3D 01 01 00
<input checked="" type="checkbox"/>	-->	Line 1 Show AB	F0 FC 41 42
<input checked="" type="checkbox"/>	-->	Set to Default	56 69 56 4F 74 65 63 68 32 00 04 0
<input checked="" type="checkbox"/>	-->	Get Module Version	09 20
<input checked="" type="checkbox"/>	-->	Get Device Nonce (91-08)	91 08 00
<input checked="" type="checkbox"/>	-->	Enable Mac	81 40 01
<input checked="" type="checkbox"/>	-->	Disable Mac	81 40 00
<input checked="" type="checkbox"/>	-->	Swipe Card	02 40 1E 9A 03 17 09 18 9C 01 00 9
<input checked="" type="checkbox"/>	-->	PT STOP	2C 01 00
<input checked="" type="checkbox"/>	-->	PT START	2C 01 01
<input checked="" type="checkbox"/>	-->	E P4T 01	Present a qVSDC card with first scrip
<input checked="" type="checkbox"/>	-->	PPSE	56 69 56 4F 74 65 63 68 32 00 2C 1
<input checked="" type="checkbox"/>	-->	Select AID	56 69 56 4F 74 65 63 68 32 00 2C 1

<input checked="" type="checkbox"/>	Run	File
<input checked="" type="checkbox"/>	-->	PassThrough_ExchangeCLDe

2020-05-13 12:24:33 : 142 MS
SMFG Master Reset (91-00)
TX:56 69 56 4F 74 65 63 68 32 00 91 00 00 00 CC D4
RX:56 69 56 4F 74 65 63 68 32 00 91 0A 00 00 13 0D
RX-ASCII:ViVOtech2??
[]

Time Spent:4MS
Result:NG

2020-05-13 12:24:35 : 572 MS
Load KEK
TX:02 22 00 78 46 F2 1D 00 14 08 00 FF FF 98 76 54 32 10 10 10 00 B5 24 7E 9F F0 46 D6 AA 5B E9 C9 04 00 70 05 27 C2 04 03
RX:02 06 00 15 90 57 78 46 F2 1E AC 03
RX-ASCII:??WxF??
Time Spent:100MS
Result:NG

2020-05-13 12:24:37 : 190 MS
SMFG Delete All Keys (91-09)
TX:56 69 56 4F 74 65 63 68 32 00 91 09 00 00 5D 4A
RX:56 69 56 4F 74 65 63 68 32 00 91 0A 00 00 13 0D
RX-ASCII:ViVOtech2??
[]

Time Spent:4MS
Result:NG

2020-05-13 12:24:38 : 645 MS
KEK5300
TX:02 22 00 78 46 F2 1D 00 14 08 00 FF FF 98 76 54 32 10 10 10 00 B5 24 7E 9F F0 46 D6 AA 5B E9 C9 04 00 70 05 27 C2 04 03
RX:02 06 00 15 90 57 78 46 F2 1E AC 03
RX-ASCII:??WxF??
Time Spent:100MS
Result:NG

2020-05-13 12:24:39 : 673 MS
KEK6300
TX:02 22 00 78 46 F2 1D 00 14 08 00 FF FF 98 76 54 32 10 10 10 00 B5 24 7E 9F F0 46 D6 AA 5B E9 C9 04 00 70 05 27 C2 04 03
RX:02 06 00 15 90 57 78 46 F2 1E AC 03
RX-ASCII:??WxF??
Time Spent:100MS
Result:NG

Run	Sequence	Command
✓ -->	Load DEK KSN:3333	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	Load PEK KSN:44444	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	Load Mac KSN:FF987	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	SMFG Delete All Keys (91-09)	✗ 91 09
✓ -->	Get KEK KSN	✓ 78 46 3E 03 00 14 00 00
✓ -->	Get Key Status (81 0C)	✓ 81 0C
✓ -->	KEK5300	✗ 78 46 F2 1D 00 14 08 00 FF FF 98 7
✓ -->	DEK(KSN:All 1)5300	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	PairingKey(KSN:All 9)5300	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	KEK6300	✗ 78 46 F2 1D 00 14 08 00 FF FF 98 7
✓ -->	DEK(KSN:All 1)6300	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	MAC(KSN:All 2)6300	✓ 78 46 F3 B4 00 A6 00 30 81 A3 02 C
✓ -->	Get DRS	✓ C7 3A
✓ -->	Get DRS 2	✓ C7 3D 01 01 00
✓ -->	Line 1 Show AB	✓ F0 FC 41 42
✓ -->	Set to Default	✗ 56 69 56 4F 74 65 63 68 32 00 04 0
✓ -->	Get Module Version	✓ 09 20
✓ -->	Get Device Nonce (91-08)	✓ 91 08 00
✓ -->	Enable Mac	✗ 81 40 01
✓ -->	Disable Mac	✓ 81 40 00
✓ -->	Swipe Card	✗ 02 40 1E 9A 03 17 09 18 9C 01 00 9
✓ -->	PT STOP	✓ 2C 01 00
✓ -->	PT START	✓ 2C 01 01
✓ -->	E P4T 01	✓ Present a qVSDC card with first scrip
✓ -->	PPSE	✗ 56 69 56 4F 74 65 63 68 32 00 2C 1
✓ -->	Select AID	✗ 56 69 56 4F 74 65 63 68 32 00 2C 1
✓ -->	GPO -Contain57	✗ 56 69 56 4F 74 65 63 68 32 00 2C 1
✓ -->	Read Record SFI1-Recore1	✗ 56 69 56 4F 74 65 63 68 32 00 2C 1
✓ -->	Read Record SFI1-Recored2	✗ 56 69 56 4F 70 61 79 56 32 00 2C 1
✓ -->	Read Record SFI2-Record1 -ContainPAN	✗ 56 69 56 4F 70 61 79 56 33 00 2C 1
✓ -->	Read Record SFI2-Record2	✗ 56 69 56 4F 70 61 79 56 33 00 2C 1
✓ -->	PT STOP	✓ 2C 01 00

Run	File
✓ -->	PassThrough_ExchangeCLDe

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2020-05-13 12:32:55 : 221 MS
Set to Default
TX:56 69 56 4F 74 65 63 68 32 00 04 09 00 00 30 87
Result:NG

RX:Get Response Failed!

2020-05-13 12:32:59 : 525 MS
Enable Mac
TX:56 69 56 4F 74 65 63 68 32 00 81 40 00 01 01 2F 0E
RX:56 69 56 4F 74 65 63 68 32 00 81 0B 00 00 3F 9A
RX-ASCII:ViVOtech2??
??
Time Spent:4MS
Result:NG

2020-05-13 12:33:00 : 653 MS
Swipe Card
TX:56 69 56 4F 74 65 63 68 32 00 02 40 00 21 1E 9A 03 17 09 18 9C 01 00 9F 02 06 00 00 00 00 01 00 9F 03 06 00 00 00 00
00 00 9F 21 03 10 10 55 BD 8E
RX:56 69 56 4F 74 65 63 68 32 00 02 03 00 00 D0 DF
RX-ASCII:ViVOtech2??
Time Spent:1MS
Result:NG

2020-05-13 12:33:02 : 721 MS
PPSE
TX:56 69 56 4F 74 65 63 68 32 00 2C 13 00 15 07 00 A4 04 00 0E 32 50 41 59 2E 53 59 53 2E 44 44 46 30 31 00 45 D7
RX:56 69 56 4F 74 65 63 68 32 00 2C 0C 00 00 69 FA
RX-ASCII:ViVOtech2,
??
Time Spent:1MS
Result:NG

2020-05-13 12:33:04 : 014 MS
Select AID
TX:56 69 56 4F 74 65 63 68 32 00 2C 13 00 0E 07 00 A4 04 00 07 A0 00 00 00 03 10 10 00 C1 6D
RX:56 69 56 4F 74 65 63 68 32 00 2C 0C 00 00 69 FA
RX-ASCII:ViVOtech2,
??
Time Spent:2MS
Result:NG

2020-05-13 12:33:05 : 558 MS
GPO -Contain57
TX:56 69 56 4F 74 65 63 68 32 00 2C 13 00 18 07 80 A8 00 00 12 83 10 20 00 40 00 00 00 00 00 15 00 F3 C8 39 6B 08 40 46
B1
RX:56 69 56 4F 74 65 63 68 32 00 2C 0C 00 00 69 FA
RX-ASCII:ViVOtech2,

```

Run	Sequence	Command
<input checked="" type="checkbox"/>	-->	Load DEK KSN:3333
<input checked="" type="checkbox"/>	-->	Load PEK KSN:44444
<input checked="" type="checkbox"/>	-->	Load Mac KSN:FF987
<input checked="" type="checkbox"/>	-->	SMFG Delete All Keys (91-09)
<input checked="" type="checkbox"/>	-->	Get KEK KSN
<input checked="" type="checkbox"/>	-->	Get Key Status (81 0C)
<input checked="" type="checkbox"/>	-->	KEK5300
<input checked="" type="checkbox"/>	-->	DEK(KSN:All 1)5300
<input checked="" type="checkbox"/>	-->	PairingKey(KSN:All 9)5300
<input checked="" type="checkbox"/>	-->	KEK6300
<input checked="" type="checkbox"/>	-->	DEK(KSN:All 1)6300
<input checked="" type="checkbox"/>	-->	MAC(KSN:All 2)6300
<input checked="" type="checkbox"/>	-->	Get DRS
<input checked="" type="checkbox"/>	-->	Get DRS 2
<input checked="" type="checkbox"/>	-->	Line 1 Show AB
<input checked="" type="checkbox"/>	-->	Set to Default
<input checked="" type="checkbox"/>	-->	Get Module Version
<input checked="" type="checkbox"/>	-->	Get Device Nonce (91-08)
<input checked="" type="checkbox"/>	-->	Enable Mac
<input checked="" type="checkbox"/>	-->	Disable Mac
<input checked="" type="checkbox"/>	-->	Swipe Card
<input checked="" type="checkbox"/>	-->	PT STOP
<input checked="" type="checkbox"/>	-->	PT START
<input checked="" type="checkbox"/>	-->	E P4T 01
<input checked="" type="checkbox"/>	-->	PPSE
<input checked="" type="checkbox"/>	-->	Select AID
<input checked="" type="checkbox"/>	-->	GPO -Contain57
<input checked="" type="checkbox"/>	-->	Read Record SFI1-Recore1
<input checked="" type="checkbox"/>	-->	Read Record SFI1-Recored2
<input checked="" type="checkbox"/>	-->	Read Record SFI2-Record1 -ContainPAN
<input checked="" type="checkbox"/>	-->	Read Record SFI2-Record2
<input checked="" type="checkbox"/>	-->	PT STOP

Run	File
<input checked="" type="checkbox"/>	--> PassThrough_ExchangeCLDe

```

2020-05-13 12:33:05 : 558 MS
GPO -Contain57
TX:56 69 56 4F 74 65 63 68 32 00 2C 13 00 18 07 80 A8 00 00 12 83 10 20 00 40 00 00 00 00 15 00 F3 C8 39 6B 08 40 46 B1
RX:56 69 56 4F 74 65 63 68 32 00 2C 0C 00 00 69 FA
RX-ASCII:VIVotech2],
[]?
Time Spent:1MS
Result:NG

2020-05-13 12:33:08 : 312 MS
Read Record SFI1-Recore1
TX:56 69 56 4F 74 65 63 68 32 00 2C 13 00 06 07 00 B2 01 0C 00 28 A2
RX:56 69 56 4F 74 65 63 68 32 00 2C 0C 00 00 69 FA
RX-ASCII:ViVotech2],
[]?
Time Spent:2MS
Result:NG

2020-05-13 12:33:10 : 093 MS
Read Record SFI1-Recored2
TX:56 69 56 4F 70 61 79 56 32 00 2C 13 00 06 07 00 B2 02 0C 00 DE 87
RX:Get Response Failed!

2020-05-13 12:33:11 : 054 MS
Read Record SFI2-Record1 -ContainPAN
TX:56 69 56 4F 70 61 79 56 33 00 2C 13 00 06 07 00 B2 01 14 00 54 54
RX:56 69 56 4F 74 65 63 68 32 00 2C 0C 00 00 69 FA
RX-ASCII:VIVotech2],
[]?
Time Spent:960MS
Result:NG

2020-05-13 12:33:12 : 850 MS
Read Record SFI2-Record2
TX:56 69 56 4F 70 61 79 56 33 00 2C 13 00 06 07 00 B2 02 14 00 04 0D
RX:56 69 56 4F 70 61 79 56 33 00 2C 13 0C 00 00 9D 1F
RX-ASCII:VIVOpayV3],
[]?
Time Spent:2MS
Result:NG

2020-05-13 12:33:14 : 501 MS
Read Record SFI1-Recored2
TX:56 69 56 4F 70 61 79 56 32 00 2C 13 00 06 07 00 B2 02 0C 00 DE 87
Result:NG
RX:Get Response Failed!

```