

56 69 56 4F 74 65 63 68 32 00 02 40 00 29 30 9F 02 06 00 00 00 00 01 9C 01 00 FF EE 06 18 9F 22 02
01 00 9F 26 04 00 00 02 9F 2B 05 01 00 00 00 00 DF 01 01 01 33 FE

Command Sent Breakdown:

A breakdown of the data can be found in the NEO IDG, Table 32.

- 56 69 56 4F 74 65 63 68 32 00 – ViVOTech2 header
- 02 40 – Start transaction command
- 00 29 – Data Length
- 30 – Time out
- 9F 02 06 00 00 00 00 01 – Transaction amount
- 9C 01 00 – Transaction Type
- FF EE 06 – ApplePay VAS Collective
- 18 - length of ApplePay VAS collective
- 9F 22 02 01 00 - ApplePay Terminal AVN
- 9F 26 04 00 00 00 02 - ApplePay terminal Capabilities - 02 = VAS only
- 9F 2B 05 01 00 00 00 00 - ApplePay VAS Filter (optional)
- DF 01 01 01 –
- 33 FE – CRC

Vendi Response:

56 69 56 4F 74 65 63 68 32 00 02 57 00 FF D1 FF EE 12 0A 62 99 49 01 2C 00 04 60 01 AC FF EE 06 82
00 D9 9A 03 14 08 15 9F 21 03 17 32 53 9F 25 20 3C C7 0E D8 9A 9D 43 54 BE 98 30 AB 58 D8 9C 6F E7
E6 2B AC A9 39 D2 A6 85 1D FC 60 2E A7 98 F7 9F 2A 00 9F 27 3E 93 1C 1A 60 4A 46 09 9E 21 EC 88
6D EF CC 8C B8 8B CA 03 CC 4B C6 62 0C C1 8F 8C 10 5A 7A F1 4F 9B 3C D9 E3 36 4E 9C 8C BF E0
90 34 10 B1 58 3C 3D 63 AC 9F CC 48 9C A8 76 AE 8C B3 E5 62 9F 25 20 3C C7 0E D8 9A 9D 43 54 BE
98 30 AB 58 D8 9C 6F E7 E6 2B AC A9 39 D2 A6 85 1D FC 60 2E A7 98 F7 9F 2A 00 9F 27 3E 93 1C 1A
60 4A 46 09 9E 21 EC 88 6D EF CC 8C B8 8B CA 03 CC 4B C6 62 0C C1 8F 8C 10 5A 7A F1 4F 9B 3C D9
E3 36 4E 9C 8C BF E0 90 34 10 B1 58 3C 3D 63 AC 9F CC 48 9C A8 76 AE 8C B3 E5 62 9F 39 01 07 FF
EE 01 04 DF 30 01 00 DF EE 26 01 D1 ED CA

Vendi Response Breakdown:

- 56 69 56 4F 74 65 63 68 32 00 – ViVOTech2 header
- 02 – Act Command returned
- 57 – Status. 57 = no payment occurred
- 00 FF D1 – Data length
- FF EE 12 0A 62 99 49 01 2C 00 04 60 01 12 - KSN and length (because reader is encrypted)
- FF EE 06 - Apple Pay Vas container
- 00 82 - Data length
- D9 9A 03 14 08 15 9F 21 03 17 32 53 9F 25 20 3C C7 0E D8 9A 9D 43 54 BE 98 30 AB 58 D8 9C
6F E7 E6 2B AC A9 39 D2 A6 85 1D FC 60 2E A7 98 F7 9F 2A 00 9F 27 3E 93 1C 1A 60 4A 46 09
9E 21 EC 88 6D EF CC 8C B8 8B CA 03 CC 4B C6 62 0C C1 8F 8C 10 5A 7A F1 4F 9B 3C D9 E3
36 4E 9C 8C BF E0 90 34 10 B1 58 3C 3D 63 AC 9F CC 48 9C A8 76 AE 8C B3 E5 62 9F 25 20
3C C7 0E D8 9A 9D 43 54 BE 98 30 AB 58 D8 9C 6F E7 E6 2B AC A9 39 D2 A6 85 1D FC 60 2E
A7 98 F7 9F 2A 00 9F 27 3E 93 1C 1A 60 4A 46 09 9E 21 EC 88 6D EF CC 8C B8 8B CA 03 CC
4B C6 62 0C C1 8F 8C 10 5A 7A F1 4F 9B 3C D9 E3 36 4E 9C 8C BF E0 90 34 10 B1 58 3C 3D 63
AC 9F CC 48 9C A8 76 AE 8C B3 E5 62 9F 39 01 07 FF EE 01 04 DF 30 01 00 DF EE 26 01 D1 –

VAS AND Pay transaction:

Cmd: 02, Sub: 40

Data:

30 9F 02 06 00 00 00 00 01 9C 01 00 FF EE 06 18 9F 22 02 01 00 9F 26 04 00 00 00 01 9F
2B 05 01 00 00 00 00 DF 01 01 01

Tags ctls_startTransaction in SKD:

FFEE06189F220201009F260400000019F2B050100000000DF010101

VAS-only transaction:

Cmd: 02, Sub: 40

Data:

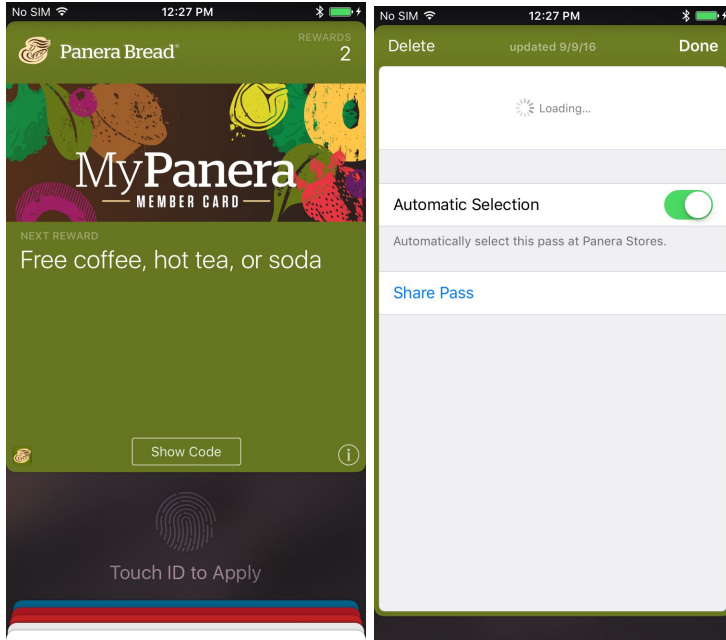
30 9F 02 06 00 00 00 00 01 9C 01 00 FF EE 06 18 9F 22 02 01 00 9F 26 04 00 00 00 02 9F
2B 05 01 00 00 00 00 DF 01 01 01

Tags ctls_startTransaction in SKD:

FFEE06189F220201009F260400000029F2B050100000000DF010101

4. Notes on VAS Auto Select

In order for the autoselect feature for the apple vas cards to work, the specific card must be configured for auto selection. This option can be found in the options for the card (found by clicking the “i” icon on the bottom right of the card).



The way APVAS works is that the reader will ask the iPhone for data for every Merchant ID it has been configured with. Which of the iPhone passes will respond depends on a number of factors:

1. Is there a pass that matches the Merchant ID?
2. If the pass supports auto select, is it enabled?
3. Is the pass access authorized?
4. Even if not authorized the iPhone may request authorization (i.e. finger scan).

Depending on the pass programming, the iPhone may transparently initiate another transaction which provides for missed authorization. Or it may audibly and visually request the try again.

It is entirely possible that if the iPhone supports all of the Merchant ID's configured in the reader that it might provide all of the data required for each. It is also possible that the pass would dictate what passes might be allowed. This is all driven by the passes on the iPhone.