**UX301 KERNEL CONFIGURATION**

**Terminal Capabilities – 9F33**

Byte 1

bit 8: 1 = Manual Key Entry

bit 7: 1 = Magnetic Stripe

bit 6: 1 = IC with contacts

bit 5: 1 = RFU

bit4: 1 = RFU

bit 3: 1 = RFU

bit 2: 1 = RFU

bit 1: 1 = RFU

Byte 2

bit 8: 1 = Plaintext PIN for ICC verification

bit 7: 1 = Enciphered PIN for online verification

bit 6: 1 = Signature (paper)

bit 5: 1 = Enciphered PIN for offline verification

bit 4: 1 = No CVM Required

bit 3: = RFU

bit 2: = RFU

bit 1: = RFU

Byte 3

bit 8: 1 = SDA

bit 7: 1 = DDA

bit 6: 1 = Card capture

bit 5: 1 = RFU

bit 4: 1 = CDA

bit 3: = RFU

bit 2: = RFU

bit 1: = RFU

DEFAULT : 60 08 08

PROPOSED : **60 D8 C8**

**Additional Terminal Capabilities – 9F40**

**Byte 1**

bit 8: Cash

bit 7: Goods

bit 6: Services

bit 5: Cashback

bit 4: Inquiry

bit 3: Transfer

bit 2: Payment

bit 1: Administrative

**Byte 2**

bit 8: Cash deposit

bits 7-1: RFU

**Byte 3**

bit 8: Numeric Keys

bit 7: Alphabetical and special characters keys

bit 6: Command keys

bit 5: Function keys

bits 4-1: Function keys

**Byte 4**

bit 8: Print attendant

bit 7: Print cardholder

bit 6: Display attendant

bit 5: Display cardholder

bits 4-3 : RFU

bit 2: Code table 10

bit 1: Code table 9

**Byte 5**

bit 8: Code table 8

bit 7: Code table 7

bit 6: Code table 6

bit 5: Code table 5

bit 4: Code table 4

bit 3: Code table 3

bit 2: Code table 2

bit 1: Code table 1

DEFAULT : 40 00 F0 00 01

PROPOSED : **60 00 F0 50 01**

**KernelConfigChecksumParams**

**Byte 0**

**Bit 7:** account type selection supported

**Bit 6:** PSE reading supported

**Bit 5:** online data capture supported

**Bit 4:** forced acceptance supported

**Bit 3:** forced online supported

**Bit 2:** exception file supported

**Bit 1:** transaction log supported

**Bit 0:** include kernel version when calculating the checksum

**Byte 1**

**Bit 7:** multi-language supported

**Bit 6:** card initiated referrals supported

**Bit 5:** issuer initiated referrals supported

**Bit 4:** batch data capture supported

**Bit 3:** default TDOL supported

**Bit 2:** PIN bypass supported

**Bit 1:** cardholder confirmation supported

**Bit 0:** advices supported

**Byte 2**

**Bit 0:** subsequent PIN bypass supported

EXAMPLE

FEBE01 - for kernel EMV L2 Version 7.0.3r config 3C

EEBE01 - for kernel EMV L2 Version 7.0.3r config 4C

PROPOSED : **E7 9A 00**