**TSP100**
*futurePRNT*

# OPOS CONTROL

# Application Development Guide
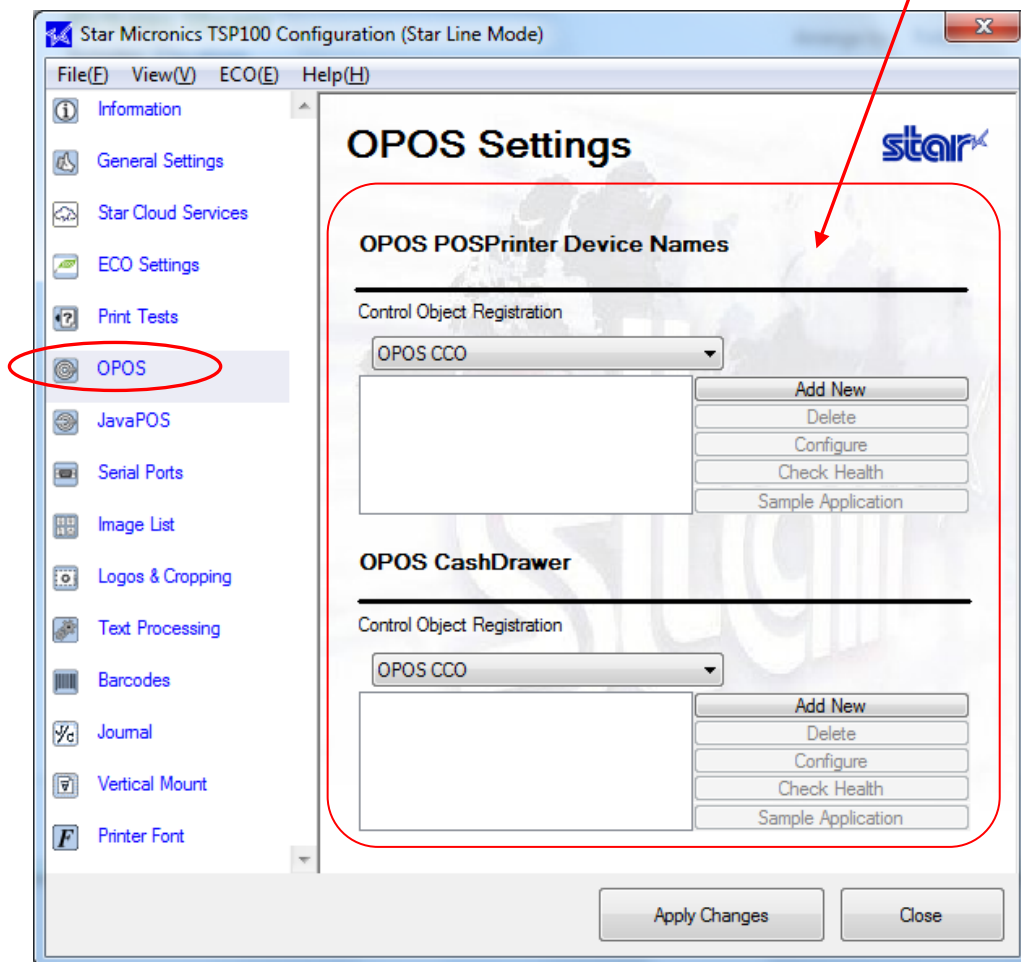
# Contents

# SECTION 1   HOW TO SET UP

From the Windows Start menu, select **Programs, All Programs or All Apps – StarMicronics – Configuration Utility TSP100.**

The OPOS printer driver is included with the Windows driver installation. However, before it can be used with an OPOS application, the printer must be registered.

If a cash drawer is connected to the printer, the cash drawer must also be registered. Registration of the printer and cash drawer is accomplished through the Configuration Utility.

Click the 'OPOS' tab on the left side in Configuration Utility menu bellow to make the configuration.



For OPOS Setting details, see the *TSP100 futurePRNT Software Manual*.

**Note: Before registering a printer or cash drawer, confirm the control object registration status. The registration procedure is different depending on the control object registration status.**

# SECTION 2   CAUTIONS

## 2-1.   POS Printer

1)   Some printers may have the property and the OPOS escape sequence which can be set only at the top of the lines and might be limited at the rotation printing. Refer to the Hardware Manual and Control Guide Book of each device for more detail.

## 2-2.   Cash drawer

1)   During the connected printer is in busy status (e.g. Paper End, Cover Open, etc.), Cash Drawer can not be opened. ResultCode = OPOS_E_TIMEOUT will be may happens.

2)   There is no Beep sound on the WaitForDrawerClose method. 2

# SECTION 3   DIRECTIO USAGE

## 3-1.      POS Printer

- 3 -

DirectIO Method

None

DirectIO Event

None

## 3-2.      Cash drawer

DirectIO Method

None

DirectIO Event

None

# SECTION 4   RESULTCODE LIST

## 4-1.   POS Printer

| Method | ResultCode | ResultCodeExtended |
|---|---|---|
| Open | OPOS_SUCCESS | - |
| | OPOS_E_NOSERVICE | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOEXIST | - |
| Close | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| ClaimDevice | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_TIMEOUT | - |
| ReleaseDevice | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| CheckHealth | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_FAIRULE | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_BUSY | - |
| ClearOutput | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOTCLAIMED | - |
| CompareFirmWareVersion | OPOS_E_BUSY | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_ILLEGAL | - |
| DirectIO | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| ResetStatistics | OPOS_E_BUSY | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_ILLEGAL | - |
| RetrieveStatistics | OPOS_E_BUSY | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_ILLEGAL | - |
| UpdateFirmware | OPOS_E_BUSY | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_ILLEGAL | - |

| Method | ResultCode | ResultCodeExtended |
|---|---|---|
| UpdateStatistics | OPOS_E_BUSY | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_ILLEGAL | - |
| PrintNormal | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_FAIRULE | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| | OPOS_EXTENDED | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_JRN_EMPTY |
| | | OPOS_EPTR_REC_EMPTY |
| | | OPOS_EPTR_SLP_EMPTY |
| PrintTwoNormal | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_BUSY | - |
| PrintImmediate | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_FAIRULE | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_EXTENDED | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_JRN_EMPTY |
| | | OPOS_EPTR_REC_EMPTY |
| | | OPOS_EPTR_SLP_EMPTY |
| BeginInsertion | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| EndInsertion | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_BUSY | - |
| | OPOS_E_EXTENDED | OPOS_EPTR_SLP_EMPTY |

| Method | ResultCode | ResultCodeExtended |
|---|---|---|
| BeginRemoval | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| EndRemoval | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_BUSY | - |
| | OPOS_E_EXTENDED | OPOS_EPTR_SLP_FORM |
| CutPaper | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| | OPOS_EXTENDED | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_REC_EMPTY |
| RotatePrint | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| | OPOS_EXTENDED | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_JRN_EMPTY |
| | | OPOS_EPTR_REC_EMPTY |
| | | OPOS_EPTR_SLP_EMPTY |
| PrintBarCode | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| | OPOS_EXTENDED | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_REC_EMPTY |
| | | OPOS_EPTR_SLP_EMPTY |

| Method | ResultCode | ResultCodeExtended |
|---|---|---|
| PrintBitmap | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_NOEXIST | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| | OPOS_EXTENDED | OPOS_EPTR_TOOBIG |
| | | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_BADFORMAT |
| | | OPOS_EPTR_REC_EMPTY |
| | | OPOS_EPTR_SLP_EMPTY |
| TransactionPrint | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPOS_E_TIMEOUT | - |
| | OPOS_E_BUSY | - |
| | OPOS_EXTENDED | OPOS_EPTR_COVER_OPEN |
| | | OPOS_EPTR_JRN_EMPTY |
| | | OPOS_EPTR_REC_EMPTY |
| | | OPOS_EPTR_SLP_EMPTY |
| ValidateData | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_FAILURE | - |
| | OPOS_EXTENDED | - |
| SetBitmap | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOEXIST | - |
| | OPOS_EXTENDED | OPOS_EPTR_TOOBIG |
| | | OPOS_EPTR_BADFORMAT |
| SetLogo | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |

| Method | ResultCode | ResultCodeExtended |
|---|---|---|
| ChangePrintSide | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | |
| | OPOS_E_DISABLED | |
| | OPOS_E_BUSY | |
| | OPOS_E_ILLEGAL | - |
| MarkFeed | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | |
| | OPOS_E_DISABLED | |
| | OPOS_E_BUSY | |
| | OPOS_E_ILLEGAL | - |
| ClearPrintArea | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | |
| | OPOS_E_DISABLED | |
| | OPOS_E_BUSY | |
| | OPOS_E_ILLEGAL | - |
| PageModePrint | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | |
| | OPOS_E_DISABLED | |
| | OPOS_E_BUSY | |
| | OPOS_E_ILLEGAL | - |
| PrintMemoryBitmap | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | |
| | OPOS_E_DISABLED | |
| | OPOS_E_BUSY | |
| | OPOS_E_ILLEGAL | - |
| DrawRuledLine | OPOS_E_CLOSED | - |
| | OPOS_E_NOTCLAIMED | |
| | OPOS_E_DISABLED | |
| | OPOS_E_BUSY | |
| | OPOS_E_ILLEGAL | - |

## 4-2. Cash drawer

| Method | ResultCode | ResultCodeExtended |
|---|---|---|
| Open | OPOS_SUCCESS | - |
| | OPOS_E_NOSERVICE | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_NOEXIST | - |
| Close | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| ClaimDevice | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_TIMEOUT | - |
| ReleaseDevice | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| CheckHealth | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_CLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_ILLEGAL | - |
| | OPOS_E_BUSY | - |
| CompareFirmWareVersion | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| DirectIO | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| ResetStatistics | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| RetrieveStatistics | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| UpdateFirmware | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| UpdateStatistics | OPOS_E_CLOSED | - |
| | OPOS_E_ILLEGAL | - |
| OpenDrawer | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_CLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_NOHARDWARE | - |
| | OPOS_E_OFFLINE | - |
| | OPES_E_TIMEOUT | |
| | OPOS_E_BUSY | - |
| WaitForDrawerClose | OPOS_SUCCESS | - |
| | OPOS_E_CLOSED | - |
| | OPOS_E_CLAIMED | - |
| | OPOS_E_DISABLED | - |
| | OPOS_E_BUSY | - |

# SECTION 5   PROPERTY LIST

**5-1.    POS Printer**

| Property | TSP143U |
|---|---|
| CapCompareFirmwareVersion | FALSE |
| CapPowerReporting | OPOS_PR_ADVANCED |
| CapStatisticsReporting | FALSE |
| CapUpdateFirmware | FALSE |
| CapUpdateStatistics | FALSE |
| CapCharacterSet | PTR_CCS_ASCII |
| CapConcurrentJrnRec | FALSE |
| CapConcurrentJrnSlp | FALSE |
| CapConcurrentPageMode | FALSE |
| CapConcurrentRecSlp | FALSE |
| CapCoverSensor | TRUE |
| CapMapCharacterSet | TRUE |
| CapTransaction | TRUE |
| CapJrnPresent | FALSE |
| CapJrn2Color | FALSE |
| CapJrnBold | FALSE |
| CapJrnDhigh | FALSE |
| CapJrnDwide | FALSE |
| CapJrnDwideDhigh | FALSE |
| CapJrnEmptySensor | FALSE |
| CapJrnItalic | FALSE |
| CapJrnNearEndSensor | FALSE |
| CapJrnUnderline | FALSE |
| CapJrnCartridgeSensor | 0 |
| CapJrnColor | 0 |
| CapRecPresent | TRUE |
| CapRec2Color | FALSE |
| CapRecBarCode | TRUE |
| CapRecBitmap | TRUE |
| CapRecBold | TRUE |
| CapRecDhigh | TRUE |
| CapRecDwide | TRUE |
| CapRecDwideDhigh | TRUE |
| CapRecEmptySensor | TRUE |
| CapRecItalic | FALSE |
| CapRecLeft90 | FALSE |
| CapRecNearEndSensor | FALSE |
| CapRecPapercut | TRUE |

| Property | TSP143U |
|---|---|
| CapRecRight90 | FALSE |
| CapRecRotate180 | TRUE |
| CapRecStamp | FALSE |
| CapRecUnderline | TRUE |
| CapRecCartridgeSensor | 0 |
| CapRecColor | PTR_COLOR_PRIMARY |
| CapRecMarkFeed | 0 |
| CapRecPageMode | FALSE |
| CapRecRuledLine | FALSE |
| CapSlpPresent | FALSE |
| CapSlpFullslip | FALSE |
| CapSlp2Color | FALSE |
| CapSlpBarCode | FALSE |
| CapSlpBitmap | FALSE |
| CapSlpBold | FALSE |
| CapSlpDhigh | FALSE |
| CapSlpDwide | FALSE |
| CapSlpDwideDhigh | FALSE |
| CapSlpEmptySensor | FALSE |
| CapSlpItalic | FALSE |
| CapSlpLeft90 | FALSE |
| CapSlpNearEndSensor | FALSE |
| CapSlpRight90 | FALSE |
| CapSlpRotate180 | FALSE |
| CapSlpUnderline | FALSE |
| CapSlpBothSidesPrint | FALSE |
| CapSlpCartridgeSensor | 0 |
| CapSlpColor | 0 |
| CapSlipPageMode | FALSE |
| CapSlipRuledLine | FALSE |

## 5-2. Cash drawer

| Property | TSP143U |
|---|---|
| CapCompareFirmwareVersion | FALSE |
| CapPowerReporting | OPOS_PR_ADVANCED |
| CapStatisticsReporting | FALSE |
| CapUpdateFirmware | FALSE |
| CapUpdateStatistics | FALSE |
| CapStatus | TRUE |
| CapStatusMultiDrawerDetect | FALSE |

# SECTION 6   RELEASE HISTORY

| Rev. No. | Date (Month/Year) | Contents |
|----------|-------------------|----------|
| Rev. 1.0 | Jul. 2009 | New Release |
| Rev. 1.1 | Oct. 2021 | Added support for futurePRNT 7.6 |
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