

## Description of mnemonics

| MNEMONIC         | TRANSACTION TYPE | NETWORK | CARD ORIGIN       | CARD TYPE         |
|------------------|------------------|---------|-------------------|-------------------|
| VISASWMDR (CP)   | CARD PRESENT     | VISA    | SWISS/MICROSTATES | CONSUMER DEBIT    |
| VISASWMDR (CNP)  | CARD NOT PRESENT | VISA    | SWISS/MICROSTATES | CONSUMER DEBIT    |
| VISASWMCR (CP)   | CARD PRESENT     | VISA    | SWISS/MICROSTATES | CONSUMER CREDIT   |
| VISASWMCR (CNP)  | CARD NOT PRESENT | VISA    | SWISS/MICROSTATES | CONSUMER CREDIT   |
| VISASWMCD (CP)   | CARD PRESENT     | VISA    | SWISS/MICROSTATES | COMMERCIAL DEBIT  |
| VISASWMCD (CNP)  | CARD NOT PRESENT | VISA    | SWISS/MICROSTATES | COMMERCIAL DEBIT  |
| VISASWMCC (CP)   | CARD PRESENT     | VISA    | SWISS/MICROSTATES | COMMERCIAL CREDIT |
| VISASWMCC (CNP)  | CARD NOT PRESENT | VISA    | SWISS/MICROSTATES | COMMERCIAL CREDIT |
| VISASWMBD (CP)   | CARD PRESENT     | VISA    | SWISS/MICROSTATES | BUSINESS DEBIT    |
| VISASWMBD (CNP)  | CARD NOT PRESENT | VISA    | SWISS/MICROSTATES | BUSINESS DEBIT    |
| VISASWMBC (CP)   | CARD PRESENT     | VISA    | SWISS/MICROSTATES | BUSINESS CREDIT   |
| VISASWMBC (CNP)  | CARD NOT PRESENT | VISA    | SWISS/MICROSTATES | BUSINESS CREDIT   |
| VISAONUSDR (CP)  | CARD PRESENT     | VISA    | LOCAL             | CONSUMER DEBIT    |
| VISAONUSDR (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | CONSUMER DEBIT    |
| VISAONUSDF (CP)  | CARD PRESENT     | VISA    | LOCAL             | UNDEFINED         |
| VISAONUSDF (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | UNDEFINED         |
| VISAONUSCR (CP)  | CARD PRESENT     | VISA    | LOCAL             | CONSUMER CREDIT   |
| VISAONUSCR (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | CONSUMER CREDIT   |
| VISAONUSCL (CP)  | CARD PRESENT     | VISA    | LOCAL             | COMMERCIAL        |
| VISAONUSCL (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | COMMERCIAL        |
| VISAONUSCD (CP)  | CARD PRESENT     | VISA    | LOCAL             | COMMERCIAL DEBIT  |
| VISAONUSCD (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | COMMERCIAL DEBIT  |
| VISAONUSCC (CP)  | CARD PRESENT     | VISA    | LOCAL             | COMMERCIAL CREDIT |
| VISAONUSCC (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | COMMERCIAL CREDIT |
| VISAONUSBD (CP)  | CARD PRESENT     | VISA    | LOCAL             | BUSINESS DEBIT    |
| VISAONUSBD (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | BUSINESS DEBIT    |
| VISAONUSBC (CP)  | CARD PRESENT     | VISA    | LOCAL             | BUSINESS CREDIT   |
| VISAONUSBC (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | BUSINESS CREDIT   |
| VISAONUSBB (CP)  | CARD PRESENT     | VISA    | LOCAL             | VIRTUAL BB        |
| VISAONUSBB (CNP) | CARD NOT PRESENT | VISA    | LOCAL             | VIRTUAL BB        |
| VISANEURDR (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL    | CONSUMER DEBIT    |
| VISANEURDR (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL    | CONSUMER DEBIT    |
| VISANEURDF (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL    | UNDEFINED         |
| VISANEURDF (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL    | UNDEFINED         |
| VISANEURCR (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL    | CONSUMER CREDIT   |

| MNEMONIC         | TRANSACTION TYPE | NETWORK | CARD ORIGIN    | CARD TYPE             |
|------------------|------------------|---------|----------------|-----------------------|
| VISANEURCR (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | CONSUMER CREDIT       |
| VISANEURCL (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL | COMMERCIAL            |
| VISANEURCL (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | COMMERCIAL            |
| VISANEURCD (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL | COMMERCIAL DEBIT      |
| VISANEURCD (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | COMMERCIAL DEBIT      |
| VISANEURCC (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL | COMMERCIAL CREDIT     |
| VISANEURCC (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | COMMERCIAL CREDIT     |
| VISANEURBB (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL | VIRTUAL COMMERCIAL BB |
| VISANEURBB (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | VIRTUAL COMMERCIAL BB |
| VISANEUMDR (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL | CONSUMER DEBIT        |
| VISANEUMDR (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | CONSUMER DEBIT        |
| VISANEUMCR (CP)  | CARD PRESENT     | VISA    | INTER-REGIONAL | CONSUMER CREDIT       |
| VISANEUMCR (CNP) | CARD NOT PRESENT | VISA    | INTER-REGIONAL | CONSUMER CREDIT       |
| VISALCALDR (CP)  | CARD PRESENT     | VISA    | LOCAL          | CONSUMER DEBIT        |
| VISALCALDR (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | CONSUMER DEBIT        |
| VISALCALDF (CP)  | CARD PRESENT     | VISA    | LOCAL          | UNDEFINED             |
| VISALCALDF (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | UNDEFINED             |
| VISALCALCR (CP)  | CARD PRESENT     | VISA    | LOCAL          | CONSUMER CREDIT       |
| VISALCALCR (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | CONSUMER CREDIT       |
| VISALCALCL (CP)  | CARD PRESENT     | VISA    | LOCAL          | COMMERCIAL            |
| VISALCALCL (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | COMMERCIAL            |
| VISALCALCD (CP)  | CARD PRESENT     | VISA    | LOCAL          | COMMERCIAL DEBIT      |
| VISALCALCD (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | COMMERCIAL DEBIT      |
| VISALCALCC (CP)  | CARD PRESENT     | VISA    | LOCAL          | COMMERCIAL CREDIT     |
| VISALCALCC (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | COMMERCIAL CREDIT     |
| VISALCALBD (CP)  | CARD PRESENT     | VISA    | LOCAL          | COMMERCIAL DEBIT      |
| VISALCALBD (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | COMMERCIAL DEBIT      |
| VISALCALBC (CP)  | CARD PRESENT     | VISA    | LOCAL          | COMMERCIAL CREDIT     |
| VISALCALBC (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | COMMERCIAL CREDIT     |
| VISALCALBB (CP)  | CARD PRESENT     | VISA    | LOCAL          | VIRTUAL COMMERCIAL BB |
| VISALCALBB (CNP) | CARD NOT PRESENT | VISA    | LOCAL          | VIRTUAL COMMERCIAL BB |
| VISAGBRDR (CP)   | CARD PRESENT     | VISA    | GREAT BRITAIN  | CONSUMER DEBIT        |
| VISAGBRDR (CNP)  | CARD NOT PRESENT | VISA    | GREAT BRITAIN  | CONSUMER DEBIT        |
| VISAGBRCR (CP)   | CARD PRESENT     | VISA    | GREAT BRITAIN  | CONSUMER CREDIT       |
| VISAGBRCR (CNP)  | CARD NOT PRESENT | VISA    | GREAT BRITAIN  | CONSUMER CREDIT       |
| VISAGBRCD (CP)   | CARD PRESENT     | VISA    | GREAT BRITAIN  | COMMERCIAL DEBIT      |
| VISAGBRCD (CNP)  | CARD NOT PRESENT | VISA    | GREAT BRITAIN  | COMMERCIAL DEBIT      |
| VISAGBRCC (CP)   | CARD PRESENT     | VISA    | GREAT BRITAIN  | COMMERCIAL CREDIT     |
| VISAGBRCC (CNP)  | CARD NOT PRESENT | VISA    | GREAT BRITAIN  | COMMERCIAL CREDIT     |
| VISAGBRBD (CP)   | CARD PRESENT     | VISA    | GREAT BRITAIN  | BUSINESS DEBIT        |

| MNEMONIC        | TRANSACTION TYPE | NETWORK    | CARD ORIGIN       | CARD TYPE             |
|-----------------|------------------|------------|-------------------|-----------------------|
| VISAGBRBD (CNP) | CARD NOT PRESENT | VISA       | GREAT BRITAIN     | BUSINESS DEBIT        |
| VISAGBRBC (CP)  | CARD PRESENT     | VISA       | GREAT BRITAIN     | BUSINESS CREDIT       |
| VISAGBRBC (CNP) | CARD NOT PRESENT | VISA       | GREAT BRITAIN     | BUSINESS CREDIT       |
| VISAEURID (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | INFINITE DEBIT        |
| VISAEURID (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | INFINITE DEBIT        |
| VISAEURIC (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | INFINITE CREDIT       |
| VISAEURIC (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | INFINITE CREDIT       |
| VISAEURDR (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | CONSUMER DEBIT        |
| VISAEURDR (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | CONSUMER DEBIT        |
| VISAEURDF (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | UNDEFINED             |
| VISAEURDF (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | UNDEFINED             |
| VISAEURCR (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | CONSUMER CREDIT       |
| VISAEURCR (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | CONSUMER CREDIT       |
| VISAEURCL (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | COMMERCIAL            |
| VISAEURCL (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | COMMERCIAL            |
| VISAEURCD (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | COMMERCIAL DEBIT      |
| VISAEURCD (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | COMMERCIAL DEBIT      |
| VISAEURCC (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | COMMERCIAL CREDIT     |
| VISAEURCC (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | COMMERCIAL CREDIT     |
| VISAEURBD (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | BUSINESS DEBIT        |
| VISAEURBD (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | BUSINESS DEBIT        |
| VISAEURBC (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | BUSINESS CREDIT       |
| VISAEURBC (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | BUSINESS CREDIT       |
| VISAEURBB (CP)  | CARD PRESENT     | VISA       | INTRA-REGIONAL    | VIRTUAL BB            |
| VISAEURBB (CNP) | CARD NOT PRESENT | VISA       | INTRA-REGIONAL    | VIRTUAL BB            |
| MCRDSWMDR (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | CONSUMER DEBIT        |
| MCRDSWMDR (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | CONSUMER DEBIT        |
| MCRDSWMCR (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | CONSUMER CREDIT       |
| MCRDSWMCR (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | CONSUMER CREDIT       |
| MCRDSWMCD (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL DEBIT      |
| MCRDSWMCD (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL DEBIT      |
| MCRDSWMCC (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL CREDIT     |
| MCRDSWMCC (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL CREDIT     |
| MCRDSWMBB (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | VIRTUAL BB            |
| MCRDSWMBB (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | VIRTUAL BB            |
| MCRDSWM3D (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL DEBIT (3)  |
| MCRDSWM3D (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL DEBIT (3)  |
| MCRDSWM3C (CP)  | CARD PRESENT     | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL CREDIT (3) |
| MCRDSWM3C (CNP) | CARD NOT PRESENT | MASTERCARD | SWISS/MICROSTATES | COMMERCIAL CREDIT (3) |
| MCRDONUSDR (CP) | CARD PRESENT     | MASTERCARD | LOCAL             | CONSUMER DEBIT        |

| MNEMONIC         | TRANSACTION TYPE | NETWORK    | CARD ORIGIN    | CARD TYPE             |
|------------------|------------------|------------|----------------|-----------------------|
| MCRDONUSDR (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | CONSUMER DEBIT        |
| MCRDONUSDF (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | UNDEFINED             |
| MCRDONUSDF (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | UNDEFINED             |
| MCRDONUSCR (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | CONSUMER CREDIT       |
| MCRDONUSCR (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | CONSUMER CREDIT       |
| MCRDONUSCL (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL            |
| MCRDONUSCL (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL            |
| MCRDONUSCD (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL DEBIT      |
| MCRDONUSCD (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL DEBIT      |
| MCRDONUSCC (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL CREDIT     |
| MCRDONUSCC (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL CREDIT     |
| MCRDONUSBB (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | VIRTUAL BB            |
| MCRDONUSBB (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | VIRTUAL BB            |
| MCRDONUS3D (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (3)  |
| MCRDONUS3D (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (3)  |
| MCRDONUS2D (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (2)  |
| MCRDONUS2D (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (2)  |
| MCRDONUS2C (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL CREDIT (2) |
| MCRDONUS2C (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL CREDIT (2) |
| MCRDNEUMDR (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | CONSUMER DEBIT        |
| MCRDNEUMDR (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | CONSUMER DEBIT        |
| MCRDNEUMCR (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | CONSUMER CREDIT       |
| MCRDNEUMCR (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | CONSUMER CREDIT       |
| MCRDN-EUDR (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | CONSUMER DEBIT        |
| MCRDN-EUDR (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | CONSUMER DEBIT        |
| MCRDN-EUDF (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | UNDEFINED             |
| MCRDN-EUDF (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | UNDEFINED             |
| MCRDN-EUCR (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | CONSUMER CREDIT       |
| MCRDN-EUCR (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | CONSUMER CREDIT       |
| MCRDN-EUCL (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | COMMERCIAL            |
| MCRDN-EUCL (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | COMMERCIAL            |
| MCRDN-EUCD (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | COMMERCIAL DEBIT      |
| MCRDN-EUCD (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | COMMERCIAL DEBIT      |
| MCRDN-EUCC (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | COMMERCIAL CREDIT     |
| MCRDN-EUCC (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | COMMERCIAL CREDIT     |
| MCRDN-EUBB (CP)  | CARD PRESENT     | MASTERCARD | INTER-REGIONAL | VIRTUAL BB            |
| MCRDN-EUBB (CNP) | CARD NOT PRESENT | MASTERCARD | INTER-REGIONAL | VIRTUAL BB            |
| MCRDLCALDR (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | CONSUMER DEBIT        |
| MCRDLCALDR (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | CONSUMER DEBIT        |
| MCRDLCALDF (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | UNDEFINED             |

| MNEMONIC         | TRANSACTION TYPE | NETWORK    | CARD ORIGIN    | CARD TYPE             |
|------------------|------------------|------------|----------------|-----------------------|
| MCRDLCALDF (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | UNDEFINED             |
| MCRDLCALCR (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | CONSUMER CREDIT       |
| MCRDLCALCR (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | CONSUMER CREDIT       |
| MCRDLCALCL (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL            |
| MCRDLCALCL (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL            |
| MCRDLCALCD (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL DEBIT      |
| MCRDLCALCD (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL DEBIT      |
| MCRDLCALCC (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL CREDIT     |
| MCRDLCALCC (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL CREDIT     |
| MCRDLCALBB (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | VIRTUAL BB            |
| MCRDLCALBB (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | VIRTUAL BB            |
| MCRDLCAL3D (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (3)  |
| MCRDLCAL3D (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (3)  |
| MCRDLCAL2D (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (2)  |
| MCRDLCAL2D (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL DEBIT (2)  |
| MCRDLCAL2C (CP)  | CARD PRESENT     | MASTERCARD | LOCAL          | COMMERCIAL CREDIT (2) |
| MCRDLCAL2C (CNP) | CARD NOT PRESENT | MASTERCARD | LOCAL          | COMMERCIAL CREDIT (2) |
| MCRDGBRDR (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | CONSUMER DEBIT        |
| MCRDGBRDR (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | CONSUMER DEBIT        |
| MCRDGBRCR (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | CONSUMER CREDIT       |
| MCRDGBRCR (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | CONSUMER CREDIT       |
| MCRDGBRCD (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | COMMERCIAL DEBIT      |
| MCRDGBRCD (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | COMMERCIAL DEBIT      |
| MCRDGBRCC (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | COMMERCIAL CREDIT     |
| MCRDGBRCC (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | COMMERCIAL CREDIT     |
| MCRDGBRBB (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | VIRTUAL BB            |
| MCRDGBRBB (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | VIRTUAL BB            |
| MCRDGBR3D (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | COMMERCIAL DEBIT (3)  |
| MCRDGBR3D (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | COMMERCIAL DEBIT (3)  |
| MCRDGBR3C (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | COMMERCIAL CREDIT (3) |
| MCRDGBR3C (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | COMMERCIAL CREDIT (3) |
| MCRDGBR2D (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | COMMERCIAL DEBIT (2)  |
| MCRDGBR2D (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | COMMERCIAL DEBIT (2)  |
| MCRDGBR2C (CP)   | CARD PRESENT     | MASTERCARD | GREAT BRITAIN  | COMMERCIAL CREDIT (2) |
| MCRDGBR2C (CNP)  | CARD NOT PRESENT | MASTERCARD | GREAT BRITAIN  | COMMERCIAL CREDIT (2) |
| MCRDEURDR (CP)   | CARD PRESENT     | MASTERCARD | INTRA-REGIONAL | CONSUMER DEBIT        |
| MCRDEURDR (CNP)  | CARD NOT PRESENT | MASTERCARD | INTRA-REGIONAL | CONSUMER DEBIT        |
| MCRDEURDF (CP)   | CARD PRESENT     | MASTERCARD | INTRA-REGIONAL | UNDEFINED             |
| MCRDEURDF (CNP)  | CARD NOT PRESENT | MASTERCARD | INTRA-REGIONAL | UNDEFINED             |
| MCRDEURCR (CP)   | CARD PRESENT     | MASTERCARD | INTRA-REGIONAL | CONSUMER CREDIT       |

| MNEMONIC         | TRANSACTION TYPE | NETWORK     | CARD ORIGIN                   | CARD TYPE             |
|------------------|------------------|-------------|-------------------------------|-----------------------|
| MCRDEURCR (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | CONSUMER CREDIT       |
| MCRDEURCL (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL            |
| MCRDEURCL (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL            |
| MCRDEURCD (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL DEBIT      |
| MCRDEURCD (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL DEBIT      |
| MCRDEURCC (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL CREDIT     |
| MCRDEURCC (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL CREDIT     |
| MCRDEURBB (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL            |
| MCRDEURBB (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL            |
| MCRDEUR3D (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL DEBIT (3)  |
| MCRDEUR3D (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL DEBIT (3)  |
| MCRDEUR3C (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL CREDIT (3) |
| MCRDEUR3C (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL CREDIT (3) |
| MCRDEUR2D (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL DEBIT (2)  |
| MCRDEUR2D (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL DEBIT (2)  |
| MCRDEUR2C (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL CREDIT (2) |
| MCRDEUR2C (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL                | COMMERCIAL CREDIT (2) |
| MCRDEUNDR (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | CONSUMER DEBIT        |
| MCRDEUNDR (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | CONSUMER DEBIT        |
| MCRDEUNCR (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | CONSUMER CREDIT       |
| MCRDEUNCR (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | CONSUMER CREDIT       |
| MCRDEUNCD (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL DEBIT      |
| MCRDEUNCD (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL DEBIT      |
| MCRDEUNCC (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL CREDIT     |
| MCRDEUNCC (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL CREDIT     |
| MCRDEUNBB (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | VIRTUAL BB            |
| MCRDEUNBB (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | VIRTUAL BB            |
| MCRDEUN3D (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL DEBIT (3)  |
| MCRDEUN3D (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL DEBIT (3)  |
| MCRDEUN3C (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL CREDIT (3) |
| MCRDEUN3C (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL CREDIT (3) |
| MCRDEUN2D (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL DEBIT (2)  |
| MCRDEUN2D (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL DEBIT (2)  |
| MCRDEUN2C (CP)   | CARD PRESENT     | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL CREDIT (2) |
| MCRDEUN2C (CNP)  | CARD NOT PRESENT | MASTERCARD  | INTRA-REGIONAL (NOT EUROZONE) | COMMERCIAL CREDIT (2) |
| DNRSONUSDF (CP)  | CARD PRESENT     | DINERS CLUB | LOCAL                         | UNDEFINED             |
| DNRSONUSDF (CNP) | CARD NOT PRESENT | DINERS CLUB | LOCAL                         | UNDEFINED             |
| DNRSNEURDF (CP)  | CARD PRESENT     | DINERS CLUB | INTER-REGIONAL                | UNDEFINED             |
| DNRSNEURDF (CNP) | CARD NOT PRESENT | DINERS CLUB | INTER-REGIONAL                | UNDEFINED             |
| DNRSEURDF (CP)   | CARD PRESENT     | DINERS CLUB | INTRA-REGIONAL                | UNDEFINED             |

| MNEMONIC         | TRANSACTION TYPE | NETWORK         | CARD ORIGIN    | CARD TYPE       |
|------------------|------------------|-----------------|----------------|-----------------|
| DNRSEURDF (CNP)  | CARD NOT PRESENT | DINERS CLUB     | INTRA-REGIONAL | UNDEFINED       |
| UPINEURDR (CP)   | CARD PRESENT     | CHINA UNION PAY | INTER-REGIONAL | CONSUMER DEBIT  |
| UPINEURDR (CNP)  | CARD NOT PRESENT | CHINA UNION PAY | INTER-REGIONAL | CONSUMER DEBIT  |
| UPINEURDF (CP)   | CARD PRESENT     | CHINA UNION PAY | INTER-REGIONAL | UNDEFINED       |
| UPINEURDF (CNP)  | CARD NOT PRESENT | CHINA UNION PAY | INTER-REGIONAL | UNDEFINED       |
| UPINEURCR (CP)   | CARD PRESENT     | CHINA UNION PAY | INTER-REGIONAL | CONSUMER CREDIT |
| UPINEURCR (CNP)  | CARD NOT PRESENT | CHINA UNION PAY | INTER-REGIONAL | CONSUMER CREDIT |
| UPINEURCL (CP)   | CARD PRESENT     | CHINA UNION PAY | INTER-REGIONAL | COMMERCIAL      |
| UPINEURCL (CNP)  | CARD NOT PRESENT | CHINA UNION PAY | INTER-REGIONAL | COMMERCIAL      |
| UPIEURDR (CP)    | CARD PRESENT     | CHINA UNION PAY | INTRA-REGIONAL | CONSUMER DEBIT  |
| UPIEURDR (CNP)   | CARD NOT PRESENT | CHINA UNION PAY | INTRA-REGIONAL | CONSUMER DEBIT  |
| UPIEURDF (CP)    | CARD PRESENT     | CHINA UNION PAY | INTRA-REGIONAL | UNDEFINED       |
| UPIEURDF (CNP)   | CARD NOT PRESENT | CHINA UNION PAY | INTRA-REGIONAL | UNDEFINED       |
| UPIEURCR (CP)    | CARD PRESENT     | CHINA UNION PAY | INTRA-REGIONAL | CONSUMER CREDIT |
| UPIEURCR (CNP)   | CARD NOT PRESENT | CHINA UNION PAY | INTRA-REGIONAL | CONSUMER CREDIT |
| UPIEURCL (CP)    | CARD PRESENT     | CHINA UNION PAY | INTRA-REGIONAL | COMMERCIAL      |
| UPIEURCL (CNP)   | CARD NOT PRESENT | CHINA UNION PAY | INTRA-REGIONAL | COMMERCIAL      |
| UPIDF (CP)       | CARD PRESENT     | CHINA UNION PAY | UNDEFINED      | UNDEFINED       |
| UPIDF (CNP)      | CARD NOT PRESENT | CHINA UNION PAY | UNDEFINED      | UNDEFINED       |
| JCBNEURDR (CP)   | CARD PRESENT     | JCB             | INTER-REGIONAL | CONSUMER DEBIT  |
| JCBNEURDR (CNP)  | CARD NOT PRESENT | JCB             | INTER-REGIONAL | CONSUMER DEBIT  |
| JCBNEURDF (CP)   | CARD PRESENT     | JCB             | INTER-REGIONAL | UNDEFINED       |
| JCBNEURDF (CNP)  | CARD NOT PRESENT | JCB             | INTER-REGIONAL | UNDEFINED       |
| JCBNEURCR (CP)   | CARD PRESENT     | JCB             | INTER-REGIONAL | CONSUMER CREDIT |
| JCBNEURCR (CNP)  | CARD NOT PRESENT | JCB             | INTER-REGIONAL | CONSUMER CREDIT |
| JCBNEURCL (CP)   | CARD PRESENT     | JCB             | INTER-REGIONAL | COMMERCIAL      |
| JCBNEURCL (CNP)  | CARD NOT PRESENT | JCB             | INTER-REGIONAL | COMMERCIAL      |
| JCBEURDR (CP)    | CARD PRESENT     | JCB             | INTRA-REGIONAL | CONSUMER DEBIT  |
| JCBEURDR (CNP)   | CARD NOT PRESENT | JCB             | INTRA-REGIONAL | CONSUMER DEBIT  |
| JCBEURDF (CP)    | CARD PRESENT     | JCB             | INTRA-REGIONAL | UNDEFINED       |
| JCBEURDF (CNP)   | CARD NOT PRESENT | JCB             | INTRA-REGIONAL | UNDEFINED       |
| JCBEURCR (CP)    | CARD PRESENT     | JCB             | INTRA-REGIONAL | CONSUMER CREDIT |
| JCBEURCR (CNP)   | CARD NOT PRESENT | JCB             | INTRA-REGIONAL | CONSUMER CREDIT |
| JCBEURCL (CP)    | CARD PRESENT     | JCB             | INTRA-REGIONAL | COMMERCIAL      |
| JCBEURCL (CNP)   | CARD NOT PRESENT | JCB             | INTRA-REGIONAL | COMMERCIAL      |
| JCBDF (CP)       | CARD PRESENT     | JCB             | UNDEFINED      | UNDEFINED       |
| JCBDF (CNP)      | CARD NOT PRESENT | JCB             | UNDEFINED      | UNDEFINED       |
| AMEXONUSDF (CP)  | CARD PRESENT     | AMEX            | LOCAL          | UNDEFINED       |
| AMEXONUSDF (CNP) | CARD NOT PRESENT | AMEX            | LOCAL          | UNDEFINED       |
| AMEXNEURDF (CP)  | CARD PRESENT     | AMEX            | INTER-REGIONAL | UNDEFINED       |

| MNEMONIC         | TRANSACTION TYPE | NETWORK | CARD ORIGIN    | CARD TYPE |
|------------------|------------------|---------|----------------|-----------|
| AMEXNEURDF (CNP) | CARD NOT PRESENT | AMEX    | INTER-REGIONAL | UNDEFINED |
| AMEXEURDF (CP)   | CARD PRESENT     | AMEX    | INTRA-REGIONAL | UNDEFINED |
| AMEXEURDF (CNP)  | CARD NOT PRESENT | AMEX    | INTRA-REGIONAL | UNDEFINED |