

NEO 1.01 to NEO 1.10: Differences Between Versions

1. Overview

The ID TECH VP3300 is one of ID TECH's most popular card reader devices. The VP3300 has been used in mobile, countertop, and OEM scenarios integrating the reader into POS terminals and hand-held payment devices. With such high popularity, ID TECH has updated the reader's contactless certifications, making them available for gateways and processors who have yet to perform an L3 contactless certification or those that have only completed a contact EMV L3 certification to have until 2024 to start their EMV L3 contactless certification.

The VP3300's innovative design allowed the unit to pass the Contactless EMV L1 2.6 specification, meaning that devices in the field don't need to be replaced and only require a firmware update to support the new contactless kernels.

2. Where to Find NEO 1.10 Firmware Upgrade Help

ID TECH has created two articles on our Knowledge Base to assist users in upgrading the firmware on their VP3300 or VP8300 readers from NEO 1.01.XXX to NEO 1.10.XXX:

- [How to Update the VP3300 and VP8300 Kernel from 1.01 to 1.10](#)
- [Updating VP3300 Readers to FW v1.10 with the VP3300 Firmware Update App](#)

3. Certification Differences

	VP3300 v1.01	VP3300 v1.10
Master	MasterCard PayPass M/Chip v3.0.3	MasterCard v3.1.2
Visa	Visa VCPS 2.1.3	Visa VCPS 2.1.3
Amex	Amex ExpressPay 3.0	Amex ExpressPay 4.0.2
Discover	Discover DPAS 1.0 Zip 3.1.2	Discover DPAS 1.0 Zip 3.1.2
Interac	Interac 1.5	Interac 1.7
Contactless EMV L1	EMV 2.3.1	EMV 2.6b
Contact EMV L1	EMV 4.0	EMV 4.3C
Contact L2 Kernel	Common EMV L2 v037	Common EMV L2 v037

4. Firmware Differences

	VP3300 v1.01	VP3300 v1.10
3 Interface	No	Supports 3 Interface (DFEF37 and DFEF3C) in 02-40 command
New Apple VAS spec	Only supports 01-0A	Supports 01-0A, D1-30, 01-0C, and 01-0D commands
RKI	RKI Rev A	RKI Rev B
Spec	NEO IDG Supplement for UniPay III and UniPay 1.5 v1.96.docx	NEO IDG Supplement for UniPay III and UniPay 1.5 v1.96.docx
System Flash Size	600K bytes	700K bytes
File System Size	64K bytes	32k bytes

Visa Default Group	Group 0	Group 6
Discover Default Group	Group 0	Group 3

5. Tag Differences

The tables below list the differences between new and old tags for AMEX and MasterCard.

Note: The tags for **VISA**, **Discover** and **Interac** have not changed in v1.10.

AMEX

	VP3300 v1.01	VP3300 v1.10
TAC - Online	FFFD	DF8121
TAC - Default	FFFE	DF8120
TAC - Denial	FFFF	DF8122
Terminal Capabilities	DF51	9F6D
Restart Deactivation Time	FFEE20	DFEE5C
Reader Contactless Transaction Limit	FFF1	DF8913
Reader contactless CVM limit	FFF5	DF8126
Merchant Category Code		9F15
Merchant Name and Location		9F4E
Transaction Currency Exponent		5F36
Enable Certification Revocation tag in the configuration file		DFEE0F

MasterCard

	VP3300 v1.01	VP3300 v1.10
Terminal Capabilities - No CVM Required	DF28	DF8119
Terminal Capabilities - CVM Req	DF29	DF8118
DS (Data Storage) AC type		DF8108
DS Input (Card)		DF60
DS Input (Term)		DF8109
DS ODS Info		DF62
DS ODS Info for Reader		DF810A
DS ODS Term		DF63
DS Requested Operator ID Tag		9F5C
DSVN Term		DF810D
Reader Contactless Floor Limit	9F1B	DF8123
Security Capabilities		DF811F
Card Data Input Capability		DF8117