

# **UnifiedPOS**

## **UnifiedPOS Retail Peripheral Architecture Defined Device Statistics**

**Version 1.10.0**

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**International Standard**

**For Implementation of Point Of Service Peripherals**

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### **UnifiedPOS**

UnifiedPOS Retail Peripheral Architecture

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## UnifiedPOS Defined Device Statistics

### Device Category Names

Since some of the POS Device Category programmatic names in the UnifiedPOS specification may not be recognizable outside the Retail POS environment where the Defined Statistics data are being processed, an alternate “long programmatic name” has been assigned where necessary. The correlations of UnifiedPOS programmatic names and alternate long names are defined in the following table.

| UnifiedPOS Device Programmatic Names | Alternate Device Name                 |
|--------------------------------------|---------------------------------------|
| Biometrics                           | Biometrics                            |
| BumpBar                              | BumpBar                               |
| CashChanger                          | CashChanger                           |
| CashDrawer                           | CashDrawer                            |
| CAT                                  | CreditAuthorizationTerminal           |
| CheckScanner                         | CheckScanner                          |
| CoinDispenser                        | CoinDispenser                         |
| ElectronicJournal                    | ElectronicJournal                     |
| FiscalPrinter                        | FiscalPrinter                         |
| HardTotals                           | HardTotals                            |
| Keylock                              | Keylock                               |
| LineDisplay                          | LineDisplay                           |
| MICR                                 | MagneticInkCharacterRecognitionReader |
| MotionSensor                         | MotionSensor                          |
| MSR                                  | MagneticStripeReader                  |
| PINPad                               | PINPad                                |
| PointCardRW                          | PointCardReaderWriter                 |
| POSKeyboard                          | POSKeyboard                           |
| POSPower                             | POSPower                              |
| POSPrinter                           | POSPrinter                            |
| RemoteOrderDisplay                   | RemoteOrderDisplay                    |
| Scale                                | Scale                                 |
| Scanner                              | BarCodeScanner                        |
| SignatureCapture                     | SignatureCapture                      |
| SmartCardRW                          | SmartCardReaderWriter                 |
| ToneIndicator                        | ToneIndicator                         |

## Common Statistics for All Device Categories

The following table contains the definitions of the information contained in the UnifiedPOS defined DeviceInformation section covering all device categories.

| <b>&lt;DeviceInformation&gt;<br/>XML Definition Name</b> | <b>Definition description</b>                     |
|--|---|
| <b>UnifiedPOSVersion</b>                                 | Version of the UnifiedPOS specification supported |
| <b>DeviceCategory</b>                                    | Device category (e.g., POSPrinter)                |
| <b>ManufacturerName</b>                                  | Device manufacturer's name                        |
| <b>ModelName</b>   | Device model name                                 |
| <b>SerialNumber</b>                                      | Device serial number                              |
| <b>ManufactureDate</b>                                   | Device manufacture date                           |
| <b>MechanicalRevision</b>                                | Device hardware revision                          |
| <b>FirmwareRevision</b>                                  | Device firmware revision                          |
| <b>Interface</b>   | Device hardware interface (e.g., serial, USB)     |
| <b>InstallationDate</b>                                  | Device installation date                          |

The following table contains the definitions of the UnifiedPOS defined statistics for all device categories.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>  |
|--|--------------------------------|
| <b>HoursPoweredCount</b>   | Number of hours powered on     |
| <b>CommunicationErrorCount</b>                                     | Number of communication errors |

## XML definitions for Biometrics Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the Biometrics device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>            |
|--|--|
| <b>SuccessfulMatchCount</b>  | Number of successful biometric matches   |
| <b>UnsuccessfulMatchCount</b>                                      | Number of unsuccessful biometric matches |
| <b>AverageFAR</b>  | Average False Accept Rate achieved       |
| <b>AverageFRR</b>  | Average False Reject Rate achieved       |

## XML definitions for BumpBar Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the BumpBar device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>    |
|--|----------------------------------|
| <b>BumpCount</b>   | Number of times bump bar pressed |

### XML definitions for CashDrawer Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the CashDrawer device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>DrawerGoodOpenCount</b>   | Drawer open successes         |
| <b>DrawerFailedOpenCount</b>                                       | Drawer open failures          |

### XML definitions for ElectronicJournal Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the ElectronicJournal device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>                   |
|--|---|
| <b>WriteCount</b>  | Number of writes to the recording medium        |
| <b>FailedWriteCount</b>  | Number of failed writes to the recording medium |
| <b>EraseCount</b>  | Number of times data was erased                 |
| <b>MediumRemovedCount</b>  | Number of times medium was removed              |
| <b>MediumSize</b>  | Amount of storage in bytes                      |
| <b>MediumFreeSpace</b>   | Free space of storage in bytes                  |

### XML definitions for FiscalPrinter Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the FiscalPrinter device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>                           |
|--|---|
| <b>BarcodePrintedCount</b>   | Number of Barcodes printed                              |
| <b>FormInsertionCount</b>  | Number of forms inserted into the document/slip station |
| <b>HomeErrorCount</b>  | Number of home errors                                   |
| <b>JournalCharacterPrintedCount</b>                                | Number of Journal characters printed                    |
| <b>JournalLinePrintedCount</b>                                     | Number of Journal lines printed                         |
| <b>MaximumTempReachedCount</b>                                     | Number of times Maximum temperature reached             |
| <b>NVRAMWriteCount</b>   | Number of times NVRAM is written to                     |
| <b>PaperCutCount</b>   | Number of paper cuts                                    |
| <b>FailedPaperCutCount</b>   | Number of failed paper cuts                             |
| <b>PrinterFaultCount</b>   | Number of Printer faults                                |
| <b>PrintSideChangeCount</b>  | Number of print side changes (or check flips) performed |
| <b>FailedPrintSideChangeCount</b>                                  | Number of print side changes (or check flips) failures  |

|                                     |  |
|-------------------------------------|--|
| <b>ReceiptCharacterPrintedCount</b> | Number of receipt characters printed                   |
| <b>ReceiptCoverOpenCount</b>        | Number of times the receipt cover was opened           |
| <b>ReceiptLineFeedCount</b>         | Number of receipt line feeds performed                 |
| <b>ReceiptLinePrintedCount</b>      | Number of receipt lines printed                        |
| <b>SlipCharacterPrintedCount</b>    | Number of document/slip characters printed             |
| <b>SlipCoverOpenCount</b>           | Number of times the document/slip station cover opened |
| <b>SlipLineFeedCount</b>            | Number of document/slip line feeds performed           |
| <b>SlipLinePrintedCount</b>         | Number of document/slip lines printed                  |
| <b>StampFiredCount</b>              | Number of Stamps fired                                 |

### XML definitions for Keylock Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the Keylock device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>   |
|--|---------------------------------|
| <b>LockPositionChangeCount</b>                                     | Number of lock position changes |

### XML definitions for LineDisplay Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the LineDisplay device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>                           |
|--|---|
| <b>OnlineTransitionCount</b>                                       | Number of online transitions (on after screen blanking) |

### XML definitions for MICR Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the MICR device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>GoodReadCount</b>   | Number of successful reads    |
| <b>FailedReadCount</b>   | Number of failed reads        |
| <b>FailedDataParseCount</b>  | Number of failed data parses  |

### XML definitions for MotionSensor Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the MotionSensor device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>MotionEventCount</b>  | Number of motion occurrences  |

### XML definitions for MSR Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the MSR device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>  |
|--|--|
| <b>GoodReadCount</b>   | Number of successful reads   |
| <b>FailedReadCount</b>   | Number of failed reads   |
| <b>UnreadableCardCount</b>   | Number of unreadable cards   |
| <b>GoodWriteCount</b>  | Number of successful writes  |
| <b>FailedWriteCount</b>  | Number of failed writes  |
| <b>MissingStartSentinelTrack1Count</b>                             | Number of errors with missing start sentinel on track 1 (possible empty track) |
| <b>ParityLRCErrorsTrack1Count</b>                                  | Number of Parity or LRC errors on track 1                                      |
| <b>MissingStartSentinelTrack2Count</b>                             | Number of errors with missing start sentinel on track 2 (possible empty track) |
| <b>ParityLRCErrorsTrack2Count</b>                                  | Number of Parity or LRC errors on track 2                                      |
| <b>MissingStartSentinelTrack3Count</b>                             | Number of errors with missing start sentinel on track 3 (possible empty track) |
| <b>ParityLRCErrorsTrack3Count</b>                                  | Number of Parity or LRC errors on track 3                                      |
| <b>MissingStartSentinelTrack4Count</b>                             | Number of errors with missing start sentinel on track 4 (possible empty track) |
| <b>ParityLRCErrorsTrack4Count</b>                                  | Number of Parity or LRC errors on track 4                                      |

### XML definitions for PINPad Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the PINPad device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>ValidPINEntryCount</b>  | Number of valid PIN entries   |
| <b>InvalidPINEntryCount</b>  | Number of invalid PIN entries |

### XML definitions for POSKeyboard Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the POSKeyboard device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>KeyPressedCount</b>   | Number of keys pressed        |

### XML definitions for POSPrinter Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the POSPrinter device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>                           |
|--|---|
| <b>BarcodePrintedCount</b>   | Number of Barcodes printed                              |
| <b>FormInsertionCount</b>  | Number of forms inserted into the document/slip station |
| <b>HomeErrorCount</b>  | Number of home errors                                   |
| <b>JournalCharacterPrintedCount</b>                                | Number of Journal characters printed                    |
| <b>JournalLinePrintedCount</b>                                     | Number of Journal lines printed                         |
| <b>MaximumTempReachedCount</b>                                     | Number of times Maximum temperature reached             |
| <b>NVRAMWriteCount</b>   | Number of times NVRAM is written to                     |
| <b>PaperCutCount</b>   | Number of paper cuts                                    |
| <b>FailedPaperCutCount</b>   | Number of failed paper cuts                             |
| <b>PrinterFaultCount</b>   | Number of Printer faults                                |
| <b>PrintSideChangeCount</b>  | Number of print side changes (or check flips) performed |
| <b>FailedPrintSideChangeCount</b>                                  | Number of print side changes (or check flips) failures  |
| <b>ReceiptCharacterPrintedCount</b>                                | Number of receipt characters printed                    |
| <b>ReceiptCoverOpenCount</b>                                       | Number of times the receipt cover was opened            |
| <b>ReceiptLineFeedCount</b>  | Number of receipt line feeds performed                  |
| <b>ReceiptLinePrintedCount</b>                                     | Number of receipt lines printed                         |
| <b>SlipCharacterPrintedCount</b>                                   | Number of document/slip characters printed              |
| <b>SlipCoverOpenCount</b>  | Number of times the document/slip station cover opened  |
| <b>SlipLineFeedCount</b>   | Number of document/slip line feeds performed            |
| <b>SlipLinePrintedCount</b>  | Number of document/slip lines printed                   |
| <b>StampFiredCount</b>   | Number of Stamps fired                                  |

### XML definitions for Scale Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the Scale device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>     |
|--|-----------------------------------|
| <b>GoodWeightReadCount</b>   | Number of successful weight reads |

### XML definitions for Scanner Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the Scanner device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>GoodScanCount</b>   | Number of successful scans    |

### XML definitions for SignatureCapture Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the SignatureCapture device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b>          |
|--|--|
| <b>GoodSignatureReadCount</b>                                      | Number of successful signature reads   |
| <b>FailedSignatureReadCount</b>                                    | Number of unsuccessful signature reads |

### XML definitions for ToneIndicator Device Statistics

The following table contains the definitions of the UnifiedPOS defined statistics for the ToneIndicator device category.

| <b>&lt;UnifiedPOSStatisticsContext&gt;<br/>XML Definition Name</b> | <b>Definition description</b> |
|--|-------------------------------|
| <b>ToneSoundedCount</b>  | Number of tones played        |

## **Change History**

### **Release Version 1.8.0**

This is the original release of the document dated January 7, 2004.

### **Release Version 1.9.0**

This release of the document dated January 16, 2005 contained the following updates and corrections. However, any minor typographical changes are not listed below.

- Updated the Version and issue date on the front [page](#).
- Updated the Company Names in the Committee Members list and split into Members and Contributors sections, see [page 3](#).

### **Release Version 1.10.0**

This release of the document dated February 10, 2006 contained the following updates and corrections. However, any minor typographical changes are not listed below.

- Updated the Version and issue date on the front [page](#).
- Updated the Company Names in the Committee Members' and Contributors' lists, see [page 3](#).
- Added statistics for the Biometrics device category, see [page 5](#).
- Added statistics for the ElectronicJournal device category, see [page 6](#).
- Added new statistics to the MSR device category, see [page 8](#).

