MPOST .NET COM Callable Wrapper Manual

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Change History

Rev	Date	Description of Change
G1	October 22, 2010	Initial Reivision
G2	June 30, 2011	Updated for new function references for migration

1. Introduction

1.1 Purpose

This document serves as an integration manual for those migrating from MPOST OLE or for new integrators who which to have MPOST OLE functionality with the option of moving to MPOST .NET in the future.

1.2 Scope

This manual covers the un/installation process of the MPOST .NET COM Callable Wrapper and will also serve as a migration guide from MPOST OLE. For detailed code examples, please refer to the MPOST COM Callable Wrapper Demo.

1.3 Pre-requisites

In order to install and uninstall the COM Callable wrapper, two utilities will be necessary to add to the PATH environment variable: regasm.exe and gacutil.exe

Regasm.exe
This can be found in the install directory of the.NET framework in the path
C:\WINDOWS\Microsoft.NET\Framework\<version specific directory>.

Gacutil.exe
This can be found with Visual Studio 2005 or later and is only necessary if you want to run your application in a different directory than MPOST .NET.dll.

Setting the Environment Variable
For information on how to modify the path variable, please see the following Microsoft support page:
http://support.microsoft.com/kb/310519

2. Installing the MPOST .NET COM Callable Wrapper (CCW)

2.1 Registering the MPOST .NET type library (tlb)

- Open a command prompt by clicking Start->Run and typing "cmd". Click OK or press enter.
- To navigate to the MPOST .NET Install directory:
  - Type C: and then enter.
  - Type the following, then enter
    - cd "c:\program files\MEI\MPOST .NET\MPOST .NET API"

- ▪ regasm /tlb:com.MPOST.tlb MPOST.dll
  - o You will get the following prompt when the type library has been registered:
    - ▪ "Types Registered Successfully"

This registration process will ensure that your VB application can see the types exported by the MPOST .NET DLL.

2.2 Registering the MPOST .NET DLL into the .NET Global Assembly Cache (GAC)

- Open a command prompt by clicking Start->Run and typing "cmd". Click OK or press enter.
- To navigate to the MPOST .NET Install directory:
  - o Type C: and then enter.
  - o Type the following, then enter
    - ▪ cd "c:\program files\MEI\MPOST .NET\MPOST .NET API"
    - ▪ gacutil /i MPOST.dll
  - o You will get the following prompt when the type library has been registered:
    - ▪ "Assembly successfully added to the cache"

This registration process will ensure that your VB application can see the MPOST .NET DLL assembly regardless of where in the system your application is running.

3. Uninstalling the MPOST .NET COM Callable Wrapper (CCW)

3.1 Unregistering the MPOST .NET type library (tlb)

- Open a command prompt by clicking Start->Run and typing "cmd". Click OK or press enter.
- To navigate to the MPOST .NET Install directory:
  - o Type C: and then enter.
  - o Type the following, then enter
    - ▪ cd "c:\program files\MEI\MPOST .NET\MPOST .NET API"
    - ▪ regasm /unregister MPOST.dll
  - o You will get the following prompt when the type library has been un-registered:
    - ▪ "Types un-registered Successfully"

This unregistration process will ensure that prior MPOST .NET CCW type libraries are uninstalled.

3.2 Unregistering the MPOST .NET DLL into the .NET Global Assembly Cache (GAC)

- Open a command prompt by clicking Start->Run and typing "cmd". Click OK or press enter.
- To navigate to the MPOST .NET Install directory:

- o   Type C: and then enter.
- o   Type the following, then enter
    - ▪   cd "c:\program files\MEI\MPOST .NET\MPOST .NET API"
    - ▪   gacutil /u mpost
- o   You will get the following prompt when the .NET assembly has been unregistered from the GAC:
    - ▪   Number of assemblies uninstalled = 1
    - ▪   Number of failures = 0

This registration process will ensure that prior versions of MPOST .NET DLL have been uninstalled from the GAC.

4. Migrating from MPOST OLE to MPOST .NET CCW

4.1 Starting a new MPOST .NET CCW Project with Microsoft VB6

If you have already built a VB6 application and would like to start using MPOST .NET CCW right away, first follow the installation instructions mentioned earlier in this document. After that, you must add a reference to the MPOST .NET type library by doing the following:

- In Visual Basic 6.0 IDE, click Project->References.
- Add a reference to mscorlib for the .NET interop libraries to be linked with your project
- Add a reference to MEI Point of Service Toolkit

For further details on implementing an MPOST .NET CCW application, please see the MPOST .NET COM Wrapper Demo in the MPOST .NET API installation.

4.2 Migrating MPOST OLE Syntax to MPOST .NET CCW

If you are currently integrated with MPOST OLE and would like to convert your application to operate with MPOST .NET CCW, Table 4.2.1 serves as a code syntax mapping of the commands in MPOST OLE to MPOST .NET CCW.

Please note that the 'Open' function is now overloaded and will be represented in CCW as two different functions:
- Open (portname as string)
- Open_2 (portname as string, powerup as PowerUp)

MPOST OLE V1.14 – Acceptor Class Commands	MPOST .NET V2.10 – Acceptor Class Commands
`(Open)(BSTR portName, PowerUp powerUp);`	`Open(portName As String, powerUp As PowerUp)`

	(There is also a new overloaded method Open(portName as String) that defaults to PowerUp-A)
(Close)(void);	Close()
(EscrowStack)(void);	EscrowStack()
(EscrowReturn)(void);	EscrowReturn()
(Calibrate)(void);	Calibrate()
(FlashDownload)(BSTR filePath);	FlashDownload(string filePath)
(ClearCashBoxTotal)(void);	ClearCashBoxTotal()
(SetAssetNumber)(BSTR asset);	AssetNumber {string property}
(SoftReset)(void);	SoftReset()
(SpecifyEscrowTimeout)(LONG billTimeout, LONG barcodeTimeout);	SpecifyEscrowTimeout(int billTimeout, int barcodeTimeout)
(SpecifyPupExt)(CHAR pupMode, PupExt preEscrow, PupExt atEscrow, PupExt postEscrow, PupExt preStack);	Deprecated
(RawTransaction)(VARIANT command, LONG commandLength, VARIANT* reply);	byte[] RawTransction(ref byte[] payload)
(get_ApplicationID)(BSTR* pVal);	ApplicationID {string property}
(get_ApplicationPN)(BSTR* pVal);	ApplicationPN {string property}
(get_AuditLifeTimeTotals)(VARIANT* pVal);	AuditLifeTimeTotals {int[] property}
(get_AuditPerformance)(VARIANT* pVal);	AuditPerformance {int[] property}
(get_AuditQP)(VARIANT* pVal);	AuditQP {int[] property}
(get_AutoStack)(VARIANT_BOOL* pVal);	AutoStack {bool property}
(put_AutoStack)(VARIANT_BOOL newVal);	AutoStack {bool property}
(get_BarCode)(BSTR* pVal);	BarCode {string property}
(get_Bill)(IBill pVal);**	Bill {Bill property}
(get_BillTypes)(VARIANT* pVal);	BillTypes {Bill[] property}
(get_BillTypeEnables)(VARIANT* pVal);	bool[] GetBillTypeEnables()
(put_BillTypeEnables)(VARIANT pVal);	SetBillTypeEnables(bool[] billTypeEnables)
(get_BillValues)(VARIANT* pVal);	BillValues {Bill[] property}
(get_BillValueEnables)(VARIANT* pVal);	bool[] GetBillValueEnables()
(put_BillValueEnables)(VARIANT pVal);	SetBillValueEnables(bool[] billValueEnables)
(get_BNFStatus)(BNFStatus* pVal);	BNFStatus {BNFStatus property}
(get_BootPN)(BSTR* pVal);	BootPN {string property}
(get_CapApplicationID)(VARIANT_BOOL* pVal);	CapApplicationID {bool property}
(get_CapApplicationPN)(VARIANT_BOOL*	CapApplicationPN {bool

pVal);	property}
(get_CapAssetNumber)(VARIANT_BOOL* pVal);	CapAssetNumber {bool property}
(get_CapAudit)(VARIANT_BOOL* pVal);	CapAudit {bool property}
(get_CapBarCodes)(VARIANT_BOOL* pVal);	CapBarCodes {bool property}
(get_CapBarCodesExt)(VARIANT_BOOL* pVal);	CapBarCodesExt {bool property}
(get_CapBNFStatus)(VARIANT_BOOL* pVal);	CapBNFStatus {bool property}
(get_CapBookmark)(VARIANT_BOOL* pVal);	CapBookmark {bool property}
(get_CapBootPN)(VARIANT_BOOL* pVal);	CapBootPN {bool property}
(get_CapCalibrate)(VARIANT_BOOL* pVal);	CapCalibrate {bool property}
(get_CapCashBoxTotal)(VARIANT_BOOL* pVal);	CapCashBoxTotal {bool property}
(get_CapCouponExt)(VARIANT_BOOL* pVal);	CapCouponExt {bool property}
(get_CapDevicePaused)(VARIANT_BOOL* pVal);	CapDevicePaused {bool property}
(get_CapDeviceSoftReset)(VARIANT_BOOL* pVal);	CapDeviceSoftReset {bool property}
(get_CapDeviceType)(VARIANT_BOOL* pVal);	CapDeviceType {bool property}
(get_CapDeviceResets)(VARIANT_BOOL* pVal);	CapDeviceResets {bool property}
(get_CapDeviceSerialNumber)(VARIANT_BOOL * pVal);	CapDeviceSerialNumber {bool property}
(get_CapEscrowTimeout)(VARIANT_BOOL* pVal);	CapEscrowTimeout {bool property}
(get_CapFlashDownload)(VARIANT_BOOL* pVal);	CapFlashDownload {bool property}
(get_CapNoPush)(VARIANT_BOOL* pVal);	CapNoPush {bool property}
(get_CapOrientationExt)(VARIANT_BOOL* pVal);	CapOrientationExt {bool property}
(get_CapPupExt)(VARIANT_BOOL* pVal);	CapPupExt {bool property}
(get_CapTestDoc)(VARIANT_BOOL* pVal);	CapTestDoc {bool property}
(get_CapVariantID)(VARIANT_BOOL* pVal);	CapVariantID {bool property}
(get_CapVariantPN)(VARIANT_BOOL* pVal);	CapVariantPN {bool property}
(get_CashBoxAttached)(VARIANT_BOOL* pVal);	CapCashBoxAttached {bool property}
(get_CashBoxFull)(VARIANT_BOOL* pVal);	CashBoxFull {bool property}
(get_CashBoxTotal)(LONG* pVal);	CashBoxTotal {int property}
(get_IsConnected)(VARIANT_BOOL* pVal);	Connected {bool property}
(get_Coupon)(ICoupon pVal);**	Coupon {Coupon property}
(get_DebugLog)(VARIANT_BOOL* pVal);	DebugLog {bool property}
(put_DebugLog)(VARIANT_BOOL newVal);	DebugLog {bool property}
(get_DebugLogPath)(BSTR* pVal);	DebugLogPath {string property}

(put_DebugLogPath)(BSTR newVal);	DebugLogPath {string property}
(get_DeviceBusy)(VARIANT_BOOL* pVal);	DeviceBusy {bool property}
(get_DeviceCRC)(LONG* pVal);	DeviceCRC {int property}
(get_DeviceFailure)(VARIANT_BOOL* pVal);	DeviceFailure {bool property}
(get_DeviceJammed)(VARIANT_BOOL* pVal);	DeviceJammed {bool property}
(get_DeviceModel)(LONG* pVal);	DeviceModel {int property}
(get_DevicePaused)(VARIANT_BOOL* pVal);	DevicePaused {bool property}
(get_DevicePortName)(BSTR* pVal);	DevicePortName {string property}
(get_DevicePowerUp)(PowerUp* pVal);	DevicePowerUp {PowerUp property}
(get_DeviceResets)(LONG* pVal);	DeviceResets {int property}
(get_DeviceRevision)(LONG* pVal);	DeviceRevision {int property}
(get_DeviceSerialNumber)(BSTR* pVal);	DeviceSerialNumber {string property}
(get_DeviceStalled)(VARIANT_BOOL* pVal);	DeviceStalled {bool property}
(get_DeviceState)(State* pVal);	DeviceState {State property}
(get_DeviceType)(BSTR* pVal);	DeviceType {string property}
(get_DisconnectTimeout)(LONG* pVal);	DisconnectTimeout {bool property}
(put_DisconnectTimeout)(LONG newVal);	DisconnectTimeout {bool property}
(get_DocType)(DocumentType* pVal);	DocType {DocumentType property}
(get_EnableAcceptance)(VARIANT_BOOL* pVal);	EnableAcceptance {bool property}
(put_EnableAcceptance)(VARIANT_BOOL newVal);	EnableAcceptance {bool property}
(get_EnableBarCodes)(VARIANT_BOOL* pVal);	EnableBarCodes {bool property}
(put_EnableBarCodes)(VARIANT_BOOL newVal);	EnableBarCodes {bool property}
(get_EnableCouponExt)(VARIANT_BOOL* pVal);	EnableCouponExt {bool property}
(put_EnableCouponExt)(VARIANT_BOOL newVal);	EnableCouponExt {bool property}
(get_EnableNoPush)(VARIANT_BOOL* pVal);	EnableNoPush {bool property}
(put_EnableNoPush)(VARIANT_BOOL newVal);	EnableNoPush {bool property}
(get_EscrowOrientation)(Orientation* pVal);	EscrowOrientation {Orientation property}
(get_HighSecurity)(VARIANT_BOOL* pVal);	HighSecurity {bool property}
(put_HighSecurity)(VARIANT_BOOL newVal);	HighSecurity {bool property}
(get_OrientationControl)(OrientationControl* pVal);	OrientationCtl {OrientationControl property}

`(put_OrientationControl)(OrientationControl newVal);`	`OrientationCtl` `{OrientationControl property}`
`(get_OrientationCtlExt)(OrientationControl* pVal);`	`OrientationCtlExt` `{OrientationControl property}`
`(put_OrientationCtlExt)(OrientationControl newVal);`	`OrientationCtlExt` `{OrientationControl property}`
`(get_VariantNames)(VARIANT* pVal);`	`VariantNames {string[] property}`
`(get_VariantID)(BSTR* pVal);`	`VariantID {string property}`
`(get_VariantPN)(BSTR* pVal);`	`VariantPN {string property}`
`(get_Version)(BSTR* pVal);`	`APIVersion {string property}`

Table 4.2.1 – MPOST OLE Syntax to MPOST .NET CCW Syntax Conversion table