



COM Sync Suite Reference

**Palm OS® Conduit Development Kit for
Windows, Version 6.0.1**

Written by Brent Gossett.

Technical assistance from Ravikumar Duggaraju and Giovanni Marais.

Copyright © 2000-2004, PalmSource, Inc. and its affiliates. All rights reserved. This technical documentation contains confidential and proprietary information of PalmSource, Inc. ("PalmSource"), and is provided to the licensee ("you") under the terms of a Nondisclosure Agreement, Product Development Kit license, Software Development Kit license or similar agreement between you and PalmSource. You must use commercially reasonable efforts to maintain the confidentiality of this technical documentation. You may print and copy this technical documentation solely for the permitted uses specified in your agreement with PalmSource. In addition, you may make up to two (2) copies of this technical documentation for archival and backup purposes. All copies of this technical documentation remain the property of PalmSource, and you agree to return or destroy them at PalmSource's written request. Except for the foregoing or as authorized in your agreement with PalmSource, you may not copy or distribute any part of this technical documentation in any form or by any means without express written consent from PalmSource, Inc., and you may not modify this technical documentation or make any derivative work of it (such as a translation, localization, transformation or adaptation) without express written consent from PalmSource.

PalmSource, Inc. reserves the right to revise this technical documentation from time to time, and is not obligated to notify you of any revisions.

THIS TECHNICAL DOCUMENTATION IS PROVIDED ON AN "AS IS" BASIS. NEITHER PALMSOURCE NOR ITS SUPPLIERS MAKES, AND EACH OF THEM EXPRESSLY EXCLUDES AND DISCLAIMS TO THE FULL EXTENT ALLOWED BY APPLICABLE LAW, ANY REPRESENTATIONS OR WARRANTIES REGARDING THIS TECHNICAL DOCUMENTATION, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTIES IMPLIED BY ANY COURSE OF DEALING OR COURSE OF PERFORMANCE AND ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, ACCURACY, AND SATISFACTORY QUALITY. PALMSOURCE AND ITS SUPPLIERS MAKE NO REPRESENTATIONS OR WARRANTIES THAT THIS TECHNICAL DOCUMENTATION IS FREE OF ERRORS OR IS SUITABLE FOR YOUR USE. TO THE FULL EXTENT ALLOWED BY APPLICABLE LAW, PALMSOURCE, INC. ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES OF ANY KIND ARISING OUT OF OR IN ANY WAY RELATED TO THIS TECHNICAL DOCUMENTATION, INCLUDING WITHOUT LIMITATION DAMAGES FOR LOST REVENUE OR PROFITS, LOST BUSINESS, LOST GOODWILL, LOST INFORMATION OR DATA, BUSINESS INTERRUPTION, SERVICES STOPPAGE, IMPAIRMENT OF OTHER GOODS, COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, OR OTHER FINANCIAL LOSS, EVEN IF PALMSOURCE, INC. OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR IF SUCH DAMAGES COULD HAVE BEEN REASONABLY FORESEEN.

PalmSource, the PalmSource logo, BeOS, Graffiti, HandFAX, HandMAIL, HandPHONE, HandSTAMP, HandWEB, HotSync, the HotSync logo, iMessenger, MultiMail, MyPalm, Palm, the Palm logo, the Palm trade dress, Palm Computing, Palm OS, Palm Powered, PalmConnect, PalmGear, PalmGlove, PalmModem, Palm Pack, PalmPak, PalmPix, PalmPower, PalmPrint, Palm.Net, Palm Reader, Palm Talk, Simply Palm and ThinAir are trademarks of PalmSource, Inc. or its affiliates. All other product and brand names may be trademarks or registered trademarks of their respective owners.

IF THIS TECHNICAL DOCUMENTATION IS PROVIDED ON A COMPACT DISC, THE SOFTWARE AND OTHER DOCUMENTATION ON THE COMPACT DISC ARE SUBJECT TO THE LICENSE AGREEMENTS ACCOMPANYING THE SOFTWARE AND OTHER DOCUMENTATION.

COM Sync Suite Reference

Document Number 3022-006

May 14, 2004

For the latest version of this document, visit

<http://www.palmos.com/dev/support/docs/>.

PalmSource, Inc.

1240 Crossman Avenue

Sunnyvale, CA 94089

USA

www.palmsource.com

Table of Contents

About This Document	xxi
Related Documentation	xxii
What this Document Contains	xxiii
Changes to This Document	xxiv
Document 3022-006 for CDK 6.0.1	xxiv
Document 3022-005 for CDK 6.0	xxv
Document 3022-004 for CDK 6.0	xxv
Conventions Used in this Document	xxvii
Programming Style in This Manual	xxviii
Additional Resources	xxix
 1 Introduction	 1
Sample Object Description	2
Sample Method Description	3
Sample Property Description	4
 2 IPDClientNotify Interface	 5
IPDClientNotify	5
 3 Objects	 7
DmCategories	8
DmDatabaseInfo	10
DmDatabaseQuery	12
DmRecordAdapter	13
PDAddressDbHHRecord	16
PDAddressDbHHRecordAdapter	19
PDCategories	24
PDCondMgr	26
PDConduitInfo	28
PDDatabaseInfo	30
PDDatabaseQuery	32
PDDateBookDbHHRecord	34
PDDateBookDbHHRecord2	37
PDDateBookDbHHRecordAdapter	40

PDDateBookDbHHRecordAdapter2	45
PDExpansionCardInfo	50
PDExpansionManager.	51
PDHotsyncInfo.	52
PDHotSyncUtility	54
PDInstall	56
PDInstallConduit	58
PDInstallConduitInfo	59
PDMemoDbHHRecord	60
PDMemoDbHHRecordAdapter	61
PDMemoryCardInfo	65
PDRecordAdapter	66
PDResourceAdapter	69
PDSystemAdapter	71
PDSystemCondMgr.	73
PDToDoDbHHRecord	75
PDToDoDbHHRecordAdapter	77
PDUserData	82
PDUserInfo	85
PDUtility	86
PDVFSFileManager	88
PDVFSManager	90
PDVFSVolumeManager	91
PSDCategoryAdapter	94
PSDColumnInfo	95
PSDDatabaseAdapter	96
PSDDatabaseInfo	98
PSDDatabaseQuery	100
PSDDatabaseUtilities	102
PSDRowAdapter	104
PSDRowData	106
PSDRowSet	108
PSDTable	109

4 Methods

111

AddCategory	112
AddCategoryMembership	113
AddColumn	114
AddLogEntry	115
AddNewUser	117
AddRow	118
AddTable	119
AllBytesToBSTR	120
AttachToTable	121
BackupDatabase	122
BackupSecurityData	125
BeginProcess	126
BSTRToByteArray	127
BSTRToDWORD	128
ByteArrayToBSTR	129
ByteArrayToDWORD	130
ByteArrayToHexBSTR.	131
ByteArrayToRecordId	133
ByteArrayToWORD.	134
CallDeviceApplication	135
CallRemoteModule	139
CfgConduit	143
ChangeCategory	145
ChangeFileDestinationHHToSlot	146
ChangeFileDestinationSlotToHH	148
ChangeFileSlotDestination.	150
Close	152
CloseDatabase	153
ConfigureConduit	154
CopyFileFromDeskTop	156
CopyFileToDeskTop	158
CreateDatabase.	160
CreateDirectory	161
CreateFile	163

CreateRecordDatabase	165
CreateResourceDatabase.	167
CreatorIDToString	169
Delete	170
DeleteAllRowsInTable.	172
DeleteDatabase.	173
DeleteKey	174
DeleteRow.	175
DeleteRowsInCategory	176
DeleteUser.	177
DeleteUserPermanentSyncPreferences.	178
DeleteUserTemporarySyncPreferences.	180
DisplayLog	182
DWORDToBSTR	183
DWORDToByteArray	184
ExportDatabaseToFile	186
Format	188
GenerateBackupFileName	190
GetAllQueuedHHFiles	192
GetAllQueuedHHFilesOfType	193
GetAllQueuedSlotFiles	194
GetBackupConduit	196
GetCardInfo	197
GetCategoryAdapter	198
GetCategoryCount	199
GetCategoryMembership	200
GetChangeContext	201
GetColumnCount.	203
GetColumnCustomProperty	204
GetColumnIDList.	205
GetColumnInfoByID	206
GetColumnInfoByName.	207
GetColumnNames	208
GetColumnsWithData.	209
GetCommStatus	210

GetConduitCount	211
GetConduitInfo	212
GetConduitInfo	213
GetConduitList.	217
GetCount	218
GetCurrentRowID	219
GetDatabaseHandle.	220
GetDatabaseInfo	221
GetDataSize	222
GetDataType.	223
GetDefaultDirectory	224
GetDeskTopTrustStatus	226
GetDWORDData	227
GetExceptionDates	229
GetFileList.	230
GetHHFileSize	232
GetIDFromName	233
GetIDFromPath	234
GetIDList	235
GetIntegerValue	236
GetModifiedIDList	237
GetModifiedTableNames	238
GetNameList.	239
GetNotifierList	240
GetPath	241
GetRootDirectory.	242
GetRowAdapter	243
GetRowCount	244
GetRowCountInTable	245
GetSlotCount	246
GetSlotDisplayName	247
GetSlotFileCount	248
GetSlotFileSize	249
GetSlotInfo	250
GetSlotInstallDirectory	252

GetSlotList.	254
GetSlotMediaType	255
GetSlotReferenceNumbers	256
GetStringData	257
GetStringValue	259
GetSubDirectoryList	260
GetSyncTypeInfo	262
GetTableCount	263
GetTableInfo	264
GetTableNames	265
GetUserCount	266
GetUserDirectory.	267
GetUserList	268
GetUserNameFromID.	269
GetUserPassword.	270
GetUserPermanentSyncPreferences	271
GetUserTemporarySyncPreferences	272
GetVolumeCount	273
GetVolumeManager.	274
GetVolumeReferenceList.	275
HHOsVersion	277
ImportDatabaseFromFile	278
InstallAndBackupDatabase	280
InstallDatabase	282
InstallFileToHH	283
InstallFileToSlot	285
IsArchived.	287
IsDatabaseBackupNeeded	288
IsDataModified.	291
IsDeleted	292
IsDirty	293
IsExpansionSlotPresent	294
IsMembershipModified	295
IsProfileUser	296
IsRowInCategory	297

IsSyncInProgress	298
IsVolumeAvailable	299
LaunchCustomDlg	300
LaunchFileLinkDlg	301
LaunchSetupDlg	302
ModifyNotifier	303
ModifyRow	305
MoveFirst	306
MoveLast	307
MoveNext	308
MovePrevious	309
MoveRowsToCategory	310
MoveTo	311
Open	312
OpenDatabase	314
OpenRecordDatabase	315
OpenResourceDatabase	317
PurgeAllRowsInTable	318
Read	319
ReadAppInfoBlock	321
ReadAppPreference.	322
ReadBackupImageInfo	323
ReadById	324
ReadByIndex.	326
ReadColumnValue	328
ReadColumnValues.	329
ReadDatabaseInfoByName.	330
ReadDatabaseInfoByNameCreator	331
ReadDatabaseNameList	332
ReadDatabaseNameList	333
ReadDbInfoByCreatorType	334
ReadDbInfoByName	336
ReadDbNameList.	337
ReadFeature	338
ReadIDList	339

ReadModifiedIDList	340
ReadModifiedRows	341
ReadNext	342
ReadNextInCategory	344
ReadNextModified	346
ReadNextModifiedInCategory	348
ReadNextResource	350
ReadResource	351
ReadRow	352
ReadRowInfo	353
ReadRows	354
ReadRowsByIDList	355
ReadSortInfoBlock	356
ReadUniqueIDList	357
RebootSystem	359
RecordIdToByteArray	360
RecordIdToString	362
Refresh	363
RefreshConduitInfo	364
RegisterConduit	365
RegisterIC	368
RegisterNotifier	370
Remove	371
RemoveAllResources	372
RemoveAllSecretRowsInTable	373
RemoveCategory	374
RemoveCategoryFromAllRows	375
RemoveCategoryMembership	376
RemoveColumnCustomProperty	377
RemoveColumns	378
RemoveDatabase	379
RemoveFileFromHHQueue	380
RemoveFileFromSlotQueue	381
RemoveResource	382
RemoveRow	383

RemoveSet.	384
RemoveTable.	385
RemoveUserTemporarySyncPreferences	386
Rename	388
RenameCategory	390
ResetAllModifiedFlags	391
ResetComm	392
ResetDirtyFlags	393
RestartHotSyncMgr.	394
RestoreSecurityData	395
Save	396
Seek	397
SetBackupConduit	399
SetCategoryMembership	400
SetColumnCustomProperty	401
SetCommStatus	402
SetDWORDData	403
SetExceptionDates	405
SetIntegerValue.	406
SetPath	407
SetStringData	408
SetStringValue	410
SetUserDirectory	411
SetUserName	412
SetUserPermanentSyncPreferences	413
SetUserTemporarySyncPreferences	415
StartHotSyncMgr.	417
StringToCreatorID	418
StringToRecordId.	419
SwapDWORD	420
SwapWORD	421
SyncMgrAPIVersion	422
Tell	423
TerminateHotSyncMgr	424
UnregisterConduit	425

UnregisterIC	426
UnregisterNotifier	428
WORDToByteArray	429
Write	430
Write	432
WriteAppInfoBlock	434
WriteAppPreference	435
WriteColumnValue	436
WriteColumnValues.	437
WriteResource	438
WriteSortInfoBlock	439

5 Properties 441

AccessMode	442
Address	443
AlarmAdvanceTime	443
AlarmAdvanceUnits	443
AppInfoSize	444
Attributes	444
Attributes	445
BackupDate	445
BOF.	446
CapabilityFlags.	446
CardName.	446
CardNum	447
CardVersion	447
CategoryId	448
CategoryIDList.	449
City.	449
CloseOptions	450
ColumnIDFromName	451
ColumnNameFromID.	451
COMClassID.	452
Company	452
ConnectionType	453

Country	453
CreateDate.	454
CreationDate.	454
CreationDate.	455
Creator	456
CreatorID	456
CreatorID	457
Custom1	457
Custom2	457
Custom3	458
Custom4	458
DataBytes	458
DataType	459
DateTime	460
DaysMaskForWeeklyRepeat	461
DbFlags	462
DbIndex.	463
DbName	463
DbType	464
Description	464
DeskTopDataDirectory	465
DeskTopDataFile	466
DeviceClass	466
DeviceUniqueId	467
Directory	467
Dirty	468
DisplayName	468
DisplayName	470
DisplayPhone	470
DmCategories	471
DmDatabaseInfo	472
DueDate.	472
Dynamic	473
Encoding	473
EndTime	473

EOF.	474
ExcludeFromSync	476
Extension	476
FileName	477
FileSystemType.	477
FirstName	478
FirstSync	478
Flags	479
FreeRamSize	479
HandHeldDB	480
ID	480
Index	481
InputBufferSize.	481
IsAlarmSet.	483
IsArchived.	483
IsCompleted	483
IsDataPresent	484
IsDeleted	484
IsDirty	484
IsEventNotTimed.	485
IsEventRepeatable	485
IsPrivate.	485
IsPrivate.	486
IsRam.	486
IsReadOnly	487
IsReadOnlyDatabase	487
IsSecureDatabase	487
IterationIndex	488
JavaClassName.	488
JavaClassPath	489
Label	490
LastAccessedDate	490
LastId.	491
LastModificationDate	491
LastName	492

LastSyncDate	492
LastSyncPC	492
LocalizationId	493
LocalName	493
ManufacturerName	493
ManufName	494
Mask	494
MaxAllowedRecordSize	495
MaxRecordSize	496
MaxSize	496
MediaType	497
Memo	499
ModCount	499
ModDate	500
ModifyDate	500
ModifyNumber	500
Module	501
mountClass	501
Name	502
Name	503
Name	504
Name	504
Name	504
Name	505
NameList	505
NonSyncable	506
Notes	506
Password	507
PathName	507
PDCategories	508
PDDatabaseInfo	509
PDHotsyncInfo	509
PDMemoryCardInfo	510
PDUserInfo	510
Phone1	511

Phone2	511
Phone3	511
Phone4	511
Phone5	512
PhoneLabel1	512
PhoneLabel2	512
PhoneLabel3	513
PhoneLabel4	513
PhoneLabel5	513
Priority	514
ProductId	514
ProductName	515
RamDbCount	515
RamSize.	515
RecordCount.	516
RegistryKey	516
RegistryPath	517
RemoteNameCount.	517
RepeatDay.	518
RepeatEndDate.	518
RepeatFrequency	519
RepeatType	519
RomDbCount	520
RomSize.	520
RomSoftwareVersion	521
RowCount.	521
RowID	521
Size	522
SlotLibRefNumber	522
SlotReferenceNumber	522
SortInfoSize	523
StartTime	523
State	524
SyncType	524
TableCount	525

TableName	525
Title.	525
TotalBytes	526
TotalCapacity	526
Type	527
UniqueId	528
UsedSpace.	528
UserId	529
UserName.	529
Value	530
ValueByID.	530
Version	531
ViewerId	531
WeekIndexForMonthlyRepeatByDay	532
WritableExceptionInReadOnlyRows	532
ZipCode.	532

6 Constants

533

Database Information Flags	534
EAccessModes	534
EConnectionType.	535
EDbFlags	535
EFirstSync	537
EGetConduitInfo	537
ELogActivity.	540
EMfcVersion	543
EPDAlarmAdvTimeUnits	543
EPDDayIndex	544
EPDDisplayPhone	545
EPDFileOrigin	545
EPDHSConnectionStatus	546
EPDHSConnectionType	546
EPDPathType	547
EPDPhoneLabels	548
EPDRepeatType	549

EPDRunOptions	550
EPDSlotMediaType	551
EPDUserSyncAction	552
EPDVFSFileOpenAttr	553
EPDVFSFileSystemType	554
EPDWeekIndex.	555
EPSDCloseOptions	555
EPSDColumnType	556
EPSDDatabaseFlags.	558
EPSDDBAttribute.	560
EPSDDesktopTrustStatus	561
EPSEncodingType.	562
EPSDMatchMode.	566
EPSDOpenMode	566
EPSDSearch	567
EPSDShareMode	567
EPSDSyncAtom	568
EPSDSyncType	568
ERecordAttributes	569
ERemoveSetType	569
ESyncPref	570
ESyncTypes	570
EUpdateDbDates	571
Hardware Capability Flags.	571
HotSync Manager Start Options Constants.	572
VFS File and Directory Attributes.	574
VFS Manager and Expansion Manager Media Type Constants	575
VFS Volume Attributes	576
VFS Volume Mount Class Constants.	577

7 Errors	579
COM Sync Error Codes	580

A Revision History	591
Changes in COM Sync Suite 6.0.1	591
Changes in COM Sync Suite 6.0.	593
Extended Database Objects	593
Schema Database Objects	594
Miscellaneous Changes	594
Changes in COM Sync Suite 4.03	595
Installation and Support Objects	595
Expansion Manager and VFS Manager Objects	595
PIM Database and Record Objects	596
Changes in COM Sync Suite 4.01/4.02/4.02a	596
 B Private Methods and Properties	 597
 Index	 599

About This Document

The COM Sync Suite is a component of the Palm OS® Conduit Development Kit (CDK) for Windows from PalmSource, Inc. This suite provides COM objects/methods/properties, the IPDClientNotify interface, COM Sync software layer, documents, and utilities to help developers create COM-based conduits that run on Windows computers. Key to the success of the Palm OS platform, conduits are software objects that exchange and synchronize data between an application running on a desktop computer and a Palm Powered™ handheld.

The COM Sync Suite Reference describes the COM Sync Suite object hierarchy and provides a prototype of each object, method, and property. This document provides Visual Basic prototypes, parameters, and examples.

The sections in this introduction are:

- [Related Documentation](#)
- [What this Document Contains](#)
- [Changes to This Document](#)
- [Conventions Used in this Document](#)
- [Additional Resources](#)

About This Document

Related Documentation

Related Documentation

The latest versions of the documents described in this section can be found at

<http://www.palmos.com/dev/support/docs/>

The following documents are part of the CDK:

Document	Description
<i>Introduction to Conduit Development</i>	An introduction to conduits on the Windows platform. It describes how they relate to other aspects of the Palm OS platform, how they communicate with the HotSync [®] Manager, and how to choose an approach to conduit development. Recommended reading for developers new to conduits.
<i>C/C++ Sync Suite Companion</i>	An overview of how C API-based conduits operate and how to develop them with the C/C++ Sync Suite.
<i>C/C++ Sync Suite Reference</i>	A C API reference that contains descriptions of all conduit function calls and important data structures used to develop conduits with the C/C++ Sync Suite.
<i>COM Sync Suite Companion</i>	An overview of how COM-based conduits operate and how to develop them with the COM Sync Suite.
<i>COM Sync Suite Reference</i>	A reference for the COM Sync Suite object hierarchy, detailing each object, method, and property.
<i>Conduit Development Utilities Guide</i>	A guide to the CDK utilities that help developers create and debug conduits for Windows.

What this Document Contains

This section provides an overview of the major parts of this document and the chapters in each.

[Chapter 1, “Introduction.”](#) Describes the COM Sync Suite’s object model and error handling.

[Chapter 2, “IPDClientNotify Interface.”](#) Specifies the IPDClientNotify interface.

[Chapter 3, “Objects.”](#) Describes all COM Sync objects in alphabetical order.

[Chapter 4, “Methods.”](#) Describes all COM Sync methods in alphabetical order.

[Chapter 5, “Properties.”](#) Describes all COM Sync properties in alphabetical order.

[Chapter 6, “Constants.”](#) Describes all COM Sync constants in alphabetical order.

[Chapter 7, “Errors.”](#) Describes all COM Sync errors in alphabetical order.

[Appendix A, “Revision History.”](#) Lists significant additions and changes in each release of the COM Sync Suite.

[Appendix B, “Private Methods and Properties.”](#) Lists all of the private methods and properties in the COM Sync module.

Changes to This Document

This section describes significant changes made in each version of this document. For additions and changes to COM Sync Suite APIs in each version of the CDK, see [Appendix A](#), “[Revision History](#),” on page 591.

- [Document 3022-006 for CDK 6.0.1](#)
- [Document 3022-005 for CDK 6.0](#)
- [Document 3022-004 for CDK 6.0](#)

Document 3022-006 for CDK 6.0.1

The significant corrections and additions in this document version are listed by chapter below:

- [Chapter 4](#), “[Methods](#),” on page 111.
 - Updated example implementation of [GetConduitInfo\(\)](#) to show use of new [EGetConduitInfo](#) enum values to opt out of default behaviors.
 - Noted limitations on [CallRemoteModule\(\)](#) and described how to use it with both Palm OS Cobalt and Palm OS Garnet handhelds.
 - Noted that [ExportDatabaseToFile\(\)](#) and [ImportDatabaseFromFile\(\)](#) work only with classic databases.
 - Expanded the description of [GenerateBackupFileName\(\)](#) and [InstallDatabase\(\)](#).
- [Chapter 5](#), “[Properties](#),” on page 441.
 - Expanded the description of [SyncType](#).
- [Appendix A](#), “[Revision History](#),” on page 591.

Added section that lists all API additions to the COM Sync Suite in CDK 6.0.1. This section lists additions made to this document, which are not listed above.

Document 3022-005 for CDK 6.0

The significant changes are listed by chapter below:

- [Chapter 4, “Methods,”](#) on page 111.
 - Added that the result of calling [CallRemoteModule\(\)](#) is indeterminate in a rare case.
 - Noted that [ExportDatabaseToFile\(\)](#) and [ImportDatabaseFromFile\(\)](#) do not work with schema databases.
 - Noted that it is not necessary to call [RefreshConduitInfo\(\)](#) or [RestartHotSyncMgr\(\)](#) to make HotSync Manager versions 6.0 or later recognize a newly registered conduit.

Document 3022-004 for CDK 6.0

Most of the changes in this version describe the new objects that enable you to access extended and schema databases introduced in Sync Manager API version 2.4 (HotSync Manager 6.0). These and other changes are listed below in chapter order:

- [Chapter 3, “Objects,”](#) on page 7.
 - Added [PDDateBookDbHHRecord2](#) and [PDDateBookDbHHRecordAdapter2](#) objects, which were added to COM Sync in an update released shortly after CDK 4.03. These objects support classic Date Book records that have exceptions to a repeating event.
 - Added objects for accessing [extended databases](#). See the list of these objects in “[Extended Database Objects](#)” on page 593.
 - Added objects for accessing [schema databases](#). See the list of these objects in “[Schema Database Objects](#)” on page 594.
- [Chapter 4, “Methods,”](#) on page 111.
 - Added [GetExceptionDates\(\)](#) and [SetExceptionDates\(\)](#) methods to handle exception dates in the [PDDateBookDbHHRecord2](#) object.
 - Added methods for extended and schema database objects.

About This Document

Changes to This Document

- [Chapter 5](#), “[Properties](#),” on page 441.
 - Added [DisplayPhone](#) property, which had been erroneously left out of the previous version of this document.
 - Added properties for extended and schema database objects.

Conventions Used in this Document

This guide uses the following typographical conventions:

This style...	Is used for...
sample	Literal text such as filenames, commands, code elements such as functions, structures, and so on.
<i>sample</i>	Emphasis or to indicate a variable.
sample	Definition or first usage of a term, menu and menu item names, user-supplied text, window names in UI descriptions.
Sub, If, Case Else, Print, Long	Words with initial letter capitalized indicate Visual Basic language-specific keywords.
setup	Words you're instructed to type appear in bold.
<i>variable</i>	In prototype and text, placeholders for information you supply.
<i>variable</i>	In prototype and text, method or property parameters. .
[<i>expressionlist</i>]	In prototype, items inside square brackets are optional.
{While Until}	In prototype, braces and a vertical bar indicate a choice between two or more items. You must choose one of the items unless all of the items are optional and are enclosed in square brackets.
Sub HelloButton_Click() Readout.Text = _ "Hello, world!" End Sub	This font is used for code and prototypes.
C:\Program Files\COMConduit.dll	Paths and filenames are given in mixed case.
→	Parameter is passed into a function.
←	Parameter is passed out of a function.
↔	Parameter passed in and out of a function.

About This Document

Conventions Used in this Document

Programming Style in This Manual

The following guidelines are used in writing programs in this manual.

- Keywords appear with initial letters capitalized:
`' Sub, If, ChDir, Print, and True are keywords.`
`Print "Hello World"`
- An apostrophe (`'`) introduces comments:
`' These lines are comments`
`' Comments are ignored when the program`
`' is running.`
- Control-flow blocks and statements in Sub, Function, and Property procedures are indented from the enclosing code:

```
Sub InsertWORD(Record as Variant, Value as Integer)
  Dim Utility As New PDUtility
  Dim NextOffset As Long

  ' Extract the value
  NextOffset = Utility.ByteArrayToWORD(Record, 0, False, Value)
End Sub
```

- Lines too long to fit on one line (except comments) may be continued on the next line using a line-continuation character, which is a single leading space followed by an underscore (`_`) and the following line is indented as shown in the example below:

```
Sub Form_MouseDown (Button As Integer, _
  Shift As Integer, X As Single, Y As _
  Single)
```

Additional Resources

- Documentation

PalmSource, Inc. publishes its latest versions of this and other documents for Palm OS developers at

<http://www.palmos.com/dev/support/docs/>

- Training

PalmSource and its partners host training classes for Palm OS developers. For topics and schedules, check

<http://www.palmos.com/dev/training>

- Knowledge Base

The Knowledge Base is a fast, web-based database of technical information. Search for frequently asked questions (FAQs), sample code, white papers, and the development documentation at

<http://www.palmos.com/dev/support/kb/>

- CDK Feedback

Use this email address to provide feedback on the CDK: features you would like to see, bug reports, errors in documentation, and requests for Knowledge Base articles.

cdk-feedback@palmsource.com

About This Document

Additional Resources

Introduction

The COM Sync Suite is part of the Palm OS® Conduit Development Kit for Windows from PalmSource, Inc. This suite allows you to directly access information on Palm Powered™ handhelds from a desktop computer using any COM-enabled programming environment and language such as Visual Basic (VB), Visual C/C++, Borland C++ Builder, Borland Delphi, and Java.

NOTE: While the COM Sync Suite can be used in any programming language that supports COM, this document is written with Visual Basic developers in mind.

The following chapters describe the COM Sync interface, objects, methods, properties, constants, and error codes, each in alphabetical order. The sections of this chapter show the following sample descriptions:

- [Sample Object Description](#)
- [Sample Method Description](#)
- [Sample Property Description](#)

For more information about the COM Sync Suite, see the [COM Sync Suite Companion](#).

Sample Object Description

Purpose	What the object represents in the COM Sync object model. In online versions of this document, use the object description as your primary way of navigating this document for information about this object. All the methods and properties are hyperlinked to their complete descriptions in those chapters.
Methods	<p>A list and brief descriptions of all the methods available in this object. If no methods are defined, this section reads “None.”</p> <p><i>SampleMethod</i></p> <p>A brief description of each method.</p>
Properties	<p>A list and brief descriptions of all the properties defined in this object, including whether the property is read-only (R), or read/write (R/W). If no properties are defined, this section reads “None.”</p> <p><i>SampleProperty</i></p> <p>A brief description of each property.</p>
Comments	Details on using this object, its capabilities and limitations.
Example	An example of how to create and use this object in Visual Basic.
See Also	References to related objects, methods, and properties.

Sample Method Description

Purpose	What this method does.
Applies to	Objects that this method is available in.
Prototype	A Visual Basic prototype of this method as seen in the Object Browser.
Parameters	<p>Description of each parameter shown in the prototype.</p> <p>← <i>ParamOut</i> Description of a parameter that is passed back by this method</p> <p>→ <i>ParamIn</i> Description of a parameter that the caller passes into this method.</p>
Returns	Description of what this method returns. If does not return anything, this section reads "None."
Errors	<p>Descriptions of error codes that this method can cause.</p> <p><i>eErrorCode</i> What caused this error.</p>
Comments	Details on using this method, its capabilities and limitations.
Example	An example using this method in Visual Basic.
See Also	References to related methods or properties.

Sample Property Description

Purpose	What type of value this property holds.
Applies to	Objects that this property is available in.
Accessibility	Indicates whether this property is read-only or read/write.
Prototype	A Visual Basic prototype of this property as seen in the Object Browser.
Parameters	<p>Description of each parameter shown in the prototype.</p> <p>← <i>ParamOut</i> Description of a parameter that is passed back when this property is read.</p> <p>→ <i>ParamIn</i> Description of a parameter that is passed in when this property is written.</p>
Comments	Details on using this property, if any.
Example	An example using this property in Visual Basic.
See Also	References to related methods or properties.

IPDClientNotify Interface

This chapter describes the COM Sync Suite's [IPDClientNotify](#) interface.

IPDClientNotify

Purpose Notification interface implemented by a COM-based conduit client. Clients wishing to be integrated into the HotSync® process must implement this interface. You must expose an object with this interface through the standard COM registration techniques. The interface provides hooks into the HotSync process, configuration, and execution. This interface is to be implemented by only ActiveX clients for the methods below.

Methods [BeginProcess\(\)](#)

Sets up connection to begin the synchronization process.

[CfgConduit\(\)](#)

Informs a conduit when the user selects it from HotSync Manager's **Custom** dialog box. Called only by HotSync Manager versions 3.0 and later (earlier versions call [ConfigureConduit\(\)](#) instead).

[ConfigureConduit\(\)](#)

Informs a conduit when the user selects it from HotSync Manager's **Custom** dialog box. HotSync Manager versions earlier than 3.0 call only this method, whereas versions 3.0 and later call the [CfgConduit\(\)](#) method first and then call `ConfigureConduit` only if the call to `CfgConduit` is not successful.

[GetConduitInfo\(\)](#)

Returns information about the conduit (including name and version) when requested by HotSync Manager.

Properties None.

IPDClientNotify Interface

IPDClientNotify

Comments IPDClientNotify is exported as a part of COM Sync's COMDirect type library and it is mandatory for ActiveX clients to implement this interface. The COM Sync module calls these methods to communicate with the conduit.

Objects

This chapter describes the COM Sync objects in alphabetical order. For an overview of the COM Sync object model, see “[COM Sync Object Model](#)” on page 14 in the *COM Sync Suite Companion*.

IMPORTANT: Visual Basic .NET shows all interfaces and objects in the PDStandard and PDDirect libraries. *Do not use the interfaces in these libraries; use only the objects.* For example, the Object Browser lists both the `IPDDatabaseQuery` interface and the `PDDatabaseQuery` object, but you must use only the `PDDatabaseQuery` object in your code.

DmCategories

Purpose	This utility object supports access to category information in extended databases.
Methods	<p>Refresh() Reinitializes this object from its source, discarding any changes in the cache.</p> <p>ResetDirtyFlags() Resets all the category Dirty flags to <code>False</code>.</p> <p>Save() Writes the category information into the application info block of this database and writes the application info block to the handheld.</p>
Properties	<p>CategoryId (R/W) Category ID specified by category index.</p> <p>DbName (R) Name of this object's associated database on the handheld.</p> <p>Dirty (R/W) Category dirty flag specified by category index.</p> <p>LastId (R/W) Category ID of the last new category.</p> <p>Name (R/W) Category name specified by category index.</p>
Comments	<p>Uses the first 275 bytes of the application info block and converts them to a categories structure. Provides methods and properties to manage the categories structure. When saved, merges them back into the application info block.</p> <p>Each record in an extended database can have a category index. The definition of all categories in an extended database is stored within the database's application info block.</p> <p>The <code>DmCategories</code> object provides a wrapper for this standard categories structure. Each category entry in the standard category structure contains three elements: Name, CategoryId, and Dirty flag. The <code>DmCategories</code> object caches the category information, and updates the extended database only when the Save() method</p>

is executed. For C++, the following programming structure describes the category structure.

```
typedef struct tagCategories {  
    WORD renamedCategories;  
    char categoryLabels [16] [16];  
    BYTE categoryUniqIDs[16];  
    BYTE lastUniqID;  
} Categories;
```

See Also [DmRecordAdapter](#) object.

Objects

DmDatabaseInfo

DmDatabaseInfo

Purpose	Represents information about an extended database on the handheld.
Method	Refresh() Reinitializes this object from its source, discarding any changes in the cache.
Properties	AppInfoSize (R) Application info block size of this database. BackupDate (R) Date that this database was last backed up. CardNum (R) The number of the memory card on which the database is stored. CreateDate (R) Creation date of this database. Creator (R) The creator ID associated with the current conduit or database. DataBytes (R) Number of bytes of storage used by this database for data only, excluding overhead. DbFlags (R) Database flags that are set at creation time. DbName (R) Name of this object's associated database on the handheld. DbType (R) The database type . ExcludeFromSync (R) Determines whether this database is excluded from synchronization. IsRam (R) Determines whether a database is stored in RAM or ROM.

[MaxRecordSize](#)

(R) Size of the largest record in this database.

[ModCount](#)

(R) Database modification count.

[ModDate](#)

(R) Last modification date.

[RecordCount](#)

(R) Number of records in this database.

[SortInfoSize](#)

(R) Size of database SortInfo block in bytes.

[TotalBytes](#)

(R) Total number of bytes of storage used by this database, including overhead.

[Version](#)

(R) An application-specific version number of this database.

CommentsS The database properties represent the standard header information plus extended information calculated by the handheld. Be aware that `DataBytes`, `MaxRecordSize`, and `TotalBytes` may take some time to acquire.

See Also [`ReadDatabaseInfoByNameCreator\(\)`](#) method.
[`DmDatabaseInfo`](#) property.

DmDatabaseQuery

Purpose	Represents the collection of extended database s on the handheld.
Methods	AddLogEntry() Adds a text string to the HotSync log on either the desktop or the handheld. CreateRecordDatabase() Creates a new extended record database on the handheld. OpenRecordDatabase() Opens an extended record database on the handheld. ReadDatabaseInfoByNameCreator() Returns a DmDatabaseInfo object for an extended database specified by name and creator ID. ReadDatabaseNameList() Returns a list of non-schema database names that are either in RAM or ROM on the handheld. RemoveDatabase() Deletes an extended database on the handheld.
Properties	MaxAllowedRecordSize (R) Size in bytes of the largest record allowed in an extended database on the handheld.
Comments	This is the first object that you need to create for accessing <i>extended</i> databases on the handheld. You can open/create as many such databases as you need. Performance degrades, however, if you open more than one extended database at a time.
See Also	DmDatabaseInfo , DmRecordAdapter objects.

DmRecordAdapter

- Purpose** Represents an open, [extended database](#). Its methods can iterate through records in the database serially or access them randomly.
- Methods**
- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
 - [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
 - [ReadAppInfoBlock\(\)](#)
Reads this database's application info block.
 - [ReadById\(\)](#)
Reads a record using its unique ID.
 - [ReadByIndex\(\)](#)
Reads a record using its index.
 - [ReadNext\(\)](#)
Reads the next record.
 - [ReadNextInCategory\(\)](#)
Reads the next record in a category.
 - [ReadNextModified\(\)](#)
Reads the next modified record.
 - [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
 - [ReadSortInfoBlock\(\)](#)
Reads a record database's sort info block.
 - [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
 - [Remove\(\)](#)
Deletes the specified record from an open extended record database on the handheld.
 - [RemoveSet\(\)](#)
Deletes a set of records in an extended database.
 - [ResetAllModifiedFlags\(\)](#)
Resets the modified (dirty) flag of all records in the open extended record database on the handheld.

Objects

DmRecordAdapter

[Write\(\)](#)

Writes a record in an extended database.

[WriteAppInfoBlock\(\)](#)

Writes an application info block to an open extended database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open extended database on the handheld.

Properties

[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[DmCategories](#)

(R) Returns a [DmCategories](#) object representing the categories in this extended database.

[DmDatabaseInfo](#)

(R) Returns a [DmDatabaseInfo](#) object representing information about this extended database.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[RecordCount](#)

(R) Number of records in this database.

Comments From a [DmDatabaseQuery](#) object, you can create a DmRecordAdapter object, which represents the extended database that you opened or created.

Reading extended database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named ReadNextXXX, and require you to set the [IterationIndex](#) before using them. The iterator methods are:

- [ReadNext\(\)](#)
- [ReadNextInCategory\(\)](#)
- [ReadNextModified\(\)](#)
- [ReadNextModifiedInCategory\(\)](#)

Use the [EOF](#) property to determine when there are no more records in the iteration.

Direct methods to access records randomly are named ReadByXXX(), namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).

To close the database, in Visual Basic, set the object reference to the value Nothing. In C++, the last Release of a DmRecordAdapter object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

IMPORTANT: This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had DmRecordAdapter1 to open database "A," you cannot use DmRecordAdapter1 again to open database "B." You must define a new DmRecordAdapter object to open database "B."

See Also [DmDatabaseQuery](#), [DmCategories](#), [DmDatabaseInfo](#), [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#) objects. [CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods. [ERemoveSetType](#) constants.

Objects

PDAddressDbHHRecord

PDAddressDbHHRecord

Purpose	Represents an Address Book record. Its properties represent the values of the standard Address Book fields.
Methods	<code>ReadFromByteStream</code> Private. <code>WriteToByteStream</code> Private.
Properties	<u>Address</u> (R/W) Content of the “Address” field in this record. <u>CategoryId</u> (R/W) Category ID specified by category index. <u>City</u> (R/W) Content of the “City” field in this record. <u>Company</u> (R/W) Content of the “Company” field in this record. <u>Country</u> (R/W) Content of the “Country” field in this record. <u>Custom1</u> (R/W) Content of the “Custom 1” field in this record. <u>Custom2</u> (R/W) Content of the “Custom 2” field in this record. <u>Custom3</u> (R/W) Content of the “Custom 3” field in this record. <u>Custom4</u> (R/W) Content of the “Custom 4” field in this record. <u>DisplayPhone</u> (R/W) Contact information to display in the Address Book list view. <u>FirstName</u> (R/W) Content of the “First name” field in this record. <u>Index</u> (R/W) Position of this record in its PIM database.

[IsArchived](#)

(R/W) Indicates whether this record is marked to be archived.

[IsDeleted](#)

(R/W) Indicates whether this record is marked to be deleted.

[IsDirty](#)

(R/W) Indicates whether this record has been modified since the last synchronization.

[IsPrivate](#)

(R/W) Indicates whether this record is marked as private.

[LastName](#)

(R/W) Content of the "Last name" field in this record.

[Notes](#)

(R/W) Content of the note in this record.

[Phone1](#)

(R/W) Content of the Phone 1 field in this record.

[Phone2](#)

(R/W) Content of the Phone 2 field in this record.

[Phone3](#)

(R/W) Content of the Phone 3 field in this record.

[Phone4](#)

(R/W) Content of the Phone 4 field in this record.

[Phone5](#)

(R/W) Content of the Phone 5 field in this record.

[PhoneLabel1](#)

(R/W) Name of the Phone 1 field in this record.

[PhoneLabel2](#)

(R/W) Name of the Phone 2 field in this record.

[PhoneLabel3](#)

(R/W) Name of the Phone 3 field in this record.

[PhoneLabel4](#)

(R/W) Name of the Phone 4 field in this record.

[PhoneLabel5](#)

(R/W) Name of the Phone 5 field in this record.

Objects

PDAddressDbHHRecord

[State](#)

(R/W) Content of the “State” field in this record.

[Title](#)

(R/W) Content of the “Title” field in this record.

[UniqueId](#)

(R/W) The record ID of this record.

[ZipCode](#)

(R/W) Content of the “Zip Code” field in this record.

Comments For a [PDAddressDbHHRecordAdapter](#) object, you can create a `PDAddressDbHHRecord` object, which represents the Address Book record that you read or write. Each of this object’s properties is one of the fields in an Address Book record.

Use this object with Address Book versions earlier than 6.0. It does not work with the the application provided in Palm OS® Cobalt.

Example See the example under “[PDAddressDbHHRecordAdapter](#)” on page 19.

See Also [PDAddressDbHHRecordAdapter](#) object.

PDAddressDbHHRecordAdapter

Purpose Represents an open Address Book record database. Its methods can iterate through records in a database serially or access them randomly.

Methods

- [AddLogEntry\(\)](#)
Adds a text string to the HotSync® log on either the desktop or the handheld.
- [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
- [ReadAppInfoBlock\(\)](#)
Reads a record database's AppInfo block.
- [ReadById\(\)](#)
Reads a record using its unique ID.
- [ReadByIndex\(\)](#)
Reads a record using its index.
- [ReadNext\(\)](#)
Reads the next record.
- [ReadNextInCategory\(\)](#)
Reads the next record in a category.
- [ReadNextModified\(\)](#)
Reads the next modified record.
- [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
- [ReadSortInfoBlock\(\)](#)
Reads a record database's SortInfo block.
- [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
- [Remove\(\)](#)
Deletes the specified record from an open record database on the handheld.
- [RemoveSet\(\)](#)
Deletes a set of database records.

Objects

PDAddressDbHHRecordAdapter

[ResetAllModifiedFlags\(\)](#)

Resets the modified (dirty) flag of all records in the opened record database on the handheld.

[Write\(\)](#)

Writes a database record.

[WriteAppInfoBlock\(\)](#)

Writes an AppInfo block to an open record database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open database on the handheld.

Properties

[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[PDCategories](#)

(R) Returns a [PDCategories](#) object representing the categories in this database.

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Comments From a [PDDatabaseQuery](#) object, you can create a PDAddressDbHHRecordAdapter object, which represents the Address Book record database that you opened or created. With this object, you can access Address Book records represented by [PDAddressDbHHRecord](#) objects.

Use this object with Address Book versions earlier than 6.0. It does not work with the application provided in Palm OS Cobalt.

When you *open* an Address Book database with this object, you must specify both the database's name and the full adapter name of this object:

```
OpenRecordDatabase("AddressDB", _
    "PDStandard.PDAddressDbHHRecordAdapter", _
    eRead Or eWrite Or eShowSecret)
```

When you *create* an Address Book database with this object, you must additionally specify the Address Book database's creator ID ('addr') and type ('DATA'):

```
CreateRecordDatabase("AddressDB", _
    "PDStandard.PDAddressDbHHRecordAdapter", _
    "addr", "DATA", eRead Or eWrite, eBackupDb, _
    1, 0)
```

Reading database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named ReadNextXXX, and require you to set the [IterationIndex](#) before using them. The iterator methods are:

- [ReadNext\(\)](#)
- [ReadNextInCategory\(\)](#)
- [ReadNextModified\(\)](#)
- [ReadNextModifiedInCategory\(\)](#)

Use the [EOF](#) property to determine when there are no more records in the iteration.

Direct methods to access records randomly are named ReadByXXX(), namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).

To close the database, in Visual Basic, set the object reference to the value Nothing. In C++, the last Release of a PRecordAdapter

Objects

PDAddressDbHHRecordAdapter

object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

IMPORTANT: This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had `PDAddressDbHHRecordAdapter1` to open database "A," you cannot use `PDAddressDbHHRecordAdapter1` again to open database "B." You must define a new `PDAddressDbHHRecordAdapter` object to open database "B."

Example

```
Dim pDbQuery As New PDDatabaseQuery
' Declare the PDAddressDbHHRecordAdapter object.
Dim pAddr As PDAddressDbHHRecordAdapter

' Open the AddressDb database.
Set pAddr = pDbQuery.OpenRecordDatabase("AddressDB", _
    "PDStandard.PDAddressDbHHRecordAdapter", eRead Or eWrite _
    Or eShowSecret)

' Declare the record header and data.
Dim nIndex As Long
Dim vUniqueId As Variant
Dim nCategory As Long
Dim eAttributes As ERecordAttributes
Dim vData As Variant
' Declare the count of records containing the string
Dim nCount As Long
Dim nTest As Variant

' Declare the PDAddressDbHHRecord object, set its properties,
' and write it.
Dim pAddressRecord As New PDAddressDbHHRecord
pAddressRecord.City = "Sunnyvale"
pAddressRecord.Address = "1240 Crossman Ave."
pAddressRecord.Company = "PalmSource, Inc."
pAddressRecord.Country = "USA"
pAddressRecord.Custom1 = "custom1"
pAddressRecord.Custom2 = "custom2"
pAddressRecord.Custom3 = "custom3"
pAddressRecord.Custom4 = "custom4"
pAddressRecord.DisplayPhone = 1
pAddressRecord.FirstName = "Albert"
pAddressRecord.LastName = "Einstein"
```

```
pAddressRecord.Notes = "E = mc^2"
pAddressRecord.State = "CA"
pAddressRecord.Title = "Theoretical Physicist"
pAddressRecord.Phone1 = "ae@palmsource.com"
pAddressRecord.Phone2 = "408-123-4567"
pAddressRecord.Phone3 = "408-123-8901"
pAddressRecord.Phone4 = "408-123-2345"
pAddressRecord.Phone5 = "408-123-6789"
pAddressRecord.CategoryId = 2
pAddressRecord.PhoneLabel1 = PHONE_LABEL_EMAIL
pAddressRecord.PhoneLabel2 = PHONE_LABEL_MOBILE
pAddressRecord.PhoneLabel3 = PHONE_LABEL_FAX
pAddressRecord.PhoneLabel4 = PHONE_LABEL_MAIN
pAddressRecord.PhoneLabel5 = PHONE_LABEL_PAGER

vUniqueId = pAddr.Write(pAddressRecord)
```

See Also [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#), [PDAddressDbHHRecord](#) objects.
[CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods.
[ERemoveSetType](#) constants.

PDCategories

Purpose	This utility object supports access to category information in a classic database.
Methods	<p>Refresh() Reinitializes this object from its source, discarding any changes in the cache.</p> <p>ResetDirtyFlags() Resets all the category Dirty flags to <code>False</code>.</p> <p>Save() Writes the category information into the AppInfo block of this database and writes the AppInfo block to the handheld.</p>
Properties	<p>CategoryId (R/W) Category ID specified by category index.</p> <p>DbName (R) Name of this object's associated database on the handheld.</p> <p>Dirty (R/W) Category dirty flag specified by category index.</p> <p>LastId (R/W) Category ID of the last new category.</p> <p>Name (R/W) Category name specified by category index.</p>
Comments	<p>Uses the first 275 bytes of the application info block and converts them to a categories structure. Provides methods and properties to manage the categories structure. When saved, merges them back into the application info block.</p> <p>Each record in a handheld database can have a category index. The definition of all categories in a handheld database is stored within the database's application info block.</p> <p>The PDCategories object provides a wrapper for this standard categories structure. Each category entry in the standard category structure contains three elements: Name, CategoryId, and Dirty flag. The PDCategories object caches the category information, and updates the handheld database only when the Save() method</p>

is executed. For C++, the following programming structure describes the category structure.

```
typedef struct tagCategories {  
    WORD renamedCategories;  
    char categoryLabels [16] [16];  
    BYTE categoryUniqIDs[16];  
    BYTE lastUniqID;  
} Categories;
```

See Also [PDRecordAdapter](#) object.

PDCondMgr

- Purpose** A collection of utility methods that register conduits and notifiers with HotSync Manager for the current Windows user. These methods also manage information about these conduits and notifiers.
- Methods**
- [CreatorIDToString\(\)](#)
Converts a Long conduit creator ID into a String.
 - [GetBackupConduit\(\)](#)
Retrieves the name of HotSync Manager's [backup conduit](#) for the current Windows user.
 - [GetConduitCount\(\)](#)
Returns the number of conduits registered with HotSync Manager for the current Windows user.
 - [GetConduitInfo\(\)](#)
Returns complete information about a user-registered conduit in a [PDConduitInfo](#) object.
 - [GetConduitList\(\)](#)
Returns a list of creator IDs of all the user-registered conduits.
 - [GetDWORDData\(\)](#)
Retrieves a DWORD configuration entry value for the specified user-registered conduit.
 - [GetNotifierList\(\)](#)
Returns a list of all the user-registered notifier filenames.
 - [GetStringData\(\)](#)
Retrieves a String configuration entry value for the specified user-registered conduit.
 - [ModifyNotifier\(\)](#)
Modifies the path or filename of a notifier already registered with HotSync Manager for the current Windows user.
 - [RegisterConduit\(\)](#)
Registers a conduit for the current Windows user based on the information provided in a [PDConduitInfo](#) object.
 - [RegisterNotifier\(\)](#)
Registers a notifier with HotSync Manager for the current Windows user.

[SetBackupConduit\(\)](#)

Sets the filename of the HotSync Manager backup conduit for the current Windows user.

[SetDWORDData\(\)](#)

Sets a DWORD configuration entry value for the specified user-registered conduit.

[SetStringData\(\)](#)

Sets a String configuration entry value for the specified user-registered conduit.

[StringToCreatorID\(\)](#)

Converts a String into a DWORD conduit creator ID.

[UnregisterConduit\(\)](#)

Unregisters a user-registered conduit with HotSync Manager.

[UnregisterNotifier\(\)](#)

Unregisters a user-registered notifier with HotSync Manager.

Properties None.

Comments The member methods of this object access the underlying Conduit Manager C API.

This object manages conduits and notifiers for the current Windows user. To manage system-registered conduits, use [PDSystemCondMgr](#).

See Also [PDConduitInfo](#) , [PDSystemCondMgr](#) object.
“[Registering Conduits and Notifiers with HotSync Manager](#)” on page 73 in *Introduction to Conduit Development*.

Objects

PDConduitInfo

PDConduitInfo

Purpose	Represents all the conduit information to register a conduit with HotSync Manager.
Methods	None. Use methods defined in PDCondMgr and PDSystemCondMgr to access PDConduitInfo properties.
Properties	<div><div>COMClassID (R/W) ProgID of this COM-based conduit.</div><div>CreatorID (R/W) Creator ID of the application on the handheld that this conduit is responsible for synchronizing.</div><div>DeskTopDataDirectory (R/W) Name of this conduit's data directory.</div><div>DeskTopDataFile (R/W) Name of the desktop data file that your conduit synchronizes with the handheld database.</div><div>DisplayName (R/W) User-visible name of this conduit.</div><div>FileName (R/W) Filename of this conduit DLL.</div><div>HandHeldDB (R/W) Name of the database on the handheld that this conduit accesses.</div><div>JavaClassName (R/W) Full name of the Java-based conduit class (including package).</div><div>JavaClassPath (R/W) Directory that contains all the classes used by this Java-based conduit.</div><div>Priority (R/W) Execution priority for this conduit.</div></div>

Comments The member properties of this object correspond to the conduit configuration entries created on the desktop when you register a conduit. They map closely to the entries you create when you use the Conduit Configuration (CondCfg) utility to register your conduit on your development and test machine (see [Chapter 3](#), “[Conduit Configuration Utility](#),” on page 11 in the *Conduit Development Utilities Guide*).

See Also [PDCondMgr](#), [PDSystemCondMgr](#) objects.

PDDatabaseInfo

Purpose Represents information about a [non-schema database](#).

Method [Refresh\(\)](#)
Reinitializes this object from its source, discarding any changes in the cache.

Properties [AppInfoSize](#)
(R) AppInfo block size of this database.

[BackupDate](#)
(R) Date that this database was last backed up.

[CardNum](#)
(R) Card number of the memory card on the handheld on which databases are stored.

[CreateDate](#)
(R) Creation date of this database.

[Creator](#)
(R) Creator ID of this database on the handheld.

[DataBytes](#)
(R) Number of bytes of storage used by this database for data only, excluding overhead.

[DbFlags](#)
(R) Database flags that are set at creation time.

[DbIndex](#)
(R) Database index in the total set of databases.

[DbName](#)
(R) Name of this object's associated database on the handheld.

[DbType](#)
(R) Database type.

[ExcludeFromSync](#)
(R) Determines whether this database is excluded from synchronization.

[IsRam](#)
(R) Determines whether a database is stored in RAM or ROM.

[MaxRecordSize](#)

(R) Size of the largest record in this database.

[ModCount](#)

(R) Database modification count.

[ModDate](#)

(R) Last modification date.

[RecordCount](#)

(R) Number of records in this database.

[SortInfoSize](#)

(R) Size of database SortInfo block in bytes.

[TotalBytes](#)

(R) Total number of bytes of storage used by this database, including overhead.

[Version](#)

(R) An application-specific version number of this database.

CommentsS

The database properties represent the standard header information plus extra information calculated by the handheld. Be aware that `DataBytes`, `MaxRecordSize`, and `TotalBytes` may take some time to acquire.

IMPORTANT: Use only the `PDDatabaseInfo` object available in the `PDStandard` library. Do not use the `PDDatabaseInfo` object available in the `PDDirect` library.

See Also

[`ReadDbInfoByName\(\)`](#), [`ReadDbInfoByCreatorType\(\)`](#) methods.
[`PDDatabaseInfo`](#), [`DmDatabaseInfo`](#) property.

PDDatabaseQuery

Purpose	Represents the collection of classic databases on the handheld.
Methods	<div><div>AddLogEntry() Adds a text string to the HotSync® log on either the desktop or the handheld.</div><div>CreateRecordDatabase() Creates a new record database on the handheld.</div><div>CreateResourceDatabase() Creates a new resource database on the handheld.</div><div>OpenRecordDatabase() Opens a record database on the handheld.</div><div>OpenResourceDatabase() Opens a resource database on the handheld.</div><div>ReadDbInfoByName() Returns a PDDatabaseInfo object for a named database.</div><div>ReadDbInfoByCreatorType() Returns a PDDatabaseInfo object for a creator/type pair.</div><div>ReadDbNameList() Returns a list of classic database names that are either in RAM or ROM on the handheld.</div><div>RemoveDatabase() Deletes a database on the handheld.</div></div>
Properties	<div><div>MaxAllowedRecordSize (R) Size of the largest record allowed on the handheld in bytes.</div><div>RamDbCount (R) Number of databases in primary storage RAM on the handheld.</div><div>RomDbCount (R) Number of databases in ROM on the handheld.</div></div>

Comments This is the first object that you need to create for accessing classic databases on the handheld. You can open/create as many classic databases as you need. But because the underlying Sync Manager API permits only one classic database to be open at a time, performance degrades if you intermix record access from more than one classic database.

To work with extended databases, use [DmDatabaseQuery](#). To work with schema databases, use [PSDDatabaseQuery](#).

See Also [PDDatabaseInfo](#), [PDRecordAdapter](#),
[PDAddressDbHHRecordAdapter](#),
[PDDateBookDbHHRecordAdapter](#),
[PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#),
[PDResourceAdapter](#) objects.

Objects

PDDateBookDbHHRecord

PDDateBookDbHHRecord

Purpose	Represents a classic Date Book record that does not support exceptions to repeating events. Use the PDDateBookDbHHRecord2 object instead of this object.
Methods	<div>ReadFromByteStream Private.</div> <div>WriteToByteStream Private.</div>
Properties	<div>AlarmAdvanceTime (R/W) How long before an event to trigger the alarm.</div> <div>AlarmAdvanceUnits (R/W) Time units that the AlarmAdvanceTime property is specified in.</div> <div>DaysMaskForWeeklyRepeat (R/W) Mask indicating which days of the week on which a weekly repeating event occurs.</div> <div>Description (R/W) Text describing an event.</div> <div>EndTime (R/W) Time and date on which an event ends.</div> <div>Index (R/W) Position of this record in the Date Book database.</div> <div>IsAlarmSet (R/W) Indicates whether the alarm is set for this event.</div> <div>IsArchived (R/W) Indicates whether this record is marked to be archived.</div> <div>IsDeleted (R/W) Indicates whether this record is marked to be deleted.</div> <div>IsDirty (R/W) Indicates whether this record is has been modified since the last synchronization.</div> <div>IsEventNotTimed (R/W) Indicates whether a time is specified for this event.</div>

[IsEventRepeatable](#)

(R/W) Indicates whether this event repeats in.

[IsPrivate](#)

(R/W) Indicates whether this record is marked as private.

[Notes](#)

(R/W) Content of the note in this record.

[RepeatDay](#)

(R/W) Day on which to repeat this event each month.

[RepeatEndDate](#)

(R/W) Date on which to end this repeating event.

[RepeatFrequency](#)

(R/W) How many cycles between instances of this repeating event.

[RepeatType](#)

(R/W) Cycle on which this event repeats in.

[StartTime](#)

(R/W) Time and date on which an event starts.

[UniqueId](#)

(R/W) The record ID of this record.

[WeekIndexForMonthlyRepeatByDay](#)

(R/W) Week on which to repeat this event if it repeats monthly by day.

Comments

For a [PDDateBookDbHHRRecordAdapter](#) object, you can create a [PDDateBookDbHHRRecord](#) object, which represents the Date Book record that you read or write. Each of this object's properties is one of the fields in a Date Book record.

Use this object with Date Book versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.

NOTE: To handle exception dates in Date Book records, you must use [PDDateBookDbHHRRecordAdapter2](#) and [PDDateBookDbHHRRecord2](#). The [PDDateBookDbHHRRecordAdapter](#) and [PDDateBookDbHHRRecord](#) objects do not support exceptions dates in repeating events.

Objects

PDDateBookDbHHRecord

Example See the example under “[PDDateBookDbHHRecordAdapter](#)” on page 40.

See Also [PDDateBookDbHHRecord2](#), [PDDateBookDbHHRecordAdapter](#) objects.

PDDateBookDbHHRecord2

- Purpose** Represents a classic Date Book record that supports exceptions to repeating events. Use this object rather than [PDDateBookDbHHRecord](#).
- Methods**
- [GetExceptionDates\(\)](#)
Retrieves a list of dates that are exceptions to a Date Book repeating event.
ReadFromByteStream
Private.
 - [SetExceptionDates\(\)](#)
Sets the exception dates for a repeating event in Date Book.
WriteToByteStream
Private.
- Properties**
- [AlarmAdvanceTime](#)
(R/W) How long before an event to trigger the alarm.
 - [AlarmAdvanceUnits](#)
(R/W) Time units that the [AlarmAdvanceTime](#) property is specified in.
 - [DaysMaskForWeeklyRepeat](#)
(R/W) Mask indicating which days of the week on which a weekly repeating event occurs.
 - [Description](#)
(R/W) Text describing an event.
 - [EndTime](#)
(R/W) Time and date on which an event ends.
 - [Index](#)
(R/W) Position of this record in the Date Book database.
 - [IsAlarmSet](#)
(R/W) Indicates whether the alarm is set for this event.
 - [IsArchived](#)
(R/W) Indicates whether this record is marked to be archived.
 - [IsDeleted](#)
(R/W) Indicates whether this record is marked to be deleted.

Objects

PDDateBookDbHHRecord2

[IsDirty](#)

(R/W) Indicates whether this record is has been modified since the last synchronization.

[IsEventNotTimed](#)

(R/W) Indicates whether a time is specified for this event.

[IsEventRepeatable](#)

(R/W) Indicates whether this event repeats in.

[IsPrivate](#)

(R/W) Indicates whether this record is marked as private.

[Notes](#)

(R/W) Content of the note in this record.

[RepeatDay](#)

(R/W) Day on which to repeat this event each month.

[RepeatEndDate](#)

(R/W) Date on which to end this repeating event.

[RepeatFrequency](#)

(R/W) How many cycles between instances of this repeating event.

[RepeatType](#)

(R/W) Cycle on which this event repeats in.

[StartTime](#)

(R/W) Time and date on which an event starts.

[UniqueId](#)

(R/W) The record ID of this record.

[WeekIndexForMonthlyRepeatByDay](#)

(R/W) Week on which to repeat this event if it repeats monthly by day.

Comments

For a [PDDateBookDbHHRecordAdapter2](#) object, you can create a *PDDateBookDbHHRecord2* object, which represents the Date Book record that you read or write. Each of this object's properties is one of the fields in a Date Book record.

Use this object with Date Book versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.

NOTE: To handle exception dates in Date Book records, you must use [PDDateBookDbHHRecordAdapter2](#) and [PDDateBookDbHHRecord2](#). The [PDDateBookDbHHRecordAdapter](#) and [PDDateBookDbHHRecord](#) objects do not support exception dates in repeating events.

Example See the example under “[PDDateBookDbHHRecordAdapter2](#)” on page 45.

See Also [PDDateBookDbHHRecordAdapter2](#) object.

Objects

PDDateBookDbHHRecordAdapter

PDDateBookDbHHRecordAdapter

- Purpose** Represents an open Date Book record database. Its methods can iterate through records in a database serially or access them randomly.
- Methods**
- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
 - [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
 - [ReadAppInfoBlock\(\)](#)
Reads a record database's AppInfo block.
 - [ReadById\(\)](#)
Reads a record using its unique ID.
 - [ReadByIndex\(\)](#)
Reads a record using its index.
 - [ReadNext\(\)](#)
Reads the next record.
 - [ReadNextInCategory\(\)](#)
Reads the next record in a category.
 - [ReadNextModified\(\)](#)
Reads the next modified record.
 - [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
 - [ReadSortInfoBlock\(\)](#)
Reads a record database's SortInfo block.
 - [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
 - [Remove\(\)](#)
Deletes the specified record from an open record database on the handheld.
 - [RemoveSet\(\)](#)
Deletes a set of database records.

[ResetAllModifiedFlags\(\)](#)

Resets the modified (dirty) flag of all records in the opened record database on the handheld.

[Write\(\)](#)

Writes a database record.

[WriteAppInfoBlock\(\)](#)

Writes an AppInfo block to an open record database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open database on the handheld.

Properties[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[PDCategories](#)

(R) Returns a [PDCategories](#) object representing the categories in this database.

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Objects

PDDateBookDbHHRecordAdapter

Comments From a [PDDatabaseQuery](#) object, you can create a `PDDateBookDbHHRecordAdapter` object, which represents the Date Book record database that you opened or created. With this object, you can access Date Book records represented by [PDDateBookDbHHRecord](#) objects.

Use this object with Date Book versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.

NOTE: To handle exception dates in Date Book records, you must use [PDDateBookDbHHRecordAdapter2](#) and [PDDateBookDbHHRecord2](#). The [PDDateBookDbHHRecordAdapter](#) and [PDDateBookDbHHRecord](#) objects do not support exceptions dates in repeating events.

When you *open* a Date Book database with this object, you must specify both the database's name and the full adapter name of this object:

```
OpenRecordDatabase("DatebookDB", _  
    "PDStandard.PDDateBookDbHHRecordAdapter", _  
    eRead Or eWrite Or eShowSecret)
```

When you *create* a Date Book database with this object, you must additionally specify the Date Book database's creator ID ('date') and type ('DATA'):

```
CreateRecordDatabase("DatebookDB", _  
    "PDStandard.PDDateBookDbHHRecordAdapter", _  
    "date", "DATA", eRead Or eWrite, eBackupDb, _  
    1, 0)
```

Reading database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named `ReadNextXXX()`, and require you to set the [IterationIndex](#) before using them. The iterator methods are:

- [ReadNext\(\)](#)
- [ReadNextInCategory\(\)](#)
- [ReadNextModified\(\)](#)

- [ReadNextModifiedInCategory\(\)](#)

Use the [EOF](#) property to determine when there are no more records in the iteration.

Direct methods to access records randomly are named ReadByXXX, namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).

To close the database, in Visual Basic, set the object reference to the value Nothing. In C++, the last Release of a PDBRecordAdapter object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

IMPORTANT: This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had PDDateBookDbHHRecordAdapterA to open database “A,” you cannot use PDDateBookDbHHRecordAdapterA again to open database “B.” You must define a new PDDateBookDbHHRecordAdapter object to open database “B.”

Example

```
' Declare the PDDatabaseQuery object.
Dim pDbQuery As New PDDatabaseQuery
Dim PDateRecord As New PDDateBookDbHHRecord
    'Declare the PDDateBookDbRecordAdapter object
    Dim pDateAdapter As PDDateBookDbHHRecordAdapter

' First check whether a HotSync operation is in progress.
Dim PHotSyncManager As New PDHotSyncUtility

If Not PHotSyncManager.IsSyncInProgress Then
    MsgBox "COM Sync Suite objects are only active during a _
        HotSync operation. Refer to the COMSyncCompanion.pdf _
        manual for more information on how to create a debug _
        environment.", vbInformation, "Information"
    Exit Sub
End If

' Open the DateBookDB database.
Set pDateAdapter = pDbQuery.OpenRecordDatabase("DatebookDB", _
    "PDStandard.PDDatebookDbHHRecordAdapter", eRead Or eWrite_
    Or eShowSecret)
```

Objects

PDDateBookDbHHRecordAdapter

```
' Fill in record data.
PDateRecord.Description = "Test Record"
PDateRecord.StartTime = "07/19/2002 9:00:00 AM"
PDateRecord.EndTime = "07/19/2002 9:15:00 AM"

' Set alarm info.: trigger reminder 10 min before the event.
PDateRecord.IsAlarmSet = True
PDateRecord.AlarmAdvanceTime = 10
PDateRecord.AlarmAdvanceUnits = PD_AAU_MINUTES

PDateRecord.Notes = "My Notes"

' Set repeat info.: repeat every month on third Friday.
PDateRecord.IsEventRepeatable = True
PDateRecord.RepeatEndDate = "07/19/2003"
PDateRecord.RepeatFrequency = 1
PDateRecord.RepeatType = EPDMonthlyByDay
PDateRecord.WeekIndexForMonthlyRepeatByDay = EPDThird
PDateRecord.RepeatDay = EPDFriday

' Write the record.
Dim uniqueid As Variant
uniqueid = pDateAdapter.Write(PDateRecord)
    MsgBox "successfully created a datebook event which _
        repeats every month on third friday from July 2002 to _
        July 2003"
```

See Also

[PDDateBookDbHHRecordAdapter2](#), [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#), [PDDateBookDbHHRecord](#) objects.
[CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods.
[ERemoveSetType](#) constants.

PDDateBookDbHHRecordAdapter2

- Purpose** Represents an open Date Book record database that supports exceptions to repeating events. Use this object rather than [PDDateBookDbHHRecordAdapter](#). This object's methods can iterate through records in a database serially or access them randomly.
- Methods**
- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
 - [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
 - [ReadAppInfoBlock\(\)](#)
Reads a record database's application info block.
 - [ReadById\(\)](#)
Reads a record using its unique ID.
 - [ReadByIndex\(\)](#)
Reads a record using its index.
 - [ReadNext\(\)](#)
Reads the next record.
 - [ReadNextInCategory\(\)](#)
Reads the next record in a category.
 - [ReadNextModified\(\)](#)
Reads the next modified record.
 - [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
 - [ReadSortInfoBlock\(\)](#)
Reads a record database's SortInfo block.
 - [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
 - [Remove\(\)](#)
Deletes the specified record from an open record database on the handheld.
 - [RemoveSet\(\)](#)
Deletes a set of database records.

Objects

PDDateBookDbHHRecordAdapter2

[ResetAllModifiedFlags\(\)](#)

Resets the modified (dirty) flag of all records in the opened record database on the handheld.

[Write\(\)](#)

Writes a database record.

[WriteAppInfoBlock\(\)](#)

Writes an AppInfo block to an open record database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open database on the handheld.

Properties

[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[PDCategories](#)

(R) Returns a [PDCategories](#) object representing the categories in this database.

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Comments From a [PDDatabaseQuery](#) object, you can create a PDDateBookDbHHRecordAdapter2 object, which represents the Date Book record database that you opened or created. With this object, you can access Date Book records represented by [PDDateBookDbHHRecord2](#) objects.

Use this object with Date Book versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.

NOTE: To handle exception dates in Date Book records, you must use [PDDateBookDbHHRecordAdapter2](#) and [PDDateBookDbHHRecord2](#). The [PDDateBookDbHHRecordAdapter](#) and [PDDateBookDbHHRecord](#) objects do not support exceptions dates in repeating events.

When you *open* a Date Book database with this object, you must specify both the database's name and the full adapter name of this object:

```
OpenRecordDatabase("DatebookDB", _  
    "PDStandard.PDDateBookDbHHRecordAdapter2", _  
    eRead Or eWrite Or eShowSecret)
```

When you *create* a Date Book database with this object, you must additionally specify the Date Book database's creator ID ('date') and type ('DATA'):

```
CreateRecordDatabase("DatebookDB", _  
    "PDStandard.PDDateBookDbHHRecordAdapter2", _  
    "date", "DATA", eRead Or eWrite, eBackupDb, _  
    1, 0)
```

Reading database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named `ReadNextXXX()`, and require you to set the [IterationIndex](#) before using them. The iterator methods are:

- [ReadNext\(\)](#)
- [ReadNextInCategory\(\)](#)
- [ReadNextModified\(\)](#)

Objects

PDDateBookDbHHRecordAdapter2

- [ReadNextModifiedInCategory\(\)](#)

Use the [EOF](#) property to determine when there are no more records in the iteration.

Direct methods to access records randomly are named `ReadByXXX()`, namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).

To close the database, in Visual Basic, set the object reference to the value `Nothing`. In C++, the last `Release` of a `PDRecordAdapter` object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

IMPORTANT: This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had `PDDateBookDbHHRecordAdapter2A` to open database "A," you cannot use `PDDateBookDbHHRecordAdapter2A` again to open database "B." You must define a new `PDDateBookDbHHRecordAdapter2` object to open database "B."

Example

```
' Declare the PDDatabaseQuery object.
Dim pDbQuery As New PDDatabaseQuery
Dim PDateRecord As New PDDateBookDbHHRecord2
    'Declare the PDDateBookDbRecordAdapter object
    Dim pDateAdapter As PDDateBookDbHHRecordAdapter2

' First check whether a HotSync operation is in progress.
Dim PHotSyncManager As New PDHotSyncUtility

If Not PHotSyncManager.IsSyncInProgress Then
    MsgBox "COM Sync Suite objects are only active during a _
        HotSync operation. Refer to the COMSyncCompanion.pdf _
        manual for more information on how to create a debug _
        environment.", vbInformation, "Information"
    Exit Sub
End If

' Open the DateBookDB database.
Set pDateAdapter = pDbQuery.OpenRecordDatabase("DatebookDB", _
    "PDStandard.PDDatebookDbHHRecordAdapter2", eRead Or _
    eWrite Or eShowSecret)
```

```
' Fill in record data.
PDateRecord.Description = "Test Record"
PDateRecord.StartTime = "07/19/2002 9:00:00 AM"
PDateRecord.EndTime = "07/19/2002 9:15:00 AM"

' Set alarm info.: trigger reminder 10 min before the event.
PDateRecord.IsAlarmSet = True
PDateRecord.AlarmAdvanceTime = 10
PDateRecord.AlarmAdvanceUnits = PD_AAU_MINUTES

PDateRecord.Notes = "My Notes"

' Set repeat info.: repeat every month on third Friday.
PDateRecord.IsEventRepeatable = True
PDateRecord.RepeatEndDate = "07/19/2003"
PDateRecord.RepeatFrequency = 1
PDateRecord.RepeatType = EPDMonthlyByDay
PDateRecord.WeekIndexForMonthlyRepeatByDay = EPDThird
PDateRecord.RepeatDay = EPDFriday

' Write the record.
Dim uniqueid As Variant
uniqueid = pDateAdapter.Write(PDateRecord)
    MsgBox "successfully created a datebook event which _
        repeats every month on third friday from July 2002 to _
        July 2003"
```

See Also [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#), [PDDateBookDbHHRecord2](#) objects.
[CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods.
[ERemoveSetType](#) constants.

Objects

PDExpansionCardInfo

PDExpansionCardInfo

Purpose	Represents expansion card information given a slot reference number.
Methods	None.
Properties	<p>CapabilityFlags Describes the capabilities of an expansion card, such as whether it has storage and whether it is read-only.</p> <p>DeviceClass Describes the name of the type of expansion card.</p> <p>DeviceUniqueId Unique identifier for an expansion card product.</p> <p>ManufacturerName Name of the manufacturer of the expansion card.</p> <p>MediaType Type of media supported by the expansion card.</p> <p>ProductName Name of the expansion card product.</p>
Comments	These read-only properties specify the characteristics of the expansion card loaded in the slot, including whether the card supports secondary storage or is strictly read-only.
See Also	PDExpansionManager object.

PDExpansionManager

Purpose Represents the Expansion Manager on the desktop. Its methods can detect the presence of and get information about expansion slots on a handheld and the cards in them. It can get slot reference numbers, which you subsequently pass to its methods to gather card information.

Methods [GetCardInfo\(\)](#)
Retrieves information about an expansion card in a given slot.

[GetSlotInfo\(\)](#)
Retrieves information about a specified expansion slot, including the reference number of a mounted volume.

[GetSlotReferenceNumbers\(\)](#)
Retrieves a list of slot reference numbers on a handheld.

[IsExpansionSlotPresent\(\)](#)
Verifies the presence of an expansion slot on the handheld.

Properties None.

Comments The Expansion Manager on the handheld is an optional system extension that adds support for hardware expansion cards on Palm Powered™ handhelds. The handheld Expansion Manager's primary function is to manage slots on the handheld and the drivers associated with those slots. Individual slot drivers on the handheld—which are provided by handheld manufacturers—provide support for various expansion card types including Secure Digital (SD), MultiMediaCard (MMC), CompactFlash, Sony's Memory Stick, and others.

The PDExpansionManager object provides conduits an interface to the Expansion Manager on the handheld during a HotSync operation. Through this interface, conduits can determine whether an expansion card is present in a slot and get information about that card.

See Also [PDExpansionCardInfo](#) object.

Objects

PDHotsyncInfo

PDHotsyncInfo

Purpose	Represents information about the current HotSync session.
Methods	None.
Properties	<div><div>CardNum (R) The number of the memory card on which the database is stored.</div><div>ConnectionType (R) An EConnectionType value that indicates the type transfer medium of the current HotSync operation.</div><div>Creator (R) The creator ID associated with the current conduit.</div><div>DbType (R) The database type.</div><div>FirstSync (R) An EFirstSync value that indicates whether the current HotSync operation is the first for the handheld, the first with the current desktop, or the first for neither.</div><div>LocalName (R) The desktop file that the conduit synchronizes with. This value is set in the conduit's File configuration entry.</div><div>NameList (R) List of the handheld databases that have the same creator ID as the current conduit. The number of items in the array is specified by the RemoteNameCount property.</div><div>PathName (R) The conduit's directory name. This value is set in the conduit's Directory configuration entry.</div><div>RegistryKey (R) The primary Windows registry key for the current conduit. Do not use this property; use the PDConduitInfo to access conduit configuration entries instead.</div><div>RegistryPath (R) The full Windows registry path of the current conduit. Do not use this property; use the PDConduitInfo object to access conduit configuration entries instead.</div></div>

[RemoteNameCount](#)

(R) The number of entries in the conduit's database
[NameList](#) property.

[SyncType](#)

(R) Synchronization type, which is one of the [ESyncTypes](#) constants.

[UserName](#)

(R) The HotSync user name of the user who is currently performing a HotSync operation.

Comments The values of these properties are passed in to a conduit when HotSync Manager calls its [BeginProcess\(\)](#) entry point.

See Also [PDHotsyncInfo](#) property.
[EConnectionType](#), [EFirstSync](#), [ESyncTypes](#) constants.

PDHotSyncUtility

Purpose A collection of utility methods for controlling the HotSync Manager application.

Methods

- [DisplayLog\(\)](#)
Displays the **HotSync Log** dialog box of the HotSync Manager application.
- [GetCommStatus\(\)](#)
Retrieves the status of the HotSync Manager application's communication types.
- [IsSyncInProgress\(\)](#)
Determines whether the HotSync Manager application is currently busy synchronizing a handheld.
- [LaunchCustomDlg\(\)](#)
Displays the **Custom** dialog box of the HotSync Manager application.
- [LaunchFileLinkDlg\(\)](#)
(Deprecated) Displays the **File Link** wizard of the HotSync Manager application.
- [LaunchSetupDlg\(\)](#)
Displays the **Setup** dialog box of the HotSync Manager application.
- [RefreshConduitInfo\(\)](#)
Requests that HotSync Manager reload information about all registered conduits.
- [ResetComm\(\)](#)
Resets the communication methods of the HotSync Manager application.
- [RestartHotSyncMgr\(\)](#)
Restarts the HotSync Manager application.
- [SetCommStatus\(\)](#)
Sets the status of the HotSync Manager application's communication types.
- [StartHotSyncMgr\(\)](#)
Starts the HotSync Manager application.
- [TerminateHotSyncMgr\(\)](#)
Closes the HotSync Manager application.

Properties	None.
Comments	The member methods of this object access the underlying HotSync Manager C API.
See Also	PDHotsyncInfo object.

PDInstall

Purpose A collection of methods for queuing databases (including applications) to be installed on the handheld (or files to be copied to an expansion card) during the next HotSync operation.

Methods [ChangeFileDestinationHHToSlot\(\)](#)
Changes the destination of a file that is already queued to be installed in primary storage on a user's *handheld* instead to be installed in secondary storage in an expansion *slot*.

[ChangeFileDestinationSlotToHH\(\)](#)
Changes the destination of a file that is already queued to be installed in secondary storage in an expansion *slot* instead to be installed in primary storage on a user's *handheld*.

[ChangeFileSlotDestination\(\)](#)
Changes from one expansion *slot* to another the destination of a file that is already queued to be installed in secondary storage in an expansion *slot* of a user's handheld.

[GetAllQueuedHHFiles\(\)](#)
Retrieves a list of all the files queued to be installed in the handheld's main memory for the specified user.

[GetAllQueuedHHFilesOfType\(\)](#)
Retrieves a list of all the files of the specified *type* that are queued to be installed in the handheld's main memory for the specified user.

[GetAllQueuedSlotFiles\(\)](#)
Retrieves a list of all the files queued to be installed to the handheld's specified expansion slot for a given user.

[GetHHFileSize\(\)](#)
Retrieves the size of the specified file that is queued to be installed to the handheld's main memory for a given user.

[GetPath\(\)](#)
Retrieves one of the stored desktop paths.

[GetSlotFileCount\(\)](#)
Retrieves the number of files queued to install to the specified slot for a given user.

[GetSlotFileSize\(\)](#)
Retrieves the size of the specified file queued to be installed to the handheld's specified expansion slot for a given user.

[InstallFileToHH\(\)](#)

Queues a file to be installed in primary storage on a user's handheld.

[InstallFileToSlot\(\)](#)

Queues a file to be installed in secondary storage in an expansion slot of a user's handheld.

[RemoveFileFromHHQueue\(\)](#)

Removes a file from the queue of files that are to be installed in primary storage on a user's *handheld*.

[RemoveFileFromSlotQueue\(\)](#)

Removes a file from the queue of files that are to be installed in secondary storage in an expansion *slot* of a user's handheld.

[SetPath\(\)](#)

Sets the value of one of the stored path variables.

Properties None.

Comments The member methods of this object access the underlying Install Aide C API.

Objects

PDInstallConduit

PDInstallConduit

Purpose A collection of utility methods for registering an [install conduit](#) with HotSync Manager and managing install conduit information.

Methods [GetDWORDData\(\)](#)
Retrieves a DWORD configuration entry value for the specified conduit.

[GetStringData\(\)](#)
Retrieves a String configuration entry value for the specified conduit.

[RegisterIC\(\)](#)
Registers an [install conduit](#) based on the information provided in a [PDInstallConduitInfo](#) object.

[SetDWORDData\(\)](#)
Sets a DWORD configuration entry value for the specified conduit.

[SetStringData\(\)](#)
Sets a String configuration entry value for the specified conduit.

[UnregisterIC\(\)](#)
Unregisters an install conduit with HotSync Manager.

Properties None.

Comments The member methods of this object access the underlying Install Conduit Manager C API.

See Also [PDInstallConduitInfo](#) object.

PDInstallConduitInfo

Purpose	Represents all the information to register an install conduit with HotSync Manager.
Methods	None. Use methods defined in PDInstallConduit to access PDInstallConduitInfo.
Properties	<div><div>Directory (R/W) Name of the install directory associated with this install conduit.</div><div>Extension (R/W) The file type extensions of the files that this install conduit can install.</div><div>Mask (R/W) A unique bit mask value associated with this install conduit.</div><div>Module (R/W) Filename of this install conduit.</div><div>Name (R/W) User-visible name of this install conduit.</div><div>UniqueId (R/W) Unique ID associated with this install conduit.</div></div>
Comments	The member properties of this object correspond to the conduit configuration entries created on the desktop when you register an install conduit.
See Also	PDInstallConduit object.

Objects

PDMemoDbHHRecord

PDMemoDbHHRecord

Purpose	Represents a Memo Pad record. Its properties represent the values of the standard Memo Pad fields.
Methods	<code>ReadFromByteStream</code> Private. <code>WriteToByteStream</code> Private.
Properties	<u>CategoryId</u> (R/W) Category ID specified by category index. <u>Index</u> (R/W) Position of this record in the Memo Pad database. <u>IsArchived</u> (R/W) Indicates whether this record is marked to be archived. <u>IsDeleted</u> (R/W) Indicates whether this record is marked to be deleted. <u>IsDirty</u> (R/W) Indicates whether this record is has been modified since the last synchronization. <u>IsPrivate</u> (R/W) Indicates whether this record is marked as private. <u>Memo</u> (R/W) Content of a this Memo Pad record. <u>UniqueId</u> (R/W) The record ID of this record.
Comments	<p>For a <u>PDMemoDbHHRecordAdapter</u> object, you can create a <code>PDMemoDbHHRecord</code> object, which represents the Memo Pad record that you read or write. Each of this object's properties is one of the fields in a Memo Pad record.</p> <p>Use this object with Memo Pad versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.</p>
Example	See the example under " <u>PDMemoDbHHRecordAdapter</u> " on page 61.
See Also	<u>PDMemoDbHHRecordAdapter</u> object.

PDMemoDbHHRecordAdapter

- Purpose** Represents an open Memo Pad record database. Its methods can iterate through records in a database serially or access them randomly.
- Methods**
- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
 - [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
 - [ReadAppInfoBlock\(\)](#)
Reads a record database's AppInfo block.
 - [ReadById\(\)](#)
Reads a record using its unique ID.
 - [ReadByIndex\(\)](#)
Reads a record using its index.
 - [ReadNext\(\)](#)
Reads the next record.
 - [ReadNextInCategory\(\)](#)
Reads the next record in a category.
 - [ReadNextModified\(\)](#)
Reads the next modified record.
 - [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
 - [ReadSortInfoBlock\(\)](#)
Reads a record database's SortInfo block.
 - [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
 - [Remove\(\)](#)
Deletes the specified record from an open record database on the handheld.
 - [RemoveSet\(\)](#)
Deletes a set of database records.

Objects

PDMemoDbHHRecordAdapter

[ResetAllModifiedFlags\(\)](#)

Resets the modified (dirty) flag of all records in the opened record database on the handheld.

[Write\(\)](#)

Writes a database record.

[WriteAppInfoBlock\(\)](#)

Writes an application info block to an open record database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open database on the handheld.

Properties

[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[PDCategories](#)

(R) Returns a [PDCategories](#) object representing the categories in this database.

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Comments

From a [PDDatabaseQuery](#) object, you can create a *PDMemoDbHHRecordAdapter* object, which represents the Memo Pad record database that you opened or created. With this object,

you can access Memo Pad records represented by [PDMemoDbHHRecord](#) objects.

Use this object with Memo Pad versions earlier than 6.0. It does not work with the application provided in Palm OS Cobalt.

When you *open* a Memo Pad database with this object, you must specify both the database's name and the full adapter name of this object:

```
OpenRecordDatabase("MemoDB", _  
    "PDStandard.PDMemoDbHHRecordAdapter", _  
    eRead Or eWrite Or eShowSecret)
```

When you *create* a Memo Pad database with this object, you must additionally specify the Memo Pad database's creator ID ('memo') and type ('DATA'):

```
CreateRecordDatabase("MemoDB", _  
    "PDStandard.PDMemoDbHHRecordAdapter", _  
    "memo", "DATA", eRead Or eWrite, eBackupDb, _  
    1, 0)
```

Reading database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named `ReadNextXXX()`, and require you to set the [IterationIndex](#) before using them. The iterator methods are:

- [ReadNext\(\)](#)
- [ReadNextInCategory\(\)](#)
- [ReadNextModified\(\)](#)
- [ReadNextModifiedInCategory\(\)](#)

Use the [EOF](#) property to determine when there are no more records in the iteration.

Direct methods to access records randomly are named `ReadByXXX`, namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).

To close the database, in Visual Basic, set the object reference to the value `Nothing`. In C++, the last `Release` of a `PDRecordAdapter` object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

Objects

PDMemoDbHHRecordAdapter

IMPORTANT: This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had `PDAddressDbHHRecordAdapter1` to open database "A," you cannot use `PDAddressDbHHRecordAdapter1` again to open database "B." You must define a new `PDAddressDbHHRecordAdapter` object to open database "B."

Example

```
' Declare the PDDatabaseQuery object.
Dim pDbQuery As New PDDatabaseQuery
Dim PMemoRecord As New PDMemoDbHHRecord
    'Declare the PDMemoDbRecordAdapter object
    Dim pMemoAdapter As PDMemoDbHHRecordAdapter

' First check whether a HotSync operation is in progress.
Dim PHotSyncManager As New PDHotSyncUtility

If Not PHotSyncManager.IsSyncInProgress Then
    MsgBox "COM Sync Suite objects are only active during a _
        HotSync operation. Refer to the COMSyncCompanion.pdf _
        manual for more information on how to create a debug _
        environment.", vbInformation, "Information"
    Exit Sub
End If

' Open the MemoDB database.
Set pMemoAdapter = pDbQuery.OpenRecordDatabase("MemoDB", _
    "PDStandard.PDMemoDbHHRecordAdapter", eRead Or eWrite Or _
    eShowSecret)

' Fill in record data.
PMemoRecord.Memo = "Text of memo."

' Write the record.
Dim uniqueid As Variant
uniqueid = pMemoAdapter.Write(PMemoRecord)
    MsgBox "Successfully created a memo."
```

See Also [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#), [PDMemoDbHHRecord](#) objects.
[CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods.
[ERemoveSetType](#) constants.

PDMemoryCardInfo

Purpose	Represents information about the handheld's primary storage (called a "memory card").
Methods	None.
Properties	<p><u>CardName</u> (R) Memory card name.</p> <p><u>CardNum</u> (R) Card number of the memory card on the handheld on which databases are stored.</p> <p><u>CardVersion</u> (R) Memory card version.</p> <p><u>CreationDate</u> (R) Memory card creation date.</p> <p><u>FreeRamSize</u> (R) Amount of available RAM on the card in bytes.</p> <p><u>ManufName</u> (R) Memory card manufacturer's name.</p> <p><u>RamDbCount</u> (R) Number of databases in primary storage RAM on the handheld.</p> <p><u>RamSize</u> (R) Total amount of RAM on the memory card in bytes.</p> <p><u>RomDbCount</u> (R) Number of databases in ROM on the handheld.</p> <p><u>RomSize</u> (R) Total amount of ROM on the memory card in bytes.</p>
See Also	<u>PDMemoryCardInfo</u> property.

PDRecordAdapter

- Purpose** Represents an open [classic database](#). Its methods can iterate through records in a database serially or access them randomly.
- Methods**
- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
 - [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
 - [ReadAppInfoBlock\(\)](#)
Reads a record database's application info block.
 - [ReadById\(\)](#)
Reads a record using its unique ID.
 - [ReadByIndex\(\)](#)
Reads a record using its index.
 - [ReadNext\(\)](#)
Reads the next record.
 - [ReadNextInCategory\(\)](#)
Reads the next record in a category.
 - [ReadNextModified\(\)](#)
Reads the next modified record.
 - [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
 - [ReadSortInfoBlock\(\)](#)
Reads a record database's sort info block.
 - [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
 - [Remove\(\)](#)
Deletes the specified record from an open record database on the handheld.
 - [RemoveSet\(\)](#)
Deletes a set of database records.
 - [ResetAllModifiedFlags\(\)](#)
Resets the modified (dirty) flag of all records in the opened record database on the handheld.

[Write\(\)](#)

Writes a database record.

[WriteAppInfoBlock\(\)](#)

Writes an application info block to an open record database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open database on the handheld.

Properties

[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[PDCategories](#)

(R) Returns a [PDCategories](#) object representing the categories in this database.

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Objects

PDRecordAdapter

- Comments** From a [PDDatabaseQuery](#) object, you can create a PDRecordAdapter object, which represents the classic record database that you opened or created.
- Reading classic database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named `ReadNextXXX()`, and require you to set the [IterationIndex](#) before using them. The iterator methods are:
- [ReadNext\(\)](#)
 - [ReadNextInCategory\(\)](#)
 - [ReadNextModified\(\)](#)
 - [ReadNextModifiedInCategory\(\)](#)
- Use the [EOF](#) property to determine when there are no more records in the iteration.
- Direct methods to access records randomly are named `ReadByXXX`, namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).
- To close the database, in Visual Basic, set the object reference to the value `Nothing`. In C++, the last `Release` of a PDRecordAdapter object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.
-
- IMPORTANT:** This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had PDRecordAdapter1 to open database "A," you cannot use PDRecordAdapter1 again to open database "B." You must define a new PDRecordAdapter object to open database "B."
-
- See Also** [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#) objects. [CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods. [ERemoveSetType](#) constants.

PDResourceAdapter

Purpose	Represents an open classic database created to contain resources rather than records. Its methods can iterate through resources in a database serially or access them randomly.
Methods	<p>AddLogEntry() Adds a text string to the HotSync® log on either the desktop or the handheld.</p> <p>ReadNextResource() Reads the next record in a resource database.</p> <p>ReadResource() Reads a resource record by index.</p> <p>RemoveAllResources() Deletes all resources from an open resource database on the handheld.</p> <p>RemoveResource() Deletes a resource from an open resource database on the handheld.</p> <p>WriteResource() Writes a resource to an open resource database on the handheld.</p>
Properties	<p>AccessMode (R) Open database access mode.</p> <p>CloseOptions (R/W) Update database dates on close.</p> <p>DbName (R) Name of this object's associated database on the handheld.</p> <p>EOF (R) Database iterator is at the end of the database.</p> <p>InputBufferSize (R) Size of the buffer to allocate to read record database data.</p> <p>IterationIndex (R/W) Current starting index for the record data iteration methods.</p>

Objects

PDResourceAdapter

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Comments

From a [PDDatabaseQuery](#) object, you can create a *PDResourceAdapter* object, which represents the resource database that you opened or created.

Reading database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named `ReadNextXXX()`, and require you to set the [IterationIndex](#) before using them. The iterator function is named [ReadNextResource\(\)](#). Use the [EOF](#) property to determine when there are no more records in the iteration.

The direct method to access records randomly is named [ReadResource\(\)](#).

To close the database, in Visual Basic, set the object reference to the value `Nothing`. In C++, the last `Release` of a *PDResourceAdapter* object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

IMPORTANT: This note applies to *Visual Studio .NET* users *only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had *PDResourceAdapter1* to open database "A," you cannot use *PDResourceAdapter1* again to open database "B." You must define a new *PDResourceAdapter* object to open database "B."

See Also

[PDDatabaseInfo](#) object.
[CreateResourceDatabase\(\)](#), [OpenResourceDatabase\(\)](#) methods.

PDSystemAdapter

Purpose	Handheld system functions.
Methods	<p><u>AddLogEntry()</u> Adds a text string to the HotSync® log on either the desktop or the handheld.</p> <p><u>CallRemoteModule()</u> Calls a module (an application, panel, or other executable) on the handheld and returns data and status information to your conduit from that module.</p> <p><u>HHOsVersion()</u> Returns the Palm OS® software version.</p> <p><u>ReadAppPreference()</u> Reads an application's preference block.</p> <p><u>ReadFeature()</u> Returns a feature.</p> <p><u>RebootSystem()</u> Sends a request to soft-reset the handheld at the end of the HotSync operation.</p> <p><u>SyncMgrAPIVersion()</u> Retrieves the version of the Sync Manager API that is installed on the desktop computer.</p> <p><u>WriteAppPreference()</u> Writes an application's preference block.</p>
Properties	<p><u>DateTime</u> (R/W) Current date and time on the handheld.</p> <p><u>LocalizationId</u> (R) Localization ID, currently unused.</p> <p><u>PDHotsyncInfo</u> (R) Returns a <u>PDHotsyncInfo</u> object representing information about the current HotSync session.</p> <p><u>PDMemoryCardInfo</u> (R) Returns a <u>PDMemoryCardInfo</u> object representing information about the handheld's primary storage (called a "memory card").</p>

Objects

PDSystemAdapter

[PDUserInfo](#)

(R) Returns a [PDUserInfo](#) object representing information about the current handheld user.

[ProductId](#)

(R) Handheld product ID.

[RomSoftwareVersion](#)

(R) Palm OS[®] software version on the handheld.

See Also

[PDHotsyncInfo](#), [PDMemoryCardInfo](#), [PDUserInfo](#), [PDRecordAdapter](#) objects.

PDSystemCondMgr

Purpose A collection of utility methods that register conduits with HotSync Manager for the system. These methods also manage information about these conduits.

Methods

- [CreatorIDToString\(\)](#)
Converts a Long conduit creator ID into a String.
- [GetBackupConduit\(\)](#)
Retrieves the name of HotSync Manager's [backup conduit](#) for the system.
- [GetConduitCount\(\)](#)
Returns the number of conduits registered with HotSync Manager for the system.
- [GetConduitInfo\(\)](#)
Returns complete information about a system-registered conduit in a [PDConduitInfo](#) object.
- [GetConduitList\(\)](#)
Returns a list of creator IDs of all the system-registered conduits.
- [GetDWORDData\(\)](#)
Retrieves a DWORD configuration entry value for the specified system-registered conduit.
- [GetStringData\(\)](#)
Retrieves a String configuration entry value for the specified system-registered conduit.
- [RegisterConduit\(\)](#)
Registers a conduit for the system based on the information provided in a [PDConduitInfo](#) object.
- [SetBackupConduit\(\)](#)
Sets the filename of the HotSync Manager backup conduit for the system.
- [SetDWORDData\(\)](#)
Sets a DWORD configuration entry value for the specified system-registered conduit.
- [SetStringData\(\)](#)
Sets a String configuration entry value for the specified system-registered conduit.

Objects

PDSystemCondMgr

[StringToCreatorID\(\)](#)

Converts a `String` into a `DWORD` conduit creator ID.

[UnregisterConduit\(\)](#)

Unregisters a system-registered conduit with HotSync Manager.

Properties None.

Comments The member methods of this object access the underlying Conduit Manager C API.

This object manages conduits for the system. To manage user-registered conduits and notifiers, use [PDCondMgr](#).

NOTE: COM Sync does not provide methods to register and manage system-registered notifiers or install conduits.

See Also [PDConduitInfo](#), [PDCondMgr](#) objects.
“[Registering Conduits and Notifiers with HotSync Manager](#)” on page 73 in *Introduction to Conduit Development*.

PDToDoDbHHRecord

Purpose	Represents a To Do List record. Its properties represent the values of the standard To Do List fields.
Methods	<code>ReadFromByteStream</code> Private. <code>WriteToByteStream</code> Private.
Properties	<u>CategoryId</u> (R/W) Category ID specified by category index. <u>Description</u> (R/W) Text describing this To Do List item. <u>DueDate</u> (R/W) Due date of this item. <u>Index</u> (R/W) Position of this record in the To Do List database. <u>IsArchived</u> (R/W) Indicates whether this record is marked to be archived. <u>IsCompleted</u> (R/W) <u>IsDeleted</u> (R/W) Indicates whether this record is marked to be deleted. <u>IsDirty</u> (R/W) Indicates whether this record is has been modified since the last synchronization. <u>IsPrivate</u> (R/W) Indicates whether this record is marked as private. <u>Notes</u> (R/W) Content of the note in this record. <u>Priority</u> (R/W) Priority of this To Do List item. <u>UniqueId</u> (R/W) The record ID of this record.

Objects

PDToDoDbHHRecord

Comments For a [PDToDoDbHHRecordAdapter](#) object, you can create a PDToDoDbHHRecord object, which represents the To Do List record that you read or write. Each of this object's properties is one of the fields in a To Do List record.

Use this object with To Do List versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.

Example See the example under "[PDToDoDbHHRecordAdapter](#)" on page 77.

See Also [PDToDoDbHHRecordAdapter](#) object.

PDToDoDbHHRecordAdapter

- Purpose** Represents an open To Do List record database. Its methods can iterate through records in a database serially or access them randomly.
- Methods**
- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
 - [ChangeCategory\(\)](#)
Changes all records of a particular category to a new category.
 - [ReadAppInfoBlock\(\)](#)
Reads a record database's application info block.
 - [ReadById\(\)](#)
Reads a record using its unique ID.
 - [ReadByIndex\(\)](#)
Reads a record using its index.
 - [ReadNext\(\)](#)
Reads the next record.
 - [ReadNextInCategory\(\)](#)
Reads the next record in a category.
 - [ReadNextModified\(\)](#)
Reads the next modified record.
 - [ReadNextModifiedInCategory\(\)](#)
Reads the next modified record in a category.
 - [ReadSortInfoBlock\(\)](#)
Reads a record database's sort info block.
 - [ReadUniqueIdList\(\)](#)
Creates a list of unique IDs in record index order.
 - [Remove\(\)](#)
Deletes the specified record from an open record database on the handheld.
 - [RemoveSet\(\)](#)
Deletes a set of database records.

Objects

PDToDoDbHHRecordAdapter

[ResetAllModifiedFlags\(\)](#)

Resets the modified (dirty) flag of all records in the opened record database on the handheld.

[Write\(\)](#)

Writes a database record.

[WriteAppInfoBlock\(\)](#)

Writes an application info block to an open record database on the handheld.

[WriteSortInfoBlock\(\)](#)

Writes a sort information block to an open database on the handheld.

Properties

[AccessMode](#)

(R) Open database access mode.

[CloseOptions](#)

(R/W) Update database dates on close.

[DbName](#)

(R) Name of this object's associated database on the handheld.

[EOF](#)

(R) Database iterator is at the end of the database.

[InputBufferSize](#)

(R) Size of the buffer to allocate to read record database data.

[IterationIndex](#)

(R/W) Current starting index for the record data iteration methods.

[PDCategories](#)

(R) Returns a [PDCategories](#) object representing the categories in this database.

[PDDatabaseInfo](#)

(R) Returns a [PDDatabaseInfo](#) object representing information about this database.

[RecordCount](#)

(R) Number of records in this database.

Comments From a [PDDatabaseQuery](#) object, you can create a PDToDoDbHHRecordAdapter object, which represents the To Do List record database that you opened or created. With this object, you can access To Do List records represented by [PDToDoDbHHRecord](#) objects.

Use this object with To Do List versions earlier than 6.0. It does not work with the the application provided in Palm OS Cobalt.

When you *open* a To Do List database with this object, you must specify both the database's name and the full adapter name of this object:

```
OpenRecordDatabase("ToDoDB", _
    "PDStandard.PDToDoDbHHRecordAdapter", _
    eRead Or eWrite Or eShowSecret)
```

When you *create* a To Do List database with this object, you must additionally specify the To Do List database's creator ID ('todo') and type ('DATA'):

```
CreateRecordDatabase("ToDoDB", _
    "PDStandard.PDToDoDbHHRecordAdapter", _
    "todo", "DATA", eRead Or eWrite, eBackupDb, _
    1, 0)
```

Reading database records can be accomplished in one of two ways. Records can be accessed serially using the iterator methods, or randomly using the direct methods. The iterator methods are named ReadNextXXX(), and require you to set the [IterationIndex](#) before using them. The iterator methods are:

- [ReadNext\(\)](#)
- [ReadNextInCategory\(\)](#)
- [ReadNextModified\(\)](#)
- [ReadNextModifiedInCategory\(\)](#)

Use the [EOF](#) property to determine when there are no more records in the iteration.

Direct methods to access records randomly are named ReadByXXX, namely [ReadById\(\)](#) and [ReadByIndex\(\)](#).

To close the database, in Visual Basic, set the object reference to the value Nothing. In C++, the last Release of a PRecordAdapter

Objects

PDToDoDbHHRecordAdapter

object closes the database. If you want to update the database dates upon close, set the [CloseOptions](#) as you wish before closing the database.

IMPORTANT: This note applies to *Visual Studio .NET users only*. Though you can open more than one database at a time, you cannot do so with the same object. For example, if you had `PDToDoDbHHRecordAdapter1` to open database "A," you cannot use `PDToDoDbHHRecordAdapter1` again to open database "B." You must define a new `PDToDoDbHHRecordAdapter` object to open database "B."

Example

```
' Declare the PDDatabaseQuery object.
Dim pDbQuery As New PDDatabaseQuery
Dim PToDoRecord As New PDToDoDbHHRecord
    'Declare the PDToDoDbRecordAdapter object
    Dim pToDoAdapter As PDToDoDbHHRecordAdapter

' First check whether a HotSync operation is in progress.
Dim PHotSyncManager As New PDHotSyncUtility

If Not PHotSyncManager.IsSyncInProgress Then
    MsgBox "COM Sync Suite objects are only active during a _
        HotSync operation. Refer to the COMSyncCompanion.pdf _
        manual for more information on how to create a debug _
        environment.", vbInformation, "Information"
    Exit Sub
End If

' Open the ToDoDB database.
Set pToDoAdapter = pDbQuery.OpenRecordDatabase("ToDoDB", _
    "PDStandard.PDAddressDbHHRecordAdapter", eRead Or eWrite _
    Or eShowSecret)

' Fill in record data.
PToDoRecord.Description = "Buy a Palm Powered™ handheld."
PToDoRecord.DueDate = Date
PToDoRecord.Priority = 1
PToDoRecord.Notes = "This has been a subliminal message _
    brought to you by PalmSource, Inc."
```

```
' Write the record.  
Dim uniqueid As Variant  
uniqueid = pToDoAdapter.Write(PToDoRecord)  
    MsgBox "Successfully created a To Do List item."
```

See Also [PDDatabaseQuery](#), [PDCategories](#), [PDDatabaseInfo](#),
[PDToDoDbHHRecord](#) objects.
[CreateRecordDatabase\(\)](#), [OpenRecordDatabase\(\)](#) methods.
[ERemoveSetType](#) constants.

PDUserData

Purpose A collection of utility methods for accessing the **users data store** on the desktop computer.

Methods

- [AddNewUser\(\)](#)
Adds a user to the users data store.
- [DeleteKey\(\)](#)
Deletes a key or an entire section from the specified user's area of the users data store.
- [DeleteUser\(\)](#)
Deletes a user from the users data store.
- [DeleteUserPermanentSyncPreferences\(\)](#)
Deletes the permanent synchronization preferences for *all* of the specified user's conduits.
- [DeleteUserTemporarySyncPreferences\(\)](#)
Deletes the temporary synchronization preferences for *all* of the specified user's conduits.
- [GetIDFromName\(\)](#)
Retrieves a unique **user ID** given the user's name.
- [GetIDFromPath\(\)](#)
Retrieves a user ID given the user directory.
- [GetIntegerValue\(\)](#)
Retrieves an integer value from a key in the specified user's area of the users data store.
- [GetRootDirectory\(\)](#)
Retrieves the path of all user directories on the desktop computer (as stored in the [Core\Path](#) HotSync Manager configuration entry).
- [GetSlotCount\(\)](#)
Retrieves the number of expansion slots on the handheld for the specified user.
- [GetSlotDisplayName\(\)](#)
Retrieves the display name for the given slot on the specified user's handheld.
- [GetSlotInstallDirectory\(\)](#)
Retrieves the slot-install directory name (not the full path) for the specified user and handheld slot.

[GetSlotList\(\)](#)

Retrieves a list of all the slot IDs for each of the expansion slots present on the specified user's handheld.

[GetSlotMediaType\(\)](#)

Retrieves the media type of the given slot on the specified user's handheld.

[GetStringValue\(\)](#)

Retrieves a string value from a key in the specified user's area of the users data store.

[GetUserCount\(\)](#)

Returns the number of users in the users data store.

[GetUserDirectory\(\)](#)

Retrieves the user directory's name for the specified user ID.

[GetUserList\(\)](#)

Retrieves a list of user IDs.

[GetUserNameFromID\(\)](#)

Retrieves a user name in the users data store given a user ID.

[GetUserPassword\(\)](#)

Retrieves the encrypted user password for the specified user ID.

[GetUserPermanentSyncPreferences\(\)](#)

Retrieves a conduit's permanent synchronization preferences for the specified user ID.

[GetUserTemporarySyncPreferences\(\)](#)

Retrieves a conduit's temporary synchronization preferences for the specified user ID.

[IsProfileUser\(\)](#)

Determines whether an account is a **user profile**.

[RemoveUserTemporarySyncPreferences\(\)](#)

Removes the specified conduit's temporary synchronization preferences for the specified user ID.

[SetIntegerValue\(\)](#)

Sets an integer value to a key in the specified user's area of the users data store.

Objects

PDUserData

[SetStringValue\(\)](#)

Sets a string value to a key in the specified user's area of the users data store.

[SetUserDirectory\(\)](#)

Sets the directory name of the specified user ID.

[SetUserName\(\)](#)

Sets the user name of the specified user ID.

[SetUserPermanentSyncPreferences\(\)](#)

Sets a conduit's permanent synchronization preferences for the specified user ID.

[SetUserTemporarySyncPreferences\(\)](#)

Sets a conduit's temporary synchronization preferences for the specified user ID.

Properties None.

Comments The member methods of this object access the underlying User Data C API.

PDUserInfo

Purpose	Current handheld user information.
Methods	None.
Properties	<div><div>UserId</div><div>(R) User ID, which specifies the user to reference in the users data file.</div></div> <div><div>LastSyncDate</div><div>(R) Last synchronization date.</div></div> <div><div>LastSyncPC</div><div>(R) ID assigned by HotSync Manager of the last PC that was synchronized with this handheld.</div></div> <div><div>Password</div><div>(R) Encrypted handheld password.</div></div> <div><div>UserName</div><div>(R) Name of the handheld user in the user data store to synchronize with.</div></div> <div><div>ViewerId</div><div>(R) ID of the handheld. Not currently used.</div></div>
See Also	PDUserInfo property.

PDUtility

Purpose A collection of utility methods for manipulating strings, byte arrays, and integers.

Methods

- [AllBytesToBSTR\(\)](#)
Creates a String from all the bytes in a string Byte array.
- [BSTRToByteArray\(\)](#)
Inserts a String into a Byte array.
- [BSTRToDWORD\(\)](#)
Converts a four-character string to an unsigned Long—for example, to convert creator IDs and database types.
- [ByteArrayToBSTR\(\)](#)
Extracts a String from a Byte array.
- [ByteArrayToDWORD\(\)](#)
Extracts an unsigned Long from a Byte array (for example, a record ID).
- [ByteArrayToHexBSTR\(\)](#)
Converts an input Byte array to a formatted hex display String.
- [ByteArrayToRecordId\(\)](#)
Converts a Byte array to a record ID.
- [ByteArrayToWORD\(\)](#)
Extracts an unsigned Integer from a Byte array.
- [DWORDToBSTR\(\)](#)
Converts an unsigned Long to a four-character String. Used for creator IDs, database type, and others.
- [DWORDToByteArray\(\)](#)
Inserts an unsigned Long into a Byte array.
- [RecordIdToByteArray\(\)](#)
Converts a record ID to a Byte array.
- [RecordIdToString\(\)](#)
Converts record ID to a readable String.
- [StringToRecordId\(\)](#)
Converts a string (BSTR) to record ID.
- [SwapDWORD\(\)](#)
Swaps the bytes of an unsigned Long.

[SwapWORD\(\)](#)

Swaps the bytes of an unsigned Integer.

[WORDToByteArray\(\)](#)

Inserts an unsigned Integer into a Byte array.

Properties None.

PDVFSFileManager

Purpose Represents a file or directory created or opened by a [PDVFSVolumeManager](#) object. Its methods can read and write open files or directories.

Methods [Close\(\)](#)
Closes this open file on an expansion card.

[Read\(\)](#)
Reads data from a file on an expansion card into the specified buffer.

[Seek\(\)](#)
Sets the position from which to read or write within an open file on an expansion card.

[Tell\(\)](#)
Gets the current position of the file pointer within an open file on an expansion card.

[Write\(\)](#)
Writes data to an open file on an expansion card.

Properties [Attributes](#)
Attributes of a file or directory on an expansion card, such as whether it is read-only.

[CreationDate](#)
Creation date for a file or directory.

[EOF](#)
The file pointer has reached the end of the file.

[LastAccessedDate](#)
Last accessed date of a file or a directory on an expansion card.

[LastModificationDate](#)
Last modification date of a file or a directory on an expansion card.

[Size](#)
Size of a file on an expansion card or what to resize a file to.

Comments Call the [PDVFSVolumeManager.Open\(\)](#) method to create a PDVFSFileManager object.

See Also [PDVFSVolumeManager](#) object.
[Open\(\)](#), [GetFileList\(\)](#), [GetSubDirectoryList\(\)](#),
[ImportDatabaseFromFile\(\)](#) methods.
[EPDFFileOrigin](#) constants.

PDVFSManager

Purpose Represents the Virtual File System (VFS) Manager on the desktop. Its methods can detect the presence of and get information about file system volumes available on a given expansion card in a handheld. It can get volume reference numbers for all mounted volumes, which you subsequently use to create a [PDVFSVolumeManager](#) object.

Methods

[GetVolumeCount\(\)](#)
Retrieves the total number of mounted volumes on cards in all expansion slots.

[GetVolumeManager\(\)](#)
Creates a [PDVFSVolumeManager](#) object to access a given volume.

[GetVolumeReferenceList\(\)](#)
Retrieves a list of the volume reference numbers of all mounted volumes.

[IsVolumeAvailable\(\)](#)
Determines whether there is a volume available on the handheld.

Properties None.

Comments The VFS Manager is a layer of software that allows conduits to access all installed file systems on handheld expansion cards. It provides a unified interface to conduit developers while allowing them to seamlessly access many different types of file systems—such as VFAT, HFS, and NFS—on many different types of media, including Secure Digital (SD), MultiMediaCard (MMC), CompactFlash, Sony’s Memory Stick, and others.

See Also [PDVFSVolumeManager](#) object.
[SlotReferenceNumber](#) property.

PDVFSVolumeManager

- Purpose** Represents a volume on an expansion card. Its methods can create files and directories, copy files to and from the desktop, and import/export files and Palm OS® databases between primary storage memory and an expansion card.
- Methods**
- [CopyFileFromDeskTop\(\)](#)
Copies a file from the desktop to a volume on a handheld expansion card.
 - [CopyFileToDeskTop\(\)](#)
Copies a file from a volume on a handheld expansion card to the desktop.
 - [CreateDirectory\(\)](#)
Creates a directory on this volume on a handheld expansion card.
 - [CreateFile\(\)](#)
Creates a file on this volume on a handheld expansion card.
 - [Delete\(\)](#)
Deletes a closed file or empty directory on this volume on a handheld expansion card.
 - [ExportDatabaseToFile\(\)](#)
Flattens and exports the specified database on the handheld to the specified PDB or PRC file on an expansion card. Works only with classic databases.
 - [Format\(\)](#)
Formats and mounts this volume.
 - [GetDefaultDirectory\(\)](#)
Retrieves the default directory on this volume on an expansion card for files of the specified type.
 - [GetFileList\(\)](#)
Retrieves the names of all the files in a given directory.
 - [GetSubDirectoryList\(\)](#)
Retrieves the names of all the subdirectories in a given directory.
 - [ImportDatabaseFromFile\(\)](#)
Creates a database from the specified PDB or PRC file on an expansion card. Works only with classic databases.

Objects

PDVFSVolumeManager

[Open\(\)](#)

Opens a file or directory on an expansion card and returns a [PDVFSFileManager](#) object.

[Rename\(\)](#)

Renames a closed file or directory on an expansion card.

Properties

[Attributes](#)

Attributes of a volume on an expansion card, such as whether it is read-only.

[FileSystemType](#)

Type of file system on this volume on an expansion card.

[Label](#)

Label of this volume on an expansion card.

[MediaType](#)

Type of media supported by the expansion card.

[mountClass](#)

Mount class of the file system driver that mounted this volume on an expansion card.

[SlotLibRefNumber](#)

Reference number for the slot driver shared library on the handheld that is allocated to the slot number on which this volume is mounted.

[SlotReferenceNumber](#)

Reference number for the expansion slot that holds this volume.

[TotalCapacity](#)

Total capacity, in bytes, of this volume on an expansion card.

[UsedSpace](#)

Amount of space, in bytes, already in use on this volume on an expansion card.

Comments Call [PDVFSManager.GetVolumeManager\(\)](#) to create this object. Then use [PDVFSVolumeManager](#) methods to access a particular volume.

See Also [PDVFSManager](#) object.
[GetVolumeManager\(\)](#), [Close\(\)](#), [Read\(\)](#), [Write\(\)](#), [Tell\(\)](#), [Seek\(\)](#) methods.
[VFS Volume Mount Class Constants](#), [EPDVFSFileSystemType](#) constants.

Objects

PSDCategoryAdapter

PSDCategoryAdapter

Purpose Represents the collection of categories in a schema database.

Methods [AddCategory\(\)](#)

Adds a new category to a schema database and returns its category ID.

[GetCount\(\)](#)

Retrieves the number of categories in a schema database.

[GetIDList\(\)](#)

Retrieves a list of the category IDs in a schema database.

[GetModifiedIDList\(\)](#)

Retrieves a list of the IDs of modified categories in a schema database.

[GetNameList\(\)](#)

Retrieves the names of all of the categories in a schema database.

[IsDirty\(\)](#)

Determines whether a category has been modified since the last HotSync operation.

[RemoveCategory\(\)](#)

Removes a category from a schema database.

[RenameCategory\(\)](#)

Changes the name of a category in a schema database.

Properties [Name](#)

(R) Category name specified by category ID in a schema database.

PSDColumnInfo

Purpose	Represents information about a column in a schema database.
Methods	None.
Properties	<div><div>DataType (R/W) Type of data stored in a column in a schema database.</div><div>Dynamic (R/W) Flag that indicates whether a column in a schema is dynamic.</div><div>ID (R/W) Column ID of a column in a schema.</div><div>MaxSize (R/W) Maximum size of a column in a schema.</div><div>Name (R/W) Name of a column in a schema.</div><div>NonSyncable (R/W) Flag that indicates whether the data in a column is to be synchronized.</div><div>WritableExceptionInReadOnlyRows (R/W) Flag that indicates whether the data in a column is writable.</div></div>

PSDDatabaseAdapter

Purpose Represents an open [schema database](#). Its methods manage rows, groups of rows with the same schema (tables), columns, and each row's category membership.

Methods

- [AddTable\(\)](#)
Adds a new table to a schema database.
- [DeleteRowsInCategory\(\)](#)
Deletes rows whose category IDs match those on the specified list according to the specified match mode.
- [GetCategoryAdapter\(\)](#)
Returns a category adapter object for a schema database.
- [GetColumnCustomProperty\(\)](#)
Retrieves the value of a custom column property in a table.
- [GetDatabaseInfo\(\)](#)
Retrieves information about this schema database.
- [GetDatabaseHandle\(\)](#)
Returns the handle of this open schema database.
- [GetModifiedTableNames\(\)](#)
Retrieves the names of tables that have been modified since the last HotSync operation.
- [GetRowAdapter\(\)](#)
Returns a row adapter object for this schema database.
- [GetSyncTypeInfo\(\)](#)
Retrieves the synchronization mode of a sync atom for this schema database in the current HotSync operation.
- [GetTableCount\(\)](#)
Returns the total number of tables in this schema database.
- [GetTableInfo\(\)](#)
Returns information about a table in this schema database.
- [GetTableNames\(\)](#)
Retrieves the names of all of the tables in this schema database.
- [MoveRowsToCategory\(\)](#)
Moves all of the rows that belong to a specified set of categories into another category.

[RemoveCategoryFromAllRows\(\)](#)

Removes all matching rows from a specified list of categories in this schema database.

[RemoveColumnCustomProperty\(\)](#)

Removes a custom property from a table column in this schema database.

[RemoveTable\(\)](#)

Removes a table from this schema database.

[SetColumnCustomProperty\(\)](#)

Sets the value of a custom column property in a table.

Properties None.

Objects

PSDDatabaseInfo

PSDDatabaseInfo

Purpose Represents information about a schema database.

Methods None.

Properties [Attributes](#)

(R) Flags that indicate the attributes of this schema database.

[BackupDate](#)

(R) Date that this database was last backed up.

[CreationDate](#)

(R) Date on which this schema database was created.

[CreatorID](#)

(R) Creator ID of this schema database.

[DataBytes](#)

(R) Number of bytes of storage used by this schema database for data only, excluding overhead.

[DisplayName](#)

(R) Display name of this schema database.

[Encoding](#)

(R) Type of character encoding of text data in a schema database only.

[Flags](#)

(R) Flags that indicate whether this schema database is excluded from HotSync operations and whether it is in RAM on the handheld.

[IsReadOnlyDatabase](#)

(R) Flag that indicates whether this schema database is read-only.

[IsSecureDatabase](#)

(R) Flag that indicates whether this schema database is secure.

[ModifyDate](#)

(R) Date on which this schema database was most recently modified.

[ModifyNumber](#)

(R) The database modification number, which is incremented every time a row in this schema database is added, modified, or deleted on the handheld.

[Name](#)

(R) Internal name of this schema database.

[RowCount](#)

(R) Number of rows in this schema database.

[TableCount](#)

(R) Number of tables in this schema database.

[TotalBytes](#)

(R) Total number of bytes of storage used by this database, including overhead.

[Type](#)

(R) Database type of this schema database.

[Version](#)

(R) An application-specific version number of this database.

See Also

[BackupDatabase\(\)](#), [GetDatabaseInfo\(\)](#),
[InstallAndBackupDatabase\(\)](#),
[IsDatabaseBackupNeeded\(\)](#), [ReadDatabaseInfoByName\(\)](#),
[ReadBackupImageInfo\(\)](#) methods.

PSDDatabaseQuery

Purpose Represents the collection of databases on the handheld. Some of this objects's methods are specific to schema databases and are indicated as such below.

Methods

- [AddLogEntry\(\)](#)
Adds a text string to the HotSync log on either the desktop or the handheld.
- [BackupSecurityData\(\)](#)
Backs up vault databases from the handheld to a directory on the desktop.
- [CloseDatabase\(\)](#)
(Schema databases only) Closes an open schema database.
- [CreateDatabase\(\)](#)
(Schema databases only) Creates a schema database.
- [DeleteDatabase\(\)](#)
(Schema databases only) Deletes a schema database and all of its data.
- [GenerateBackupFileName\(\)](#)
Generates the unique backup filename of a database specified by its name, creator, type, and attributes.
- [GetChangeContext\(\)](#)
Retrieves the [change context](#) for a schema database from the handheld.
- [GetDeskTopTrustStatus\(\)](#)
Determines whether the HotSync operation in progress is with a trusted desktop.
- [InstallDatabase\(\)](#)
Installs a database image file on the desktop to primary storage on a handheld.
- [OpenDatabase\(\)](#)
(Schema databases only) Opens a schema database.
- [ReadBackupImageInfo\(\)](#)
Reads the database header information from a backup image file on the desktop.

[ReadDatabaseInfoByName\(\)](#)

Retrieves information about a database given its name, creator ID, and type.

[ReadDatabaseNameList\(\)](#)

Returns the names of all databases on the handheld that match the specified creator ID and type.

[RestoreSecurityData\(\)](#)

Restores **vault** databases from the desktop to the handheld.

Properties None.

Comments This object provides some methods that operate on all all types of database: classic, extended, and schema databases. However, its methods to create/open/close/delete operate only on schema databases, as indicated above. To perform these actions on classic databases, use [PDDatabaseQuery](#); on extended databases, use [DmDatabaseQuery](#).

This is the first object that you need to create if you want to use these methods to access databases on the handheld. You can open/create as many schema databases on the handheld as you need. But because the underlying Sync Manager API permits only one open database at a time, performance degrades if you intermix record access from more than one database.

Objects

PSDDatabaseUtilities

PSDDatabaseUtilities

Purpose	A collection of utility methods for backing up and installing databases during a HotSync operation, determining desktop trust status, and managing security data.
Methods	<p><u>BackupDatabase()</u> Backs up a handheld database to a directory or file on the desktop.</p> <p><u>BackupSecurityData()</u> Backs up vault databases from the handheld to a directory on the desktop.</p> <p><u>CallDeviceApplication()</u> Calls an application on a Palm OS Cobalt handheld and returns data and status information to your conduit from that application.</p> <p><u>GenerateBackupFileName()</u> Generates the unique backup filename of a database specified by its name, creator, type, and attributes.</p> <p><u>GetDesktopTrustStatus()</u> Determines whether the HotSync operation in progress is with a trusted desktop.</p> <p><u>InstallAndBackupDatabase()</u> Installs a database on the handheld from an image file on the desktop and then backs up the same database.</p> <p><u>InstallDatabase()</u> Installs a database image file on the desktop to primary storage on a handheld.</p> <p><u>IsDatabaseBackupNeeded()</u> Determines whether the desktop backup file for a database on the handheld is out-of-date.</p> <p><u>ReadBackupImageInfo()</u> Reads the database header information from a backup image file on the desktop.</p> <p><u>RestoreSecurityData()</u> Restores vault databases from the desktop to the handheld.</p>
Properties	None.

Comments This object provides some methods that operate on all all types of database: classic, extended, and schema databases. However, its methods to create/open/close/delete operate only on schema databases, as indicated above. To perform these actions on classic databases, use [PDDatabaseQuery](#); on extended databases, use [DmDatabaseQuery](#).

This is the first object that you need to create if you want to use these methods to access databases on the handheld. You can open/create as many schema databases on the handheld as you need. But because the underlying Sync Manager API permits only one open database at a time, performance degrades if you intermix record access from more than one database.

PSDRowAdapter

- Purpose** Represents an open [schema database](#). Its methods can manipulate rows in a table.
- Methods**
- [AddCategoryMembership\(\)](#)
Adds a row to all of the categories in the specified list in a schema database.
 - [AddRow\(\)](#)
Adds a new row to a table in a schema database.
 - [DeleteAllRowsInTable\(\)](#)
Marks all rows as deleted in a table in a schema database.
 - [DeleteRow\(\)](#)
Marks a row as deleted in a schema database.
 - [GetCategoryMembership\(\)](#)
Retrieves a row's category memberships in a schema database.
 - [GetRowCountInTable\(\)](#)
Retrieves the number of rows in a table in a schema database.
 - [IsRowInCategory\(\)](#)
Determines whether a row belongs to a set of categories.
 - [ModifyRow\(\)](#)
Writes an entire row—attributes, category memberships, and column values—to a schema database on the handheld.
 - [PurgeAllRowsInTable\(\)](#)
Removes all the rows that are marked as deleted in a table in a schema database.
 - [ReadColumnValue\(\)](#)
Reads the specified bytes of a column value from a row in a schema database.
 - [ReadColumnValues\(\)](#)
Reads the specified column values from a row in a schema database.
 - [ReadIDList\(\)](#)
Retrieves the row IDs of all the rows in a table that are in a set of categories.

[ReadModifiedIDList\(\)](#)

Retrieves the row IDs of all the modified rows in a table that are in a set of categories.

[ReadModifiedRows\(\)](#)

Reads the modified rows in a table that match the specified criteria.

[ReadRow\(\)](#)

Reads an entire row—attributes, category memberships, and column values—from a schema database on the handheld.

[ReadRowInfo\(\)](#)

Retrieves information about a row, but no column values, from a schema database on the handheld.

[ReadRows\(\)](#)

Reads entire rows that match the given criteria from a schema database on the handheld.

[ReadRowsByIDList\(\)](#)

Reads entire rows that are on the specified row ID list from a schema database on the handheld.

[RemoveAllSecretRowsInTable\(\)](#)

Removes all of the secret rows in a table in a schema database.

[RemoveCategoryMembership\(\)](#)

Removes a row from all of the categories on a list.

[RemoveRow\(\)](#)

Removes a row from a schema database.

[SetCategoryMembership\(\)](#)

Adds a row to all the categories on a list.

[WriteColumnValue\(\)](#)

Writes the specified bytes of a single column value to a row in a schema database.

[WriteColumnValues\(\)](#)

Writes a set of column values to a row in a schema database.

Properties None.

Comments To create a PSDRowAdapter object, call
[PSDDatabaseAdapter.GetRowAdapter\(\)](#).

Objects

PSDRowData

PSDRowData

Purpose	Represents the data in a table row in a schema database.
Methods	<ul style="list-style-type: none"><u>AttachToTable()</u> Attaches this object to a table's schema.<u>GetCategoryCount()</u> Retrieves the number of categories to which this row belongs.<u>GetColumnsWithData()</u> Retrieves a list of names of the columns in this row that contain data.<u>GetDataSize()</u> Retrieves the size of a column value in this row.<u>GetDataType()</u> Retrieves the data type of a column in this row.<u>IsArchived()</u> Determines whether this row is marked for archiving.<u>IsDataModified()</u> Determines whether this row contains column data that is marked as modified since the last HotSync operation.<u>IsDeleted()</u> Determines whether this row has been marked as deleted.<u>IsMembershipModified()</u> Determines whether this row's category memberships have been modified.
Properties	<ul style="list-style-type: none"><u>CategoryIDList</u> (R) List of categories to which this row belongs.<u>ColumnIDFromName</u> (R) Column ID specified by column name.<u>ColumnNameFromID</u> (R) Column name specified by column ID.<u>IsDataPresent</u> (R) Flag that indicates whether a column in this row contains valid data.<u>IsPrivate</u> (R/W) Flag that indicates whether this row is marked private.

[IsReadOnly](#)

(R/W) Flag that indicates whether this row is marked read-only.

[RowID](#)

(R) The unique row ID of this row.

[TableName](#)

(R) The name of the table that this row is in.

[Value](#)

(R/W) The value of a column in this row that is specified by column name.

[ValueByID](#)

(R/W) The value of a column in this row that is specified by column ID.

Comments

All PSDRowData methods use column names rather than column IDs, except where necessary.

PSDRowSet

Purpose	Represents a set of schema database rows that is returned by PSDRowAdapter methods that can read more than one row.
Methods	GetCurrentRowID() Retrieves the current row ID in this set of rows. GetRowCount() Retrieves the number of rows in this row set. MoveFirst() Moves the cursor to the first row in this set and returns an object representing the first row. MoveLast() Moves the cursor to the last row in this set and returns an object representing the last row. MoveNext() Moves the cursor to the next row in this set and returns an object representing this row. MovePrevious() Moves the cursor to the previous row in this set and returns an object representing this row. MoveTo() Moves the cursor to the specified row in this set and returns an object representing this row.
Properties	BOF (R/W) The cursor has reached the beginning of this row set. EOF (R) The cursor is at the end of the row set.
Comments	The methods of this object allow you to iterate through all the rows in the PSDRowSet object returned by the PSDRowAdapter methods listed in “See Also” below.
Example	See the RowSet sample provided in the COM Sync Suite of the CDK.
See Also	PSDRowAdapter object. ReadRows() , ReadModifiedRows() , ReadRowsByIDList() , ReadModifiedIDList() methods.

PSDTable

Purpose Represents the schema of a table in a schema database.

Methods

- [AddColumn\(\)](#)
Adds a column definition to the schema of this table.
- [GetColumnCount\(\)](#)
Retrieves the number of columns in this table.
- [GetColumnIDList\(\)](#)
Retrieves the column IDs of all columns in this table.
- [GetColumnInfoByID\(\)](#)
Retrieves a column definition from this table given a column ID.
- [GetColumnInfoByName\(\)](#)
Retrieves a column definition from this table given a column name.
- [GetColumnNames\(\)](#)
Retrieves a list of all the column names in this table.
- [RemoveColumns\(\)](#)
Removes column definitions from this table given a list of column IDs.

Properties

- [Name](#)
(R/W) Name of this table in a schema database.

Objects

PSDTable

Methods

This chapter describes the COM Sync methods in alphabetical order.

Methods

AddCategory

AddCategory

- Purpose** Adds a new category to a schema database and returns its category ID.
- Applies to** [PSDCategoryAdapter](#) object.
- Prototype** Function **AddCategory**(ByVal *CategoryName* As String)
As Long
- Parameters** → *CategoryName*
Text string to add to the desktop or handheld HotSync log.
- Returns** The category ID of the newly created category.

AddCategoryMembership

Purpose	Adds a row to all of the categories in the specified list in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Sub AddCategoryMembership (ByVal <i>vRowID</i> , <i>CategoryIDList</i>)
Parameters	<div>→ <i>vRowID</i> The row ID of the row to add to the specified categories.</div> <div>→ <i>CategoryIDList</i> An array of category IDs. This method adds the row to all of these categories.</div>
Returns	None.
Comments	

Methods

AddColumn

AddColumn

- Purpose** Adds a column definition to the schema of this table.
- Applies to** [PSDTable](#) object.
- Prototype** Sub **AddColumn** (*PSDColumnInfo* As IPSDColumnInfo)
- Parameters** → *PSDColumnInfo*
A [PSDColumnInfo](#) object that defines a column to add.
- Returns** None.

AddLogEntry

Purpose Adds a text string to the HotSync® log on either the desktop or the handheld.

Applies to [DmDatabaseQuery](#), [DmRecordAdapter](#), [PDSystemAdapter](#), [PDDatabaseQuery](#), [PDResourceAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.

Prototype Sub **AddLogEntry** (ByVal *pLogText* As String, [ByVal *eActivity* As ELogActivity = eText], [ByVal *bTimeStamp* As Boolean = True], [ByVal *bPalmLog* As Boolean = False])

→ *pLogText*

Text string to add to the desktop or handheld HotSync log.

→ *eActivity*

Log activity constant, see [ELogActivity](#) constants.

→ *bTimeStamp*

Boolean that selects whether a timestamp is added to the desktop log entry. Applies only to the desktop log. When True, add a time stamp. When False, don't add a time stamp.

→ *bPalmLog*

Boolean that selects whether to add to the handheld or desktop HotSync log. When True, add comments to the handheld log. When False, add comments to the desktop log.

Returns None.

Methods

AddLogEntry

Example

```
Dim pSystem as New PDSYSTEMAdapter
Dim pLogText as String
' Add to the desktop log
pLogText = "Add this string to the desktop log."
pSystem.AddLogEntry(pLogText, eText)
' Add to the HotSync log
pLogText = "Add this string to the HotSync log."
pSystem.AddLogEntry(pLogText, , , True)
```

See Also [ELogActivity](#) constants.

AddNewUser

Purpose	Adds a user to the users data store.
Applies to	PDUserData object.
Prototype	Sub AddNewUser (UserName As String, bIsProfileUser As Boolean)
Parameters	<p>→ <i>UserName</i> A string containing the name of the user to add. It must be no more than 20 characters long.</p> <p>→ <i>bIsProfileUser</i> If True, this method creates a new user profile named UserName. If False, it creates a regular user account.</p>
Returns	None.
Errors	<p>eInvalidUser UserName is not an acceptable string.</p> <p>eNoCorePath No path to find the users data store was found.</p> <p>eNoUsers The users data store exists, but contains no information.</p> <p>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</p> <p>eSaveErr Saving changes was not successfully completed.</p> <p>eUDSemaphoreError Another method or program is accessing the user data store.</p> <p>eUDUnableToCreate Creating a new users data store failed because of a file error.</p> <p>eUserExists The user name has already been created.</p>
Comments	If the users data store does not exist, this method creates it and adds the new user to it.
See Also	DeleteUser() , GetIDFromName() methods

Methods

AddRow

AddRow

Purpose	Adds a new row to a table in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Function AddRow (<i>PSDRowData</i> As IPSDRowData) As Variant
Parameters	→ <i>PSDRowData</i> A PSDRowData object that specifies the new row's data.
Returns	The row ID of this new row.
Comments	

AddTable

Purpose	Adds a new table to a schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub AddTable (<i>PSDTable</i> As PSDTable)
Parameters	→ <i>PSDTable</i> Specifies the PSDTable object to add to this schema database.
Returns	None.
Comments	This method adds the table information specified in <i>PSDTable</i> to this schema database.

Methods

AllBytesToBSTR

AllBytesToBSTR

Purpose	Creates a String from all the bytes in a string Byte array.
Applies to	PDUtility object.
Prototype	Function AllBytesToBSTR (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>pSubstitute</i> as Byte, <i>pString</i> as String) as Long
Parameters	<div><div>→ <i>vData</i> Byte array containing the data to convert.</div><div>→ <i>nOffset</i> Zero-based index into array <i>vData</i> from which to extract the string.</div><div>→ <i>pSubstitute</i> Substitute character for nondisplay values.</div><div>← <i>pString</i> Output string.</div></div>
Returns	The next offset in the Byte array.
Comments	Use this method to convert mixed ASCII/non-ASCII arrays to displayable strings. This method substitutes a character for all nondisplay characters.

Example	<pre>Sub DisplayRecord(Record As Variant) Dim Utility As New PDUtility Dim Display As String Dim NextOffset As Long ' Convert input byte array to string NextOffset = Utility.AllBytesToBSTR(Record, _ 0, Asc("."), Display) txtValue.Text = Display End Sub</pre>
----------------	--

AttachToTable

- Purpose** Attaches this object to a table's schema.
- Applies to** [PSDRowData](#) object.
- Prototype** Sub **AttachToTable** (*pAdapter* As IPSDDatabaseAdapter,
ByVal *TableName* As String)
- Parameters**
- *pAdapter*
A [PSDDatabaseAdapter](#) object returned by [CreateDatabase\(\)](#) or [OpenDatabase\(\)](#), which specifies the schema database that this row data is in.
 - *TableName*
The name of the table to attach this object to.
- Returns** None.

Methods

BackupDatabase

BackupDatabase

- Purpose** Backs up a handheld database to a directory or file on the desktop.
- Applies to** [PSDDatabaseUtilities](#) object.
- Prototype** Sub **BackupDatabase** (ByVal *Name* As String, ByVal *vCreatorID*, ByVal *vDBType*, ByVal *Attribute* As EPSDDBAAttribute, ByVal *FilePath* As String, ByVal *bAlwaysBackup* As Boolean, *PSDDatabaseInfo* As IPSDDatabaseInfo)
- Parameters**
- *Name*
The [database name](#) as a null-terminated string. Do not pass in a null value.
 - *vCreatorID*
Creator ID of the database as a Variant—for example, 'adrs'. See [PSDDatabaseInfo.CreatorID](#).
 - *vDBType*
The database type as a Variant—for example, 'DATA'. See [PSDDatabaseInfo.Type](#). The type is only used as a cross-check and may be set to zero if you don't care what its value is.
 - *Attribute*
A [EPSDDBAAttribute](#) enum value that specifies whether the database is a schema, extended, or classic database.
 - *FilePath*
The destination path or filename of the backup file, as a null-terminated string. If the caller specifies a directory path, then the Sync Manager generates the filename automatically, appends it to the specified directory path, and passes it back upon return; in this case *FilePath* must be large enough to contain the entire path (directory + filename). Do not pass in a null value.
 - *bAlwaysBackup*
If True, always back up the database. If False, backup the database only if necessary; for a description of how Sync Manager determines whether a database needs to be backed up, see [IsDatabaseBackupNeeded\(\)](#).

← *PSDDatabaseInfo*

A [PSDDatabaseInfo](#) object that receives values for the following properties of the database that this method backed up: [Attributes](#), [BackupDate](#), [CreationDate](#), [CreatorID](#), [Flags](#), [IsReadOnlyDatabase](#), [ModifyDate](#), [ModifyNumber](#), [Name](#), [Type](#), and [Version](#). Note that this method uses the [Type](#) and [Attributes](#) passed *back* in this object to generate the backup filename, if *FilePath* is a directory.

Returns None.

Comments Based on the handheld database that you specify, this method creates or updates an image file of it on the desktop. This method enables a conduit to transfer an entire database to the desktop in a single call.

The caller specifies the database by its name, creator ID, type, and attributes (whether it is a classic, extended, or schema database).

NOTE: This function works only with handhelds running Palm OS Cobalt.

If *FilePath* is a directory, this function automatically generates the backup filename from the database creator, type, name, and attributes so that you do not have to call [GenerateBackupFileName\(\)](#) first.

This function backs up the database only if *all* of the following statements are true:

- The file or path (*FilePath*) is writable.
- If the database is secure, the desktop must be trusted.
- *Either* of the following is true:
 - The corresponding call to [IsDatabaseBackupNeeded\(\)](#) returns `True`. This method tests backup dates, backup bit, whether the database and file exist and whether their names, creator IDs, and types match.
 - The *bAlwaysBackup* parameter is `True`.

Methods

BackupDatabase

NOTE: If the database's backup bit is not set, this function does not back it up, unless you set *bAlwaysBackup* to `True`. But note that doing so causes this method to back up the database even if the specified image file on the desktop is already up to date.

Compatibility Palm OS version: Palm OS Cobalt, version 6.0 or later.

See Also [IsDatabaseBackupNeeded\(\)](#),
[InstallAndBackupDatabase\(\)](#) methods.

BackupSecurityData

Purpose	Backs up vault databases from the handheld to a directory on the desktop.
Applies to	PSDDatabaseQuery , PSDDatabaseUtilities object.
Prototype	Sub BackupSecurityData (ByVal <i>Path</i> As String)
Parameters	<i>→ Path</i> The path of the destination directory of the vault files, as a null-terminated string. The Sync Manager generates the filenames automatically. Do not pass in a null value.
Returns	None.
Comments	<p>The Authorization Manager on the handheld stores all the relevant information to support secure databases—such as HEKs, rules, tokens, and so on—in one or more special secure databases called vaults. A backup conduit must back up vaults at the end of every HotSync session <i>after</i> all other databases. This function ensures that vaults are backed up in the order mandated by the Authorization Manager.</p> <p>After a handheld is reset, vaults must be restored to the handheld <i>before</i> all other databases so that the Authorization Manager allows other secure databases to be restored afterwards. See RestoreSecurityData().</p>
Compatibility	Sync Manager version: 2.4 or later. Palm OS version: Palm OS Cobalt, version 6.0 or later.

Methods

BeginProcess

BeginProcess

Purpose	Sets up connection to begin the synchronization process.
Applies to	IPDClientNotify interface
Prototype	Function BeginProcess () as Boolean
Returns	A Boolean to indicate to the server whether to enable or disable connection. The client should return True to indicate that it is continuing to process. The client should return False to indicate that it is finished and that the server should shut down the connection.
Comments	Clients use this method to process databases during the HotSync process. Clients can return either True or False depending on what they plan to do. Object requests processing continues until either a False is returned or the client releases all objects.
Example	<pre>Private Function IPDClientNotify_BeginProcess() As Boolean ' Procedure Main contains conduit code Call Main ' Done processing. Return False to allow HotSync Manager to ' continue running other conduits. IPDClientNotify_BeginProcess = False End Function</pre>

BSTRToByteArray

Purpose	Inserts a String into a Byte array.
Applies to	PDUtility object.
Prototype	Function BSTRToByteArray (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>pString</i> as String) as Long
Parameters	<div>← <i>vData</i> Byte array to be manipulated.</div> <div>→ <i>nOffset</i> Zero-based index where insertion begins.</div> <div>→ <i>pString</i> String to insert.</div>
Returns	The next offset in the Byte array.
Comments	Inserts <i>pString</i> plus a Null terminator in the Byte array at the position indexed by the integer value <i>nOffset</i> . These strings contain ASCII values, not Unicode.
Example	<pre>Sub InsertString(Record As Variant, Value As String) Dim Utility As New PDUtility Dim NextOffset As Long ' Insert the string in the array NextOffset = Utility.BSTRToByteArray(Record, 0, Value) End Sub</pre>

Methods

BSTRToDWORD

BSTRToDWORD

Purpose	Converts a four-character string to an unsigned Long—for example, to convert creator IDs and database types.
Applies to	PDUtility object.
Prototype	Function BSTRToDWORD (<i>pBstr</i> As String, [<i>bSwap</i> As Boolean = True]) As Long
Parameters	<div>→ <i>pBstr</i> String to convert.</div> <div>→ <i>bSwap</i> If True, this method swaps the bytes in the returned Long value.</div>
Returns	The converted unsigned Long.
Example	<pre>Dim Utility As New PDUtility Dim Value as String Dim dwVal as Long ' Convert the string Value = "Abcd" dwVal = Utility.BSTRToDWORD(Value, True)</pre>
See Also	DWORDToBSTR() method.

ByteArrayToBSTR

Purpose	Extracts a String from a Byte array.
Applies to	PDUtility object.
Prototype	Function ByteArrayToBSTR (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>nLength</i> as Long, <i>pString</i> as String) as Long
Parameters	<div>→ <i>vData</i> Byte array containing the data to extract.</div> <div>→ <i>nOffset</i> Zero-based index into array <i>vData</i> from which to extract the string (zero based).</div> <div>→ <i>nLength</i> String length to extract.</div> <div>← <i>pString</i> Output string.</div>
Returns	The next offset in the Byte array following the string just extracted.
Comments	Extracts a string including the terminating Null. The <i>nLength</i> parameter permits you to specify a maximum string length for fields which may or may not be Null-terminated. For normal strings, set this to a large value (a number greater than the array length.)
Example	<pre>Sub GetString(Record As Variant, Value As String) Dim Utility As New PDUtility Dim nextOffset As Long ' Extract the string from the array nextOffset = Utility.ByteArrayToBSTR(Record, 0, _ 32767, Value) End Sub</pre>

Methods

ByteArrayToDWORD

ByteArrayToDWORD

Purpose	Extracts an unsigned Long from a Byte array (for example, a record ID).
Applies to	PDUtility object.
Prototype	Function ByteArrayToDWORD (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>bSwap</i> as Boolean, <i>nDWordVal</i> as Long) as Long
Parameters	<div><div>→ <i>vData</i> Input Byte array.</div><div>→ <i>nOffset</i> Zero-based index into array <i>vData</i> from which to extract the unsigned long value.</div><div>→ <i>bSwap</i> If True, this method swaps the bytes before extracting.</div><div>← <i>nDWordVal</i> Unsigned Long extracted by this method.</div></div>
Returns	The next offset in the Byte array.
Example	<pre>Sub ExtractDWORD(Record as Variant, Value as Long) Dim Utility As New PDUtility Dim NextOffset As Long ' Extract the value NextOffset = Utility.ByteArrayToDWORD(Record, 0, True, _ Value) End Sub</pre>

ByteArrayToHexBSTR

Purpose	Converts an input Byte array to a formatted hex display String.
Applies to	PDUtility object.
Prototype	Function ByteArrayToHexBSTR (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>nCount</i> as Long, <i>pString</i> as String) as Long
Parameters	<p>The ByteArrayToHexBSTR method syntax has these parts:</p> <p>→ <i>vData</i> Input Byte array.</p> <p>→ <i>nOffset</i> Zero-based index into array <i>vData</i> where conversion begins.</p> <p>→ <i>nCount</i> Number of bytes to convert.</p> <p>← <i>pString</i> Output hex display string.</p>
Returns	The next offset in the Byte array.
Comments	<p>The input Byte array is formatted into a standard hexadecimal display, format including CRLF pairs at the end of each sequence.</p> <p>Input array: This is a test. Use it in the text box.</p> <hr/> <p>Output string: 000000 54 68 69 73 20 69 73 20 61 20 74 65 73 74 2E 20 This is a test. 000010 55 73 65 20 69 74 20 69 6E 20 74 68 65 20 74 65 Use it in the text box. 000020 78 74 20 62 6F 78 2E 2E</p> <hr/>

Methods

ByteArrayToHexBSTR

Example

```
Sub DisplayHex(Record As Variant)
    Dim Utility As New PDUtility
    Dim NextOffset As Long
    Dim Value as String
    Dim Count As Integer
    ' Convert the string
    Count = UBound(Record) - LBound(Record) + 1
    NextOffset =_
        Utility.ByteArrayToHexBSTR(Record, 0, Count, Value)
    ' Display the string
    txtValue.Text = Value
End Sub
```

ByteArrayToRecordId

Purpose	Converts a Byte array to a record ID.
Applies to	PDUtility object.
Prototype	Function ByteArrayToRecordId (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>bSwap</i> as Boolean, <i>vRecordId</i> as Variant) as Long
Parameters	<p>→ <i>vData</i> Input Byte array.</p> <p>→ <i>nOffset</i> Zero-based index into array <i>vData</i> from which to extract the record ID.</p> <p>→ <i>bSwap</i> If True, this method swaps the bytes before extracting.</p> <p>← <i>vRecordId</i> Record ID returned as a Variant.</p>
Returns	The next offset in the Byte array.
Comments	This method is provided to convert a Byte array, usually read from the binary file that contains your record data, into a record ID. You can use the returned <i>vRecordId</i> in methods like ReadById() , Write() , and so on. Currently record IDs are long integers, but this may change in the future. PalmSource strongly recommends that you use PDUtility methods such as these to convert record IDs between Byte array and String formats.
Example	<pre>Sub ExtractRecordId(bArray as Variant, vRecordId as Variant) Dim Utility As New PDUtility Dim NextOffset As Long ' Extract the value NextOffset = Utility.ByteArrayToRecordId(bArray, 0, True, _ vRecordId) End Sub</pre>

Methods

ByteArrayToWORD

ByteArrayToWORD

Purpose	Extracts an unsigned Integer from a Byte array.
Applies to	PDUtility object.
Prototype	Function ByteArrayToWORD (<i>vData</i> as Variant, <i>nOffset</i> as Long, <i>bSwap</i> as Boolean, <i>nWordVal</i> as Integer) as Long
Parameters	<div><div>→ <i>vData</i> Input Byte array.</div><div>→ <i>nOffset</i> Zero-based index into array <i>vData</i> where unsigned Integer value is extracted.</div><div>→ <i>bSwap</i> If True, this method swaps the bytes before extracting.</div><div>← <i>nWordVal</i> Unsigned Integer extracted by this method.</div></div>
Returns	The next offset in the Byte array.
Example	<pre>Sub InsertWORD(Record as Variant, Value as Integer) Dim Utility As New PDUtility Dim NextOffset As Long ' Extract the value NextOffset = Utility.ByteArrayToWORD(Record, 0, _ False, Value) End Sub</pre>

CallDeviceApplication

Purpose	Calls an application on a Palm OS Cobalt handheld and returns data and status information to your conduit from that application.
Applies to	PSDDatabaseUtilities object.
Prototype	Function CallDeviceApplication (ByVal <i>DatabaseName</i> As String, ByVal <i>vCreatorID</i> , ByVal <i>Attribute</i> As EPSDDDBAttribute, ByVal <i>ActionCode</i> As Long, ByVal <i>TypeID</i> As Long, <i>vInputData</i> , <i>vResultData</i>) As Long
Parameters	<div><div>→ <i>DatabaseName</i> A null-terminated string that specifies the database name of the target application. Do not pass in a null value.</div><div>→ <i>vCreatorID</i> The creator ID of the target application.</div><div>→ <i>Attribute</i> A EPSDDDBAttribute enum value that specifies whether the database is a schema, extended, or classic database.</div><div>→ <i>ActionCode</i> The application-specific code that specifies the action to perform.</div><div>→ <i>TypeID</i> Specifies the database type ID of the target application. Type is used only as a cross-check and may be set to zero if you don't care what the database type is.</div><div>→ <i>vInputData</i> Input parameter array to the function called on the handheld.</div><div>← <i>vResultData</i> A Byte array containing the results passed back to the conduit from the handheld application.</div></div>
Returns	The result code returned by the handheld application.
Comments	This method works only with handhelds running Palm OS Cobalt, version 6.0.1 or later. For these handhelds, use this function rather than CallRemoteModule() . <code>CallDeviceApplication()</code> allows you to uniquely identify the target application by creator ID, database name, and database attributes (classic, extended, or schema).

Methods

CallDeviceApplication

Most conduits can accomplish their jobs without using this method. PalmSource recommends not using this method unless absolutely essential. An example of an unavoidable use of this method is when you need to call your application to create a secure database. For details, see “[Creating Secure Databases](#)” on page 134 in *Introduction to Conduit Development*.

This method enables the caller to send arbitrary data in the *vInputData* parameter to an application on the handheld during a HotSync operation. The application can pass back variable-sized information in *vResultData* as a byte array, which the caller can examine when this method returns.

Note that the format of the data and the action codes are completely application-specific. The handheld application that you call must have the same structure as a Palm OS application; however, the application can have a proprietary type ID so that it does not show up in the Launcher.

When a [Palm OS Protein application](#) is the target, you can set *Attribute* to (ePSDSchemaDBType Or ePSDExtendedDBType) to indicate that the application may resided in either an extended or schema database. When a [68K application](#) is the target, set *Attribute* to zero.

When you call `CallDeviceApplication()` from a conduit, the application on the handheld launches with a `sysAppLaunchCmdHandleSyncCallApp` launch code. To handle this launch code, the handheld application must cast the command parameter block passed to `PilotMain()` to a `SysAppLaunchCmdHandleSyncCallAppType` pointer. The `SysAppLaunchCmdHandleSyncCallAppType` structure contains all the information that the caller passed into `CallDeviceApplication()` on the desktop as well as the necessary fields to pass the result back to the desktop.

After the handheld application processes the `sysAppLaunchCmdHandleSyncCallApp` launch code, it must send a `DlkCallAppReplyParamType` reply back to the desktop using the DLServer’s (`DLServer.h`) `DlkControl()` function.

[Table 4.1](#) and [Table 4.2](#) are some important mappings from this method's parameters to the SysAppLaunchCmdHandleSyncCallAppType and DlkCallAppReplyParamType structures on the handheld.

**Table 4.1 Mapping from desktop
CallDeviceApplication() parameters to
handheld
SysAppLaunchCmdHandleSyncCallAppType**

CallDeviceApplication() parameters	SysAppLaunchCmdHandleSyncCallAppType structure
<i>ActionCode</i>	action
Size of <i>vInputData</i>	dwParamSize
<i>vInputData</i>	paramP

**Table 4.2 Mapping from desktop desktop
CallDeviceApplication() parameters to
handheld DlkCallAppReplyParamType**

CallDeviceApplication() parameters	DlkCallAppReplyParamType structure
Size of <i>vResultData</i>	dwResultSize
<i>vResultData</i>	resultP
CallDeviceApplication() return value	dwResultCode

For more information and example handheld application code, see *Exploring Palm OS: System Management*.

Methods

CallDeviceApplication

Example The sample below calls the HotSync client application with an action code that simply tests this method.

```
Dim pUtils As New PSDDatabaseUtilities
Dim ConvertCreator As New PDCondMgr
Dim vInputData As Variant
Dim vResultData As Variant
Dim nResultCode As Long
Dim i As Integer
Dim strData As String

nResultCode = pUtils.CallDeviceApplication("HotSync", _
    "sync", ePSDExtendedDBType, 1, _
    ConvertCreator.StringToCreatorID("appl"), vInputData, _
    vResultData)

If nResultCode = 0 Then
    For i = 0 To UBound(vResultData)
        If Chr(vResultData(i)) <> vbNullChar Then
            strData = strData + Chr(vResultData(i))
        End If
    Next i
    ' strData should contain the word "SUCCESS".
End If
```

Compatibility Palm OS version: Palm OS Cobalt, version 6.0.1 or later.

CallRemoteModule

Purpose	Calls a module (an application, panel, or other executable) on the handheld and returns data and status information to your conduit from that module.
Applies to	PDSystemAdapter object.
Prototype	Function CallRemoteModule (<i>vCreator</i> as Variant, <i>vDbType</i> as Variant, <i>nAction</i> as Integer, <i>vParams</i> as Variant, <i>nResultSize</i> as Long, <i>nResultCode</i> as Long) as Variant
Parameters	<div><div>→ <i>vCreator</i> Module creator ID. The unique ID associated with the application on the handheld.</div><div>→ <i>vDbType</i> Database Type. Four characters that can be in either Long (VT_I4) or Little Endian form.</div><div>→ <i>nAction</i> Action code specific to the module being called.</div><div>→ <i>vParams</i> Input parameter array to the remote method.</div><div>↔ <i>nResultSize</i> Before the call, the requested size (in bytes) of the return values block. After the call, the actual size (in bytes) of the return values block.</div><div>← <i>nResultCode</i> Return code from the module.</div></div>
Returns	A Byte array containing the return values block.
Comments	IMPORTANT: This method works only with classic databases, which is how 68K applications are stored. It works on both Palm OS Cobalt and Palm OS Garnet or earlier handhelds, but on Palm OS Cobalt handhelds it can call only a classic database. To call a Palm OS Protein application on a Palm OS Cobalt handheld, you must use CallDeviceApplication() instead.

Most conduits can accomplish their jobs without using this method. PalmSource recommends not using this function unless absolutely essential.

Methods

CallRemoteModule

This method enables the caller to send arbitrary data in the *vParams* parameter to a module on the handheld during a HotSync operation. The module can pass back variable-sized information in this method's return value, which the caller can examine when this method returns.

Note that the format of the data and the action codes are completely module-specific. The handheld module that you call must have the same structure as a Palm OS application; however, the module can have a proprietary type ID so that it does not show up in the Launcher.

When you call `CallRemoteModule()` from a conduit, the module on the handheld launches with a `sysAppLaunchCmdHandleSyncCallApp` launch code. To handle this launch code, the handheld module must cast the command parameter block passed to `PilotMain()` to a `SysAppLaunchCmdHandleSyncCallAppType` pointer. The `SysAppLaunchCmdHandleSyncCallAppType` structure contains all the information that the caller passed into `CallRemoteModule()` on the desktop as well as the necessary fields to pass the result back to the desktop.

After the handheld module processes the `sysAppLaunchCmdHandleSyncCallApp` launch code, it must send a `DlkCallAppReplyParamType` reply back to the desktop using the DLServer's (`DLServer.h`) `DlkControl()` function.

[Table 4.3](#) and [Table 4.4](#) are some important mappings from this method's parameters to the `SysAppLaunchCmdHandleSyncCallAppType` and `DlkCallAppReplyParamType` structures on the handheld.

Table 4.3 Mapping from desktop `CallRemoteModule()` parameters to handheld `SysAppLaunchCmdHandleSyncCallAppType`

<code>CallRemoteModule()</code> parameters	<code>SysAppLaunchCmdHandleSyncCallAppType</code> structure
<i>nAction</i>	action
Size of <i>vParams</i>	dwParamSize
<i>vParams</i>	paramP

Table 4.4 Mapping from desktop `CallRemoteModule()` parameters to handheld `DlkCallAppReplyParamType`

<code>CallRemoteModule()</code> parameters	<code>DlkCallAppReplyParamType</code> structure
<i>nResultSize</i>	dwResultSize
<code>CallRemoteModule()</code> return value	resultP
<i>nResultCode</i>	dwResultCode

For more information and example handheld application code, see *Exploring Palm OS: System Management*.

For Palm OS Cobalt Handhelds

When *vDbType* is zero, `CallRemoteModule()` launches the first application returned by `DmFindDatabaseByTypeCreator(dmFindClassicDB)` with type `sysFileTApplication`. If there is no such application, `DLServer` launches the first application returned by `DmFindDatabaseByTypeCreator(dmFindClassicDB)` with type `sysFileTPanel`. Otherwise, `DLServer` returns an error. So `CallRemoteModule()` really treats setting *vDbType* to zero as a substitute for first calling with a type ID of `sysFileTApplication` then a type ID of `sysFileTPanel`.

Methods

CallRemoteModule

As noted above, this method calls only classic databases; it cannot be used to call a [Palm OS Protein application](#) on a Palm OS Cobalt handheld.

Example

```
Dim pSystem as New PDSysAdapter
Dim vParams as Variant, vResult as Variant
Dim nResultSize as Long, nResultCode as Long
nResultSize = 100
vResult = pSystem.CallRemoteModule("Abcd", "xxxx", 1, _
    vParams, nResultSize, nResultCode)
```

Compatibility

Palm OS version: Palm OS 2.0 or later. See “Comments.”

On a handheld running Palm OS Cobalt, version 6.0 and a desktop running Sync Manager 2.4 or earlier, if both an ARM-native application (extended resource database) and a 68K application (classic resource database) with the same name and creator ID are present on the handheld, you cannot specify which application that this function calls. Therefore the application that this method calls is indeterminate in this situation. This problem has been fixed in Sync Manager 2.5 so that this method calls only classic databases.

See Also

[CallDeviceApplication\(\)](#)

CfgConduit

Purpose	<p>Notifies a conduit when the user selects it from HotSync Manager's Custom dialog box. Called only by HotSync Manager versions 3.0 and later (earlier versions call ConfigureConduit() instead).</p>
Applies to	<p>IPDClientNotify interface</p>
Prototype	<p>Sub CfgConduit (<i>nCreatorId</i> as Long, <i>nUserId</i> as Long, BSTR <i>bstrUserName</i>, BSTR <i>bstrPathName</i>, <i>nSyncPerm</i> as Long, <i>nSyncTemp</i> as Long, <i>nSyncNew</i> as Long, <i>nSyncPref</i> as Long)</p>
Parameters	<p>→ <i>nCreatorId</i> Creator ID of the conduit</p> <p>→ <i>nUserId</i> ID of the current user.</p> <p>→ <i>bstrUserName</i> Name of the current user.</p> <p>→ <i>bstrPathName</i> The fully-qualified path to the conduit.</p> <p>↔ <i>nSyncPerm</i> The kind of synchronization to perform on a permanent basis. This must be one of the ESyncTypes constants.</p> <p>↔ <i>nSyncTemp</i> The kind of synchronization to perform on a one-time (temporary) basis. This must be one of the ESyncTypes constants.</p> <p>↔ <i>nSyncNew</i> The kind of synchronization to perform for a new handheld. This must be one of the ESyncTypes.</p> <p>↔ <i>nSyncPref</i> Temporary or permanent change, see ESyncPref constants.</p>
Returns	<p>None.</p>

Methods

CfgConduit

Comments HotSync Manager calls the `CfgConduit()` method when a user decides to configure your conduit by clicking **HotSync Manager > Custom**. Usually a conduit responds by displaying a “Change HotSync Action” dialog box for the user to configure how the conduit performs during the next and all subsequent HotSync operations.

`CfgConduit()` is an updated version of the [ConfigureConduit\(\)](#) method, which is used for the same purpose. This method receives different information from what `ConfigureConduit()` does. Versions 3.0 and later of HotSync Manager will attempt to call `CfgConduit()` before falling back to calling `ConfigureConduit()`. If your conduit must support HotSync Manager versions earlier than 3.0, then you must implement `ConfigureConduit()` also.

Example

```
Private Sub IPDClientNotify_CfgConduit(ByVal nCreatorId _
    As Long, ByVal nUserId As Long, ByVal bstrUserName_
    As String, ByVal bstrPathName As String, nSyncPerm As_
    Long, nSyncTemp As Long, nSyncNew As Long, _
    nSyncPref As Long)
On Error GoTo ErrorHandler
' Read the current SyncType for the Configuration form
gConfigSyncType = nSyncPerm
' Show the Configuration form and save the user selected_
    HotSync state back to gConfigSyncType frmSetup._
    Show vbModal
'Return the new SyncType to Hotsync from our gConfigSyncType_
    saved variable
nSyncNew = gConfigSyncType
' Set this new HotSync type as the permanent HotSync type.
nSyncPref = ePermanentPreference
Exit Sub

ErrorHandler:
    ' Do error handling here.
End Sub
```

See Also [ConfigureConduit\(\)](#) method.
[ESyncPref](#), [ESyncTypes](#) constants.

ChangeCategory

Purpose	Changes all records of a particular category to a new category.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Sub ChangeCategory (ByVal <i>nOldCategory</i> As Long, ByVal <i>nNewCategory</i> As Long)
Parameters	→ <i>nOldCategory</i> Original category ID. → <i>nNewCategory</i> New category ID.
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenGet Conduit _ InfoRecordDatabase("Memo", "PDDirect PDRecordAdapter" ' _ eRead Or eWrite) Adapter.ChangeCategory(1, 2)</pre>
----------------	--

Methods

ChangeFileDestinationHHToSlot

ChangeFileDestinationHHToSlot

Purpose	Changes the destination of a file that is already queued to be installed in primary storage on a user's <i>handheld</i> instead to be installed in secondary storage in an expansion <i>slot</i> .
Applies to	PDInstall object.
Prototype	Sub ChangeFileDestinationHHToSlot (<i>UserID</i> As Long, <i>SlotID</i> As Long, <i>FileName</i> As String)
Parameters	<div><div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div><div>→ <i>SlotID</i> The ID of the slot to install the file to. To get slot IDs, use PDUserData's GetSlotList() method.</div><div>→ <i>FileName</i> The name of the file to move (include no path).</div></div>
Returns	None.
Errors	<div>eInvalidPath The path of the slot-install directory is longer than 256 characters and cannot be retrieved.</div> <div>eMoveFailed This method failed to move the specified install file because, for example, the file does not exist.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method moves a file on the desktop computer from the associated handheld-install directory—that is, the directory associated with the install conduit registered to handle files of the type to be moved—to the specified slot-install directory. This method accepts only file types that are registered with an install conduit—for example, .prc, .pdb, and .pqa file types are registered with the Install conduit that ships with HotSync Manager, so this method can move such files to a user's slot-install directory.

Example

```
Dim PInstall As New PInstall
Dim UserData As New PDUserData
Dim UserId As Long

' Retrieve the user ID from the HotSync Manager user name.
UserId = UserData.GetIDFromName("Palm OS Emulator")

Call PInstall.ChangeFileDestinationHHToSlot(UserId, 0, _
    "c:\temp\MyApp.prc")
```

See Also

[GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetSlotList\(\)](#),
[ChangeFileDestinationSlotToHH\(\)](#),
[ChangeFileSlotDestination\(\)](#) methods

Methods

ChangeFileDestinationSlotToHH

ChangeFileDestinationSlotToHH

Purpose	Changes the destination of a file that is already queued to be installed in secondary storage in an expansion <i>slot</i> instead to be installed in primary storage on a user's <i>handheld</i> .
Applies to	PDInstall object.
Prototype	Sub ChangeFileDestinationSlotToHH (<i>UserID</i> As Long, <i>SlotID</i> As Long, <i>FileName</i> As String)
Parameters	<div><div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div><div>→ <i>SlotID</i> The ID of the <i>source</i> slot (the one <i>from</i> which to move the file). The file currently exists in the slot-install directory of this slot. To get slot IDs, use PDUserData's GetSlotList() method.</div><div>→ <i>FileName</i> The name of the file to move (include no path).</div></div>
Returns	None.
Errors	<div>eInvalidPath The path of the slot-install directory is longer than 256 characters and cannot be retrieved.</div> <div>eMoveFailed This method failed to move the specified install file because, for example, the file does not exist.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method moves a file on the desktop computer from the specified slot-install directory to the associated handheld-install directory—that is, to the directory associated with the install conduit registered to handle files of the specified type. This method accepts only file types that are registered with an install conduit—for example, .prc, .pdb, and .pqa file types are registered with the Install conduit that ships with HotSync Manager, so this method can move such files to a user's handheld-install directory.

Example

```
Dim PInstall As New PInstall
Dim UserData As New PDUserData
Dim UserId As Long

' Retrieve the user ID from the HotSync Manager user name.
UserId = UserData.GetIDFromName("Palm OS Emulator")

Call PInstall.ChangeFileDestinationSlotToHH(UserId, 0, _
    "c:\temp\MyApp.prc")
```

See Also

[GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#),
[GetSlotList\(\)](#), [ChangeFileDestinationHHToSlot\(\)](#),
[ChangeFileSlotDestination\(\)](#) methods

Methods

ChangeFileSlotDestination

ChangeFileSlotDestination

Purpose	Changes from one expansion <i>slot</i> to another the destination of a file that is already queued to be installed in secondary storage in an expansion <i>slot</i> of a user's handheld.
Applies to	PDInstall object.
Prototype	Sub ChangeFileSlotDestination (<i>UserID</i> As Long, <i>SourceSlotID</i> As Long, <i>TargetSlotID</i> As Long, <i>File</i> As String)
Parameters	<div><div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div><div>→ <i>SourceSlotID</i> The ID of the <i>source</i> slot (the one <i>from</i> which to move the file). The file currently exists in the install directory of this slot. To get slot IDs, use PDUserData's GetSlotList() method.</div><div>→ <i>TargetSlotID</i> The ID of the <i>target</i> slot (the one <i>to</i> which to move the file). The file is to be moved to the install directory of this slot. To get slot IDs, use PDUserData's GetSlotList() method.</div><div>→ <i>File</i> The name of the file to move (include no path).</div></div>
Returns	None.
Errors	<div>eInvalidPath The path of the slot-install directory is longer than 256 characters cannot be retrieved.</div> <div>eMoveFailed This method failed to move the specified install file because, for example, the file does not exist.</div> <div>eParamError Parameters were not passed correctly.</div>

Comments This method moves a file on the desktop computer from one slot-install directory to another slot-install directory. It is useful for users whose handhelds have multiple slots. This method accepts all file types.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetSlotList\(\)](#), [ChangeFileDestinationHHToSlot\(\)](#), [ChangeFileDestinationSlotToHH\(\)](#) methods

Methods

Close

Close

Purpose	Closes this open file on an expansion card.
Applies to	PDVFSFileManager object.
Prototype	Sub Close ()
Parameters	None.
Returns	None.
Errors	<div>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</div> <div>eVFSInvalidOperation A file system is not present.</div> <div>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</div>
Comments	Use Close to close a file or directory that has been opened with PDVFSVolumeManager.Open() .
See Also	PDVFSVolumeManager object. Open() method.

CloseDatabase

Purpose	Closes an open schema database.
Applies to	PSDDatabaseQuery object.
Prototype	<pre>Sub CloseDatabase (<i>PSDDatabaseAdapter</i> As IPSDDatabaseAdapter, [ByVal <i>options</i> As EPSDCloseOptions = ePSDNone], [ByVal <i>bSeenAllChanges</i> As Boolean = False])</pre>
Parameters	<p>→ <i>PSDDatabaseAdapter</i> A PSDDatabaseAdapter object representing the schema database to close.</p> <p>→ <i>options</i> Option flags to indicate whether this method updates the backup and modification dates and whether the desktop has seen all changes. You can specify a combination of the EPSDCloseOptions values.</p> <p>→ <i>bSeenAllChanges</i> If True, this method marks the database as successfully synchronized by this conduit and updates the change context. Note that this change tracking mechanism is specific to a conduit.</p>
Returns	None.
Comments	You must call this method to close a schema database before your conduit finishes. The COM Sync module does this automatically for non-schema databases, but not for schema databases.

Methods

ConfigureConduit

ConfigureConduit

- Purpose** Informs a conduit when the user selects it from HotSync Manager's **Custom** dialog box. HotSync Manager versions earlier than 3.0 call only this method, whereas versions 3.0 and later call the [CfgConduit\(\)](#) method first and then call `ConfigureConduit()` only if the call to `CfgConduit()` is not successful.
- Applies to** [IPDClientNotify](#) interface
- Prototype** Sub **ConfigureConduit** (ByVal *pPathName* as String, ByVal *pRegistry* as String, *nSyncPref* as Long, *nSyncType* as Long)
- Parameters** The Configuration method syntax has these parts:
- *pPathName*
Path to desktop data filename.
 - *pRegistry*
Full path to your conduit configuration entries.
 - ↔ *nSyncPref*
Temporary or permanent change, see [ESyncPref](#) constants.
 - ↔ *nSyncType*
Synchronization type, see [ESyncTypes](#) constants.
- Returns** None.
- Comments** As with [CfgConduit\(\)](#), HotSync Manager calls the `ConfigureConduit()` method when a user decides to configure your conduit by clicking **HotSync Manager > Custom**. Usually a conduit responds by displaying a "Change HotSync Action" dialog box for the user to configure how the conduit performs during the next and all subsequent HotSync operations.
- However, the `ConfigureConduit()` method is an older version of the [CfgConduit\(\)](#) method, which is used for the same purpose but provides different information. Versions of HotSync Manager earlier than 3.0 call the `ConfigureConduit()` method only; newer versions first attempt to call the `CfgConduit()` method, and fall back to calling this method if `CfgConduit()` is not available.

Example

```
Private Sub IPDClientNotify_ConfigureConduit(ByVal pPathName_  
    As String, ByVal pRegistry As String, nSyncPref As_  
    Long, nSyncType As Long)  
  
    On Error GoTo ErrorHandler  
    ' For older Hotsync versions  
    ' Set the SyncType for the configuration form  
  
    gConfigSyncType = nSyncPref  
    frmSetup.Show vbModal  
  
    'Set the SyncType for Hotsync  
    nSyncPref = gConfigSyncType  
  
ErrorHandler:  
    ' Do error handling here  
End Sub
```

See Also

[CfgConduit\(\)](#) method.
[ESyncPref](#), [ESyncTypes](#) constants.

Methods

CopyFileFromDeskTop

CopyFileFromDeskTop

Purpose	Copies a file from the desktop to a volume on a handheld expansion card.
Applies to	PDVFSVolumeManager object.
Prototype	Sub CopyFileFromDeskTop (<i>DeskTopFileName</i> As String, <i>DeviceFileName</i> As String)
Parameters	<div><div>→ <i>DeskTopFileName</i> The full path and filename of the source file on the desktop to copy.</div><div>→ <i>DeviceFileName</i> Full path and filename of the destination file on the handheld. All parts of the path, except the file, must exist. Can also be set to Null (see “Comments” below).</div></div>
Returns	None.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSBadName Invalid filename or path.</div> <div>eVFSDirectoryNotFound The path, excluding filename, does not exist or no default directory is registered for this file type.</div> <div>eVFSDiskFileAccess Failed to create or open the disk file on the desktop.</div> <div>eVFSFileAccessOther Could not access or map the desktop file—for example, because of insufficient memory on the desktop.</div> <div>eVFSFileAlreadyExists A directory with this name exists in this location already.</div> <div>eVFSFileNotFound The file was not found in the specified path.</div>

`eVFSFilePermissionDenied`

Permission denied to perform requested operation—for example, an attempt to write to a read-only file or to read a file already opened in the `eVFSModeExclusive` mode.

`eVFSInvalidOperation`

A file system is not present.

`eVFSNoFileSystem`

None of the file systems installed on the handheld support this operation.

`eVFSNotOpen`

The file system library on the handheld necessary for this call has not been installed or has not been opened.

`eVFSVolumeBadRef`

The volume reference number is invalid.

`eVFSVolumeFull`

There is insufficient space left on the volume.

Comments

The behavior of this method depends on whether a destination path is specified:

- If `DeviceFileName` is specified, all parts of the path, except the filename, must already exist.
 - If the full path exists, this method copies the file to specified location.
 - If the full path does *not* exist, this method fails and returns an error.
- If `DeviceFileName` is `Null`:
 - If a default directory is registered for this file type, this method ensures that the entire path exists—creating the directories leading up to the default directory, if necessary—and puts the file in the default directory.
 - If no default directory is registered for this file type, this method returns `eVFSDirectoryNotFound`.

If the path exists in either of the above cases, this method copies the file specified by `DeskTopFileName` to the destination on the expansion card. If the file already exists at the destination, this method overwrites it with the one specified by `DeskTopFileName`.

See Also [`GetDefaultDirectory\(\)`](#), [`CopyFileToDeskTop\(\)`](#) methods.

Methods

CopyFileToDeskTop

CopyFileToDeskTop

Purpose	Copies a file from a volume on a handheld expansion card to the desktop.
Applies to	PDVFSVolumeManager object.
Prototype	Sub CopyFileToDeskTop (<i>DeviceFileName</i> As String, <i>DeskTopFileName</i> As String)
Parameters	<div>→ <i>DeviceFileName</i> The full path and filename of the source file on the handheld volume to copy.</div> <div>→ <i>DeskTopFileName</i> The full path and filename for the file to be created on the desktop. All parts of the path, except the file, must already exist. If the file does not exist, then this method creates it. If the file exists, then it overwrites the file.</div>
Returns	None.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSDiskFileAccess Failed to create or open the disk file on the desktop.</div> <div>eVFSDiskFull Not enough space on the desktop's disk.</div> <div>eVFSFileAccessOther Could not access or map the desktop file—for example, because of insufficient memory on the desktop.</div> <div>eVFSFileAccessOther Could not access or map the desktop file—for example, because of insufficient memory on the desktop.</div> <div>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</div>

`eVFSFilePermissionDenied`

Permission denied to perform requested operation—for example, an attempt to write to a read-only file or to read a file already opened in the `eVFSModeExclusive` mode.

`eVFSInvalidOperation`

A file system is not present.

`eVFSIsADirectory`

This operation can be performed only on a regular file, not a directory.

`eVFSNoFileSystem`

None of the file systems installed on the handheld support this operation.

`eVFSNotOpen`

The file system library on the handheld necessary for this call has not been installed or has not been opened.

`eVFSVolumeBadRef`

The volume reference number is invalid.

Comments Using this method to copy a file to the desktop is easier than opening the file on the expansion card and reading it into a buffer on the desktop.

See Also [Open\(\)](#), [CopyFileFromDeskTop\(\)](#) methods.

Methods

CreateDatabase

CreateDatabase

- Purpose** Creates a schema database.
- Applies to** [PSDDatabaseQuery](#) object.
- Prototype** Function **CreateDatabase**(ByVal *DatabaseName* As String, ByVal *vCreatorID*, ByVal *vType*, ByVal *Version* As Integer, *PSDTable* As IPSDTable, [ByVal *Flags* As EPSDDatabaseFlags = ePSDSchema]) As IPSDDatabaseAdapter
- Parameters**
- *DatabaseName*
The [database name](#) as a null-terminated string. Do not pass in a null value.
 - *vCreatorID*
Creator ID of the database as a Variant—for example, 'adrs'. See [PSDDatabaseInfo.CreatorID](#).
 - *vType*
The database type as a Variant—for example, 'DATA'. See [PSDDatabaseInfo.Type](#).
 - *Version*
The database version number. See [PSDDatabaseInfo.Version](#).
 - *PSDTable*
A [PSDTable](#) object, which defines a schema. This method creates only one table in the new database. You can add more by calling [AddTable\(\)](#).
 - *Flags*
A combination of one or more [EPSDDatabaseFlags](#) values.
- Returns** A [PSDDatabaseAdapter](#) object that represents the newly created schema database. This method also opens this database for read-write access in exclusive sharing mode with private records shown.

CreateDirectory

Purpose	Creates a directory on this volume on a handheld expansion card.
Applies to	PDVFSVolumeManager object.
Prototype	Sub CreateDirectory (<i>Directory</i> As String)
Parameters	→ <i>Directory</i> The full path of the directory to create.
Returns	None.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSBadName Invalid filename or path.</div> <div>eVFSDirectoryNotFound The full path, not including the new directory name, does not exist.</div> <div>eVFSFileAlreadyExists A directory with this name exists in this location already.</div> <div>eVFSInvalidOperation A file system is not present.</div> <div>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</div> <div>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</div> <div>eVFSVolumeBadRef The volume reference number is invalid because, for example, the volume has not been mounted.</div> <div>eVFSVolumeFull There is insufficient space left on the volume.</div>

Methods

CreateDirectory

Comments All parts of the path except the last component must already exist.

See Also [PDVFSFileManager](#) object.
[Open\(\)](#), [Delete\(\)](#), [Rename\(\)](#), [GetFileList\(\)](#),
[GetSubDirectoryList\(\)](#), [CreateFile\(\)](#) methods.

CreateFile

Purpose	Creates a file on this volume on a handheld expansion card.
Applies to	PDVFSVolumeManager object.
Prototype	Sub CreateFile (<i>FileName</i> As String)
Parameters	<p>→ <i>FileName</i></p> <p>The full path and filename of the file to create. All parts of the path, excluding the filename, must already exist.</p>
Returns	None.
Errors	<p>eCommunications Communications with the handheld has either not been initialized or has been lost.</p> <p>eParamError Parameters were not passed correctly.</p> <p>eVFSBadName Invalid filename or path.</p> <p>eVFSFileAlreadyExists A file with this name exists in this location already.</p> <p>eVFSInvalidOperation A file system is not present.</p> <p>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</p> <p>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</p> <p>eVFSVolumeBadRef The volume reference number is invalid because, for example, the volume has not been mounted.</p> <p>eVFSVolumeFull There is insufficient space left on the volume.</p>
Comments	This method does not open the file. All parts of the path, except the last part must already exist. Any read/write operations that you want to perform on this file require a PDVFSFileManager object, which you create by calling the Open() method.

Methods

CreateFile

It is the responsibility of the file system library on the handheld to ensure that all filenames are translated into a format that is compatible with the native format of the file system, such as the 8.3 convention for a FAT file system without long filename support. See “[Directory Paths](#)” on page 100 in the *COM Sync Suite Companion* for a description of how to construct a valid path.

See Also PDVFSFileManager object.
Open(), Delete(), Rename(), GetFileList(), CreateDirectory()
methods.

CreateRecordDatabase

- Purpose** Creates a new classic or extended record database on the handheld.
- Applies to** [DmDatabaseQuery](#), [PDDatabaseQuery](#) object.
- Prototype** Function **CreateRecordDatabase** (ByVal *pDbName* As String, ByVal *pAdapterName* As String, ByVal *vCreator*, ByVal *vDbType*, [ByVal *eAccessMode* As EAccessModes], [ByVal *EDbFlags* As EDbFlags = eRecord], [ByVal *nVersion* As Long = 1], [ByVal *nCardNum* As Long]) As IUnknown
- Parameters**
- *pDbName*
Name of database to open (case sensitive, 1-31 characters).
 - *pAdapterName*
Full name of the COM Sync database adapter to use. Names are of this form:

LibraryName.AdapterName

Do not include “Lib” in the name—for example, use PDDirect.PDRecordAdapter, not PDDirectLib.PDRecordAdapter.
 - *vCreator*
Creator ID. The unique ID associated with each database and application on the device. Each conduit is associated with a specific creator ID. It is four characters that can be in either Long (VT_I4) or Little Endian form.
 - *vDbType*
Database type. It is four characters that can be in either Long (VT_I4) or Little Endian form. If a BSTR (VT_BSTR), only the first four characters are used.
 - *eAccessMode*
Access mode from [EAccessModes](#) constants.
 - *EDbFlags*
Database flags from the [EDbFlags](#) constants.

Methods

CreateRecordDatabase

→ *nVersion*
Version.

→ *nCardNum*
Card number.

Returns A database adapter object of the type you specify in the *pAdapterName* parameter. Possible returned objects include [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), and [PDToDoDbHHRecordAdapter](#) objects.

Comments The *vCreator* and *vDbType* parameters are Variant. This permits you to enter a String or an unsigned Long of the same value.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
' Create a new database
Set Adapter = DbQuery.CreateRecordDatabase_
    ("New Database", "PDDirect.PDRecordAdapter", "Abcd", _
    "DATA", eRead Or eWrite, eBackupDb, 1, 0)
```

See Also [DmDatabaseQuery](#), [DmRecordAdapter](#), [PDRecordAdapter](#), [PDRecordAdapter](#) objects.
[OpenRecordDatabase\(\)](#) method.
[EDbFlags](#), [EAccessModes](#) constants.

CreateResourceDatabase

Purpose	Creates a new resource database on the handheld.
Applies to	PDDatabaseQuery object.
Prototype	Function CreateResourceDatabase (ByVal <i>pDbName</i> As String, ByVal <i>pAdapterName</i> As String, ByVal <i>vCreator</i> , ByVal <i>vDbType</i> , [ByVal <i>eAccessMode</i> As EAccessModes], [ByVal <i>EDbFlags</i> As EDbFlags = eResource], [ByVal <i>nVersion</i> As Long = 1], [ByVal <i>nCardNum</i> As Long]) as PDResourceAdapter
Parameters	<div><div>→ <i>pDbName</i> Database name (1-31 characters).</div><div>→ <i>pAdapterName</i> ProgID of the database adapter to use.</div><div>→ <i>vCreator</i> Creator ID. The unique ID associated with each database and application on the device. Each conduit is associated with a specific creator ID. It is four characters that can be in either Long (VT_I4) or Little Endian form.</div><div>→ <i>vDbType</i> Database type. It is four characters that can be in either Long (VT_I4) or Little Endian form. If a BSTR (VT_BSTR), only the first four characters are used.</div><div>→ <i>eAccessMode</i> Access mode from EAccessModes constants.</div><div>→ <i>EDbFlags</i> Database flags from the EDbFlags constants.</div><div>→ <i>nVersion</i> Database version.</div><div>→ <i>nCardNum</i> Card number where you are creating the resource database.</div></div>
Returns	A PDResourceAdapter object that represents the resource database.
Comments	The <i>vCreator</i> and <i>vDbType</i> parameters are Variant. This permits you to enter a String or an unsigned Long of the same value.

Methods

CreateResourceDatabase

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDResourceAdapter
' Create a new database
Set Adapter = _
    DbQuery.CreateResourceDatabase("New Application", _
    "PDDirect.PDResourceAdapter", "Abcd", "appl", _
    eRead Or eWrite, eBackupDb, 1, 0)
```

See Also

[PDResourceAdapter](#) object
[EDbFlags](#), [EAccessModes](#) constants

CreatorIDToString

Purpose	Converts a Long conduit creator ID into a String.
Applies to	PDCondMgr , PDSystemCondMgr objects.
Prototype	Function CreatorIDToString (<i>CreatorID</i> As Long) As String
Parameters	→ <i>CreatorID</i> The Long creator ID that you want to convert.
Returns	A creator ID as a String.
Errors	eInvalidID The specified conduit creator ID is not valid. eParamError Parameters were not passed correctly.
Example	<pre>Dim CreatorID As Long Dim strResult As String Const strCreator = "memo" Dim PDcond As New PDCondMgr ' Converted the string value to a Long and back again CreatorID = PDcond.StringToCreatorID(strCreator) strResult = PDcond.CreatorIDToString(CreatorID)</pre>
	Also see the example under RegisterConduit() .
See Also	StringToCreatorID() method

Delete

Purpose	Deletes a closed file or empty directory on this volume on a handheld expansion card.
Applies to	PDVFSVolumeManager object.
Prototype	Sub Delete (<i>Name</i> As String)
Parameters	→ <i>Name</i> The full path of the file or directory to delete.
Returns	None.
Errors	<div><div>eCommunications</div><div>Communications with the handheld has either not been initialized or has been lost.</div></div> <div><div>eParamError</div><div>Parameters were not passed correctly.</div></div> <div><div>eVFSBadName</div><div>Invalid filename or path.</div></div> <div><div>eVFSDirNotEmpty</div><div>The directory is not empty and therefore cannot be deleted.</div></div> <div><div>eVFSFileNotFound</div><div>The file was not found in the specified path.</div></div> <div><div>eVFSFilePermissionDenied</div><div>Permission denied to perform requested operation—for example, an attempt to write to a read-only file or to read a file already opened in the <code>eVFSModeExclusive</code> mode.</div></div> <div><div>eVFSFileStillOpen</div><div>The file is still open—for example, trying to delete an open file.</div></div> <div><div>eVFSInvalidOperation</div><div>A file system is not present.</div></div> <div><div>eVFSNoFileSystem</div><div>None of the file systems installed on the handheld support this operation.</div></div> <div><div>eVFSNotOpen</div><div>The file system library on the handheld necessary for this call has not been installed or has not been opened.</div></div>

eVFSVolumeBadRef

The volume reference number is invalid because, for example, the volume has not been mounted.

Comments A directory must be empty before this method can delete it. A file must be closed before this method can delete it.

See Also [PDVFSFileManager](#) object.
[Close\(\)](#), [GetFileList\(\)](#), [GetSubDirectoryList\(\)](#),
[Rename\(\)](#), [CreateFile\(\)](#), [CreateDirectory\(\)](#) methods.

Methods

DeleteAllRowsInTable

DeleteAllRowsInTable

- Purpose** Marks all rows as deleted in a table in a schema database.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** Sub **DeleteAllRowsInTable** (ByVal *TableName* As String)
- Parameters** → *TableName*
The name of the table from which to delete rows.
- Returns** None.
- Comments** This method does not remove the rows' data; it only sets their Deleted flags.
- See Also** [RemoveRow\(\)](#)

DeleteDatabase

- Purpose** Deletes a schema database and all of its data.
- Applies to** [PSDDatabaseQuery](#) object.
- Prototype** Sub **DeleteDatabase** (ByVal *DatabaseName* As String,
ByVal *vCreatorID*)
- Parameters** → *DatabaseName*
The [database name](#) as a null-terminated string. Do not pass in a null value.
- *vCreatorID*
Creator ID of the database as a Variant—for example, 'adrs'. See [PSDDatabaseInfo.CreatorID](#).
- Returns** None.

Methods

DeleteKey

DeleteKey

Purpose Deletes a key or an entire section from the specified user's area of the users data store.

Applies to [PDUserData](#) object.

Prototype Sub **DeleteKey**(*UserID* As Long, *Section* As String, *Key* as String)

Parameters

- *UserID*
A unique ID to specify the user.
- *Section*
The section name in the specified user's area of the users data store.
- *Key*
The key of the integer to delete. If this is Null, then the entire section is deleted.

Returns None.

Errors

- eInvalidUser
UserID is an invalid number.
- eNoCorePath
No path to find the users data store was found.
- eNoUsers
The users data store exists, but contains no information.
- eOtherUDErr
No users data store was found or another method or program is accessing the user data store.
- eSaveErr
Saving changes was not successfully completed.
- eUDSemaphoreError
Another method or program is accessing the user data store.
- eUDUnableToCreate
Creating a new users data store failed because of a file error.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [AddNewUser\(\)](#) methods

DeleteRow

Purpose	Marks a row as deleted in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Sub DeleteRow (ByVal <i>vRowID</i>)
Parameters	→ <i>vRowID</i> The row ID of the row to delete.
Returns	None.
Comments	This method does not destroy the row's data; it only sets the row's "deleted" flag. Contrast this method with RemoveRow() .

Methods

DeleteRowsInCategory

DeleteRowsInCategory

Purpose	Deletes rows whose category IDs match those on the specified list according to the specified match mode.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub DeleteRowsInCategory (<i>vCategoryIDList</i> , ByVal <i>MatchMode</i> As EPSDMatchMode)
Parameters	<div>→ <i>vCategoryIDList</i> A Variant array of category IDs.</div> <div>→ <i>MatchMode</i> The category match mode that this method uses to match the specified category ID list against rows' category memberships. Specify one of the EPSDMatchMode values.</div>
Returns	None.
Comments	

DeleteUser

Purpose	Deletes a user from the users data store.
Applies to	PDUserData object.
Prototype	Sub DeleteUser (<i>dwUserId</i> As Long)
Parameters	→ <i>dwUserId</i> A unique ID to specify the user to delete.
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eNoCorePath No path to find the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eSaveErr Saving changes was not successfully completed.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div> <div>eUDUnableToCreate Creating a new users data store failed because of a file error.</div>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , AddNewUser() methods

Methods

DeleteUserPermanentSyncPreferences

DeleteUserPermanentSyncPreferences

Purpose	Deletes the permanent synchronization preferences for <i>all</i> of the specified user's conduits.
Applies to	PDUserData object.
Prototype	Sub DeleteUserPermanantSyncPreferences (<i>dwUserId</i> As Long)
Parameters	→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eNoCorePath No path to find the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eSaveErr Saving changes was not successfully completed.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div> <div>eUDUnableToCreate Creating a new users data store failed because of a file error.</div>

Comments This method clears the permanent synchronization preferences for *all* conduits. The result is the same as if the user has never clicked HotSync Manager's **Custom > Change** option and altered any permanent synchronization preferences.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [DeleteUserTemporarySyncPreferences\(\)](#), [RemoveUserTemporarySyncPreferences\(\)](#), [GetUserTemporarySyncPreferences\(\)](#), [SetUserTemporarySyncPreferences\(\)](#), [GetUserPermanentSyncPreferences\(\)](#), [SetUserPermanentSyncPreferences\(\)](#) methods

Methods

DeleteUserTemporarySyncPreferences

DeleteUserTemporarySyncPreferences

Purpose	Deletes the temporary synchronization preferences for <i>all</i> of the specified user's conduits.
Applies to	PDUserData object.
Prototype	Sub DeleteUserTemporarySyncPreferences (<i>dwUserId</i> As Long)
Parameters	→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eNoCorePath No path to find the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eSaveErr Saving changes was not successfully completed.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div> <div>eUDUnableToCreate Creating a new users data store failed because of a file error.</div>

Comments This method clears the temporary synchronization preferences for *all* conduits so that the actions set in the conduits' permanent synchronization preferences will be taken during the next HotSync operation. The result is the same as if the user has never clicked HotSync Manager's **Custom** > **Change** option and altered any temporary synchronization preferences.

NOTE: This method clears *all* conduits' temporary synchronization preferences. Contrast it with [RemoveUserTemporarySyncPreferences\(\)](#), which clears the temporary preferences for only *one* conduit.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [RemoveUserTemporarySyncPreferences\(\)](#), [GetUserTemporarySyncPreferences\(\)](#), [SetUserTemporarySyncPreferences\(\)](#), [DeleteUserPermanentSyncPreferences\(\)](#), [GetUserPermanentSyncPreferences\(\)](#), [SetUserPermanentSyncPreferences\(\)](#) methods

Methods

DisplayLog

DisplayLog

Purpose	Displays the HotSync Log dialog box of the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub DisplayLog (<i>dwUserId</i> As Long)
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user whose log you want to display. If this value is 0, the current user's log is displayed.</div>
Returns	None.
Errors	<div>eHotSyncNotFound HotSync Manager is not running.</div>
Comments	This method displays the HotSync Log dialog box, which enables the user to view log entries written to it during previous HotSync operations.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , AddLogEntry() methods

DWORDToBSTR

Purpose Converts an unsigned Long to a four-character String. Used for creator IDs, database type, and others.

Applies to [PDUtility](#) object.

Prototype Function **DWORDToBSTR**(*nDWordVal* As Long, [*bSwap* As Boolean = True]) As String

Parameters → *nDWordVal*
Unsigned Long to convert.
→ *bSwap*
If True, this method swaps the bytes in *nDWordVal* before returning the String value.

Returns The unsigned Long value expressed as a four-character String.

Example

```
Dim Utility As New PDUtility
Dim Value as String
Dim dwVal as Long
' Convert the string
dwVal = &H6d656d6f          'memo creator ID
Value = Utility.DWORDToBSTR(dwVal, True)
```

See Also [BSTRToDWORD\(\)](#) method.

Methods

DWORDToByteArray

DWORDToByteArray

Purpose	Inserts an unsigned Long into a Byte array.
Applies to	PDUtility object.
Prototype	Function DWORDToByteArray (<i>pvData</i> as Variant, <i>nOffset</i> As Long, <i>bSwap</i> As Boolean, <i>nDWordVal</i> As Long) As Long
Parameters	<div><div>↔ <i>pvData</i> Byte array used for insertion.</div><div>→ <i>nOffset</i> Offset location where the unsigned Long is inserted.</div><div>→ <i>bSwap</i> If True, the method swaps the bytes before inserting them.</div><div>→ <i>nDWordVal</i> Unsigned Long to insert.</div></div>
Returns	The next offset in the Byte array.

Example

```
Dim barray(7) As Byte
Dim Vdata As Variant
Dim ToPos As Long
Dim Backpos As Long
Dim Result As Long
Dim putil As New PDUtility
Dim i As Integer
Dim strDisplay As String

' Init the variant
Vdata = barray

' DWord so 4 bytes
barray(0) = Asc("H")
barray(1) = Asc("e")
barray(2) = Asc("l")
barray(3) = Asc("l")

barray(4) = Asc("o")
barray(5) = Asc(" ")
barray(6) = Asc("!")
barray(7) = Asc("!")
```

```
While ToPos < UBound(barray) - 1
    ToPos = putil.ByteArrayToDWORD(barray, ToPos, False, _
        Result)
    ' Convert Back
    Backpos = putil.DWORDToByteArray(Vdata, Backpos, _
        False, Result)
Wend

For i = 0 To UBound(barray)
    strDisplay = strDisplay & Chr(Vdata(i))
Next i

MsgBox strDisplay

MsgBox "StrConv --> " & StrConv(Vdata, vbUnicode)
```

Methods

ExportDatabaseToFile

ExportDatabaseToFile

Purpose Flattens and exports the specified database on the handheld to the specified PDB or PRC file on an expansion card. Works only with classic databases.

Applies to [PDVFSVolumeManager](#) object.

Prototype Sub **ExportDatabaseToFile**(*PathName* As String,
CardNumber As Long, *DBName* As String)

Parameters

- *PathName*
The full path and filename of the destination file to create. All parts of the path, excluding the filename, must already exist.
- *CardNumber*
The RAM card number in the handheld on which the database exists. Note that this does not refer to the expansion card and is therefore not related to the slot reference number. The card number for the first RAM memory card on the handheld is 0, which is the only one that most handhelds have.
- *DBName*
The name of the source database to export to a file on the expansion card.

Returns None.

Errors

- eCommunications
Communications with the handheld has either not been initialized or has been lost.
- eParamError
Parameters were not passed correctly.
- eVFSBadName
Invalid filename or path.
- eVFSFileAlreadyExists
A file with this name exists in this location already.
- eVFSInvalidOperation
A file system is not present.

Comments This utility method exports a database from primary storage memory on a handheld to a PDB or PRC file on an expansion card. This method is the opposite of [ImportDatabaseFromFile\(\)](#). Use this method, for example, to copy applications from primary storage to an expansion card.

IMPORTANT: This method works only with classic databases. It cannot export schema or extended databases.

See Also [Write\(\)](#), [ImportDatabaseFromFile\(\)](#) methods.

Methods

Format

Format

Purpose	Formats and mounts this volume.
Applies to	PDVFSVolumeManager object.
Prototype	Sub Format (<i>mountClass</i> As Long)
Parameters	<p>→ <i>mountClass</i></p> <p>This parameter is used when mounting the volume after it has been formatted. For possible values to use, see “VFS Volume Mount Class Constants” on page 577. You can pass in the same value as returned by this volume’s mountClass property.</p>
Returns	None.
Errors	<p>eVFSInvalidOperation A file system is not present.</p> <p>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</p> <p>eVFSNotEnoughPower Insufficient battery power on the handheld to perform the operation.</p> <p>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</p> <p>eVFSVolumeStillMounted The volume is still mounted, but this method formats it anyway.</p>

Comments This method can only reformat an already formatted expansion card; it cannot format an unformatted card. This method attempts to find a compatible file system library on the handheld to format and then to remount the volume if the format succeeds. (The handheld slot driver provided by PalmSource, Inc. currently supports only one volume per slot.) In the process, the VFS Manager assigns a new volume reference number to this volume. Despite the change in its volume reference number, you can continue to use the same [PDVFSVolumeManager](#) object from which you formatted the volume.

See Also [GetVolumeManager\(\)](#) method.

Methods

GenerateBackupFileName

GenerateBackupFileName

- Purpose** Generates the unique backup filename of a database specified by its name, creator, type, and attributes.
- Applies to** [PSDDatabaseQuery](#), [PSDDatabaseUtilities](#) objects.
- Prototype** Function **GenerateBackupFileName**(ByVal vCreatorID, ByVal DatabaseName As String, ByVal Attributes As Long, ByVal vType) As String
- Parameters**
- *vCreatorID*
Creator ID of the database. See [PSDDatabaseInfo.CreatorID](#).
 - *DatabaseName*
The [database name](#) as a null-terminated string. Do not pass in a null value. See [PSDDatabaseInfo.Name](#).
 - *Attributes*
The attributes of this database. Specify a combination of one or more of the [EPSDDatabaseFlags](#) and [EDbFlags](#) values. See [PSDDatabaseInfo.Attributes](#).
 - *vType*
The database type. See [PSDDatabaseInfo.Type](#).
- Returns** The generated backup filename.
- Comments** Versions of Palm OS *earlier than Palm OS Cobalt* uniquely identify databases by name only. Therefore, in versions of HotSync Manager *earlier than 6.0*, the default Backup conduit creates backup filenames that consist of only the database name with an extension that depends on the database attributes (PRC for classic resource databases and PDB for classic record databases). The case of database names is incorrectly ignored in backup filenames.
- However, Palm OS Cobalt uniquely identifies schema and extended databases by *name and creator ID*. Therefore the Backup conduit that ships with HotSync Manager 6.0 and later generates backup filenames for all databases based on both their name and creator ID. This method generates such filenames.
- This method generates standard backup filenames that a conduit can pass into the [BackupDatabase\(\)](#) to create an image file on the desktop of a database on the handheld—though, you do not have to call this method before `BackupDatabase()`, because it can

generate the filename itself. Another use for this method is to determine whether a database has a backup image on the desktop already—that is, whether it has been backed up.

This method generates filenames with extensions based on the database attributes and type as shown in [Table 4.5](#).

Table 4.5 Backup filename extensions

Extension	Database description
PRC	Classic resource databases
PDB	Classic or extended record databases
SDB	Schema databases (nonsecure)
SSD	Secure schema databases
VLT	Security vault databases

The Sync Manager uses a name-mangling scheme to prevent collisions between Palm OS database names, which are case-sensitive, and Windows filenames, which are case-insensitive.

Methods

GetAllQueuedHHFiles

GetAllQueuedHHFiles

Purpose	Retrieves a list of all the files queued to be installed in the handheld's main memory for the specified user.
Applies to	PDInstall object.
Prototype	Function GetAllQueuedHHFiles (<i>UserID</i> As Long) As Variant
Parameters	→ <i>UserID</i> A unique ID to specify the user you want to reference.
Returns	A list of filenames as an array of string values.
Errors	eInvalidUser UserID is an invalid number. eParamError Parameters were not passed correctly.
Comments	This method builds a list of all the files in the specified user's handheld-install directory. See " Installing Files on the Handheld with PDInstall " on page 58 in the <i>COM Sync Suite Companion</i> .
Example	<pre>Dim PInstall As New PDInstall Dim UserData As New PDUserData Dim UserId As Long Dim HHQueueList As Variant ' Retrieve the user ID from the HotSync Manager user name. UserId = UserData.GetIDFromName("Palm OS Emulator") Call PInstall.InstallFileToHH(UserId, "c:\temp\MyApp.prc") HHQueueList = PInstall.GetAllQueuedHHFiles(UserId)</pre>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetAllQueuedHHFilesOfType() , GetAllQueuedSlotFiles() , InstallFileToHH() , InstallFileToSlot() methods

GetAllQueuedHHFilesOfType

Purpose	Retrieves a list of all the files of the specified <i>type</i> that are queued to be installed in the handheld's main memory for the specified user.
Applies to	PDInstall object.
Prototype	Function GetAllQueuedHHFilesOfType (<i>UserID</i> As Long, <i>Extension</i> As String) As Variant
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>Extension</i> A string ("<i>*.extension</i>") specifying the filename extension to search for—for example, "<i>*.prc</i>", "<i>*.pdb</i>", or "<i>*.pnc</i>".</div>
Returns	A list of filenames as an array of String values.
Errors	<div>eInvalidUser UserID is an invalid number.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method builds a list of all the files in the specified user's handheld-install directory. See " Installing Files on the Handheld with PDInstall " on page 58 in the <i>COM Sync Suite Companion</i> .
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetAllQueuedHHFiles() , GetAllQueuedSlotFiles() , InstallFileToHH() , InstallFileToSlot() methods

Methods

GetAllQueuedSlotFiles

GetAllQueuedSlotFiles

Purpose	Retrieves a list of all the files queued to be installed to the handheld's specified expansion slot for a given user.
Applies to	PDInstall object.
Prototype	Function GetAllQueuedSlotFiles (<i>UserID</i> As Long, <i>SlotID</i> As Long) As Variant
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>SlotID</i> The ID of the slot for which to get a list of queued files. To get slot IDs, use PDUserData's GetSlotList() method.</div>
Returns	A list of filenames as an array of String values.
Errors	<div>eInvalidUser UserID is an invalid number.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method builds a list of all the files in the specified user's slot-install directory. This directory holds all the files that will be installed on the specified expansion slot on the handheld during the next HotSync operation. See " Installing Files on the Handheld with PDInstall " on page 58 in the <i>COM Sync Suite Companion</i> .

Example

```
Dim PInstall As New PDInstall
Dim UserData As New PDUserData
Dim UserId As Long
Dim SlotQueueList As Variant

' Retrieve the user ID from the HotSync Manager user name.
UserId = UserData.GetIDFromName("Palm OS Emulator")

Call PInstall.InstallFileToSlot(UserId, 0, _
    "c:\temp\MyApp.prc")
SlotQueueList = PInstall.GetAllQueuedSlotFiles(UserId, 0)
```

See Also

[GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#),
[GetSlotList\(\)](#), [GetAllQueuedHHFilesOfType\(\)](#),
[GetAllQueuedHHFiles\(\)](#), [InstallFileToHH\(\)](#),
[InstallFileToSlot\(\)](#) methods

Methods

GetBackupConduit

GetBackupConduit

Purpose	Retrieves the name of HotSync Manager's backup conduit .
Applies to	PDCondMgr , PDSystemCondMgr objects.
Prototype	Function GetBackupConduit () As String
Parameters	None.
Returns	The filename of the backup conduit as a String.
Errors	<div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Comments	This method retrieves the value of the HotSync Manager\BackupConduit configuration entry used by HotSync Manager for the current Windows user or for the system, depending on whether this method is called for a PDCondMgr or a PDSystemCondMgr object.
Example	<pre>Dim PDcond As New PDCondMgr Dim strBackupConduit As String strBackupConduit = PDcond.GetBackupConduit</pre>
See Also	SetBackupConduit () method

GetCardInfo

Purpose	Retrieves information about an expansion card in a given slot.
Applies to	PDExpansionManager object.
Prototype	Function GetCardInfo (<i>slotNum</i> As Long) As Unknown
Parameters	<div>→ <i>slotNum</i> The slot reference number of the slot to retrieve information about. Call GetSlotReferenceNumbers() to get these values.</div>
Returns	A PDExpansionCardInfo object.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eVFSCardNotPresent No card is present in the given slot.</div> <div>eVFSInvalidSlotNumber The slot reference number is not valid.</div> <div>eVFSSectorReadWrite The card does not support the slot driver block read/write API.</div> <div>eVFSSlotDeallocated The slot reference number is within the valid range, but the Expansion Manager has unloaded the slot driver on the handheld.</div> <div>eVFSUnsupportedOperation Either virtual file systems are not supported on the handheld or the handheld does not have an expansion slot.</div>
Comments	This method returns information about an expansion card, including whether the card supports secondary storage or is strictly read-only, by filling in the properties of a PDExpansionCardInfo object.
See Also	PDExpansionCardInfo object. GetSlotReferenceNumbers() , IsExpansionSlotPresent() methods.

Methods

GetCategoryAdapter

GetCategoryAdapter

- Purpose** Returns a category adapter object for a schema database.
- Applies to** [PSDDatabaseAdapter](#) object.
- Prototype** Function **GetCategoryAdapter** () As
IPSDCategoryAdapter
- Parameters** None.
- Returns** A [PSDCategoryAdapter](#) object.

GetCategoryCount

- Purpose** Retrieves the number of categories to which this row belongs.
- Applies to** [PSDRowData](#) object.
- Prototype** Function **GetCategoryCount** () As Long
- Parameters** None.
- Returns** A count of this row's category memberships.

Methods

GetCategoryMembership

GetCategoryMembership

Purpose	Retrieves a row's category memberships in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Function GetCategoryMembership (ByVal <i>vRowID</i>) As Variant
Parameters	→ <i>vRowID</i> The row ID of the row to get category memberships of.
Returns	A Variant array of category IDs that represent the categories that this row is a member of.
Comments	

GetChangeContext

Purpose	Retrieves the change context for a schema database from the handheld.
Applies to	PSDDatabaseQuery object.
Prototype	Function GetChangeContext (ByVal <i>DatabaseName</i> As String, ByVal <i>vCreatorID</i> , ByVal <i>vType</i>) As Variant
Parameters	<div>→ <i>DatabaseName</i> The database name as a null-terminated string. Do not pass in a null value. See PSDDatabaseInfo.Name.</div> <div>→ <i>vCreatorID</i> Creator ID of the database. See PSDDatabaseInfo.CreatorID.</div> <div>→ <i>vType</i> The database type. See PSDDatabaseInfo.Type.</div>
Returns	A Variant array of bytes that represents the change context for the specified schema database.
Comments	The Sync Manager stores the change context per user, conduit, and schema database and retrieves it automatically to determine the type of synchronization operation. Therefore most conduits do not need to store the change context themselves, but instead can rely on the Sync Manager to handle it. However, in some special cases a conduit might need to store the change context itself. For example, if the data source that the conduit synchronizes with resides in a central location, and the user synchronizes from multiple desktops with the same central data source using the same conduit, the conduit can store this change context in the same central location. Then during subsequent HotSync operations from different desktops, the conduit can retrieve the change context and pass it to the Sync Manager via GetSyncTypeInfo() to determine the synchronization mode that the conduit should use. After comparing the change contexts, the Sync Manager might indicate a fast sync is possible when it would not have been possible otherwise.

Methods

GetChangeContext

NOTE: A conduit must call this method *after* closing the database, but only if it needs to store a database's change context itself. Most conduits do not.

Compatibility Palm OS version: Palm OS Cobalt, version 6.0 or later.

See Also [GetSyncTypeInfo\(\)](#) method

GetColumnCount

Purpose	Retrieves the number of columns in this table.
Applies to	PSDTable object.
Prototype	Function GetColumnCount () As Long
Parameters	None.
Returns	A count of this table's columns.

Methods

GetColumnCustomProperty

GetColumnCustomProperty

Purpose	Retrieves the value of a custom column property in a table.
Applies to	PSDDatabaseAdapter object.
Prototype	Function GetColumnCustomProperty (ByVal <i>TableName</i> As String, ByVal <i>ColumnID</i> As Long, ByVal <i>PropertyID</i> As Integer) As Variant
Parameters	<div>→ <i>TableName</i> The name of the table.</div> <div>→ <i>ColumnID</i> The column ID of the column.</div> <div>→ <i>PropertyID</i> The property ID of the custom column property. Valid values range from 0x05 to 0x0A.</div>
Returns	A byte array containing the value of the specified custom column property.

GetColumnIDList

Purpose	Retrieves the column IDs of all columns in this table.
Applies to	PSDTable object.
Prototype	Function GetColumnIDList () As Variant
Parameters	None.
Returns	A Variant array of column IDs.

Methods

GetColumnInfoByID

GetColumnInfoByID

Purpose	Retrieves a column definition from this table given a column ID.
Applies to	PSDTable object.
Prototype	Function GetColumnInfoByID (ByVal <i>ColumnID</i> As Long) As IPSDColumnInfo
Parameters	→ <i>ColumnID</i> A column ID to retrieve the column definition of.
Returns	A PSDColumnInfo object that represents the specified column definition.

GetColumnInfoByName

Purpose	Retrieves a column definition from this table given a column name.
Applies to	PSDTable object.
Prototype	Function GetColumnInfoByName (ByVal <i>ColumnName</i> As String) As IPSDColumnInfo
Parameters	→ <i>ColumnName</i> The name of a column to retrieve the column definition of.
Returns	A PSDColumnInfo object that represents the specified column definition.

Methods

GetColumnNames

GetColumnNames

- Purpose** Retrieves a list of all the column names in this table.
- Applies to** [PSDTable](#) object.
- Prototype** Function **GetColumnNames**(*vNames*) As Long
- Parameters** \leftarrow *vNames*
A Variant array of column names.
- Returns** The number of column names passed back in *Names*.

GetColumnsWithData

Purpose	Retrieves a list of names of the columns in this row that contain data.
Applies to	PSDRowData object.
Prototype	Function GetColumnsWithData (<i>ColumnNames</i>) As Long
Parameters	<div>← <i>ColumnNames</i> A Variant array of column names. These are the columns that contain data.</div>
Returns	The number of column names passed back in <i>ColumnNames</i> .

Methods

GetCommStatus

GetCommStatus

Purpose	Retrieves the status of the HotSync Manager application's communication types.
Applies to	PDHotSyncUtility object.
Prototype	Function GetCommStatus (<i>type</i> As EPDHSConnectionType) As EPDHSConnectionStatus
Parameters	<div>→ <i>type</i> The communication type of which to retrieve the status. Use one of the values defined by the EPDHSConnectionType constant.</div>
Returns	The status of the specified communication type as a value of the EPDHSConnectionStatus constant.
Errors	<div>eInvalidConnType The specified HotSync Manager connection type is not one defined by the EPDHSConnectionType constant.</div>
See Also	<div>SetCommStatus() method. EPDHSConnectionType constant.</div>

GetConduitCount

Purpose	Returns the number of conduits that are registered with HotSync Manager for the current Windows user or for the system.
Applies to	PDCondMgr , PDSysCondMgr objects.
Prototype	Function GetConduitCount () As Long
Parameters	None.
Returns	The total number of conduits.
Errors	eParamError Parameters were not passed correctly.
Comments	The returned count includes all conduits that are registered for either the current Windows user or the system, depending on whether it is called for a PDCondMgr or a PDSysCondMgr object. This count includes conduits registered by placement in the user's Conduits folder (folder-registered, C API-based conduits) and those registered by configuration entries (conventionally registered). This count does not include backup or install conduits, nor does it include system-registered conduits.
Example	<pre>Dim ConduitCount As Long Dim PCondMgr As New PDCondMgr ConduitCount = PCondMgr.GetConduitCount()</pre>
See Also	GetConduitList() method

Methods

GetConduitInfo

GetConduitInfo

Purpose	Returns complete information about a conduit in a PDConduitInfo object.
Applies to	PDCondMgr , PDSysCondMgr objects.
Prototype	Function GetConduitInfo (<i>CreatorID</i> As Long) As Unknown
Parameters	→ <i>CreatorID</i> The creator ID of the conduit you want information about.
Returns	A PDConduitInfo object.
Errors	<div>eInvalidID The specified conduit creator ID is not valid.</div> <div>eLocalMemory Not enough memory on the desktop to perform the requested operation.</div> <div>eNoSuchConduit The specified conduit does not exist.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Comments	If this method succeeds in finding a registered conduit with a matching creator ID, it returns a PDConduitInfo object.
Example	See the example under RegisterConduit() .
See Also	PDConduitInfo object. StringToCreatorID() , RegisterConduit() , GetConduitList() methods.

GetConduitInfo

Purpose	Returns information about the conduit (including name and version) when requested by HotSync Manager.
Applies to	IPDClientNotify interface
Prototype	Function GetConduitInfo (<i>infoType</i> As EGetConduitInfo, <i>dwCreatorId</i> As Long, <i>dwUserId</i> As Long, <i>bstrUserName</i> As String)
Parameters	<div><div>→ <i>infoType</i> Describes the type of information being requested as one of the EGetConduitInfo values.</div><div>→ <i>dwCreatorId</i> Specifies the creator ID.</div><div>→ <i>dwUserId</i> Specifies the user ID.</div><div>→ <i>bstrUsername</i> Specifies the handheld user name.</div></div>
Returns	The data specified by the <i>infoType</i> parameter.
Comments	HotSync Manager calls <code>GetConduitInfo()</code> to retrieve information about your conduit. Your implementation of this entry point must respond differently for each EGetConduitInfo value passed in the <i>infoType</i> parameter. Table 4.6 lists these values and how your conduit should respond.

Methods

GetConduitInfo

Table 4.6 GetConduitInfo() requests and conduit responses

If the EGetConduitInfo value passed in <i>infoType</i> is...	Then return...
Constant eGetConduitName = 0	the display name of your conduit.
Constant eGetMfcVersion = 1	an EMfcVersion enum value.
Constant eGetDefaultAction = 2	an ESyncTypes enum value.
Constant eGetConduitVersion = 3	the version number of your conduit.
Constant ePDDoNotDisplayInConduitListForUser = 4	0, if your conduit should be displayed in the Custom dialog box. Return a nonzero value if it should not be displayed.
Constant ePDRunAlways = 5	EPDRunOptions .ePDRunOnlyWhenAppExists, if your conduit should be run only if a matching application is on the handheld. Return a value of EPDRunOptions .ePDRunConduitAlways if your conduit should always be run.
Constant ePDDoNotDisplayProgress = 6	0, if your conduit should be displayed in the HotSync Progress dialog box. Return a nonzero value if it should not be displayed.

Example

```
Private Function IPDClientNotify_GetConduitInfo(_  
    ByVal infoType As PDDirectLib.EGetConduitInfo, _  
    ByVal dwCreatorId As Long, ByVal dwUserId As Long, _  
    ByVal bstrUserName As String) As Variant  
  
    If infoType = eGetConduitName Then  
        IPDClientNotify_GetConduitInfo = "SimpleDbExe"  
    End If  
  
    If infoType = eGetDefaultAction Then  
        IPDClientNotify_GetConduitInfo = PDDirectLib.eFast  
    End If
```

```
If infoType = eGetMfcVersion Then
    IPDClientNotify_GetConduitInfo = _
        PDDirectLib.ePDMFC_NOT_USED
End If

If infoType = eGetConduitVersion Then
    IPDClientNotify_GetConduitInfo = 1#
End If

' Run this conduit even if there is no application on the
' device with the corresponding creator ID.
' Removes the requirement that the creator ID for which
' the conduit is registered be present on the device for
' the conduit to run. The default behavior is to run your
' conduit always, even when an application with the same
' creator ID (as the one you registered your conduit with)
' does not exist on the device. If you do not want your
' conduit to run when the application is not present on
' device, then return ePDRunOnlyWhenAppExists.

If infoType = ePDRunAlways Then
    IPDClientNotify_GetConduitInfo = _
        EPDRunOptions.ePDRunConduitAlways
End If

' Do not opt out of display in HotSync Manager Custom
' dialog box.
If infoType = ePDDoNotDisplayInConduitListForUser Then
    IPDClientNotify_GetConduitInfo = False
End If

' Do not opt out of display in the HotSync Progress
' dialog box.
If infoType = ePDDoNotDisplayProgress Then
    IPDClientNotify_GetConduitInfo = False
End If

End Function
```

Methods

GetConduitInfo

Compatibility ***HotSync Manager Versions 6.0 and Later***

These versions can pass in only these values in the *infoType* parameter:

- `eGetConduitName`
- `eGetDefaultAction`
- `ePDDoNotDisplayInConduitListForUser`
- `ePDRunAlways`
- `ePDDoNotDisplayProgress`

If a conduit does not handle the case when *infoType* = `ePDRunAlways`, then versions 6.0 and later of HotSync Manager run the conduit regardless of whether an application with the same creator ID is on the handheld.

HotSync Manager versions 6.0 and later do not need to check a conduit's MFC version, so they never pass in the `eGetMfcVersion` value via the *infoType* parameter.

HotSync Manager Versions Earlier than 6.0

These versions can pass in only these values in the *infoType* parameter:

- `eGetConduitName`
- `eGetMfcVersion`
- `eGetDefaultAction`

Versions of HotSync Manager earlier than 6.0 run the conduit only if an application with the same creator ID is on the handheld. These versions do not enable a conduit to opt out of this requirement.

If your conduit must work with HotSync Manager versions earlier than 6.0, your implementation of `GetConduitInfo()` must return the appropriate MFC version constant. If you are recompiling a conduit you created with an older version of the CDK and did not originally implement `GetConduitInfo()`, HotSync Manager assumes that your conduit is built on MFC 4.1. If it is not, HotSync Manager crashes when it calls your conduit.

GetConduitList

Purpose	Returns a list of creator IDs of all the conduits registered for either the current Windows user or the system.
Applies to	PDCondMgr , PDSysCondmgr objects.
Prototype	Function GetConduitList () as Variant
Parameters	None.
Returns	A list of creator IDs as an array of Long values.
Errors	<div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Comments	This method returns information about conduits that are registered for the current Windows user or the system, depending on whether it is called for a PDCondMgr or a PDSysCondmgr object.
Example	<pre>Dim ConduitList As Variant Dim PCondMgr As New PDCondMgr ConduitList = PCondMgr.GetConduitList ' Check whether the returned array contained entries. ' If it's not empty, return the string CreatorID of the first ' conduit. If Not IsEmpty(ConduitList) Then MsgBox "The first CreatorID is '" & _ PCondMgr.CreatorIDToString(ConduitList(0)) & "', _ vbInformation End If</pre>
See Also	CreatorIDToString() , GetConduitInfo() methods

Methods

GetCount

GetCount

Purpose	Retrieves the number of categories in a schema database.
Applies to	PSDCategoryAdapter object.
Prototype	Function GetCount () As Long
Parameters	None.
Returns	The category count.

GetCurrentRowID

- Purpose** Retrieves the current row ID in this set of rows.
- Applies to** [PSDRowSet](#) object.
- Prototype** Function **GetCurrentRowID**() As Variant
- Parameters** None.
- Returns** The row ID of the row in this set that the cursor points to.

Methods

GetDatabaseHandle

GetDatabaseHandle

Purpose	Returns the handle of this open schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Function GetDatabaseHandle () As Byte
Parameters	None.
Returns	The handle of this open schema database.
Comments	This method is provided for testing purposes, so you probably do not need to use it. It returns the handle that the underlying C API uses to address this open schema database. No COM Sync methods require that you use this handle, though.

GetDatabaseInfo

Purpose	Retrieves information about this schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Function GetDatabaseInfo() As IPSSDatabaseInfo
Parameters	None.
Returns	A PSDDatabaseInfo object.

Methods

GetDataSize

GetDataSize

Purpose	Retrieves the size of a column value in this row.
Applies to	PSDRowData object.
Prototype	Function GetDataSize (ByVal <i>ColumnName</i> As String) As Long
Parameters	→ <i>ColumnName</i> The name of a column in this row.
Returns	The size of the specified column value in bytes.
Comments	This method is useful for getting the size of variable-length data types such as strings.

GetDataType

Purpose	Retrieves the data type of a column in this row.
Applies to	PSDRowData object.
Prototype	Function GetDataType (ByVal <i>ColumnName</i> As String) As EPSDColumnType
Parameters	→ <i>ColumnName</i> The name of a column in this row.
Returns	One of the EPSDColumnType values that specifies the data type of data in this column.

Methods

GetDefaultDirectory

GetDefaultDirectory

Purpose	Retrieves the default directory on this volume on an expansion card for files of the specified type.
Applies to	PDVFSVolumeManager object.
Prototype	Function GetDefaultDirectory (<i>FileType</i> As String) As String
Parameters	→ <i>FileType</i> The file type may either be a MIME media type/subtype pair, such as “image/jpeg”, “text/plain”, or “audio/basic”; or a file extension, such as “.jpeg”. If you pass in a file extension, it must begin with a period ‘.’—for example “.prc”.
Returns	The path of the default directory for the requested file type.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSBadName Invalid filename or path.</div> <div>eVFSFileNotFound The file was not found in the specified path.</div> <div>eVFSInvalidOperation A file system is not present.</div>

Comments This method returns the full path to the default directory registered for the specified file type. A default directory can be registered for each type of media supported. The directory should be registered under media and file type. (Note that this directory is typically a “root” directory for the file type; any subdirectories under this root directory should also be searched for files of the appropriate type.) If this method finds no match for either the specified media type for this volume or the requested file type, it returns `eVFSFileNotFound`.

This method can be used by an image viewer application, for example, to find the directory containing images without having to know what type of media the volume was on. This could be “/DCIM”, “/images”, or something else depending on the type of media.

For more information, see “[Determining the Default Directory for a Particular File Type](#)” on page 102 in the *COM Sync Suite Companion*.

See Also [GetFileList\(\)](#), [GetSubDirectoryList\(\)](#) methods.

Methods

GetDesktopTrustStatus

GetDesktopTrustStatus

- Purpose** Determines whether the HotSync operation in progress is with a trusted desktop.
- Applies to** [PSDDatabaseQuery](#), [PSDDatabaseQuery](#) objects.
- Prototype** Function **GetDesktopTrustStatus** () As
EPSSDesktopTrustStatus
- Parameters** None.
- Returns** A [EPSSDesktopTrustStatus](#) value.
- Comments** Call this method only during a HotSync operation, because the Sync Manager must retrieve the desktop trust status from the handheld.

This method passes back ePSDDesktopTrustNotVerified, if it is called after the Sync Manager connects to the handheld but before the Sync Manager performs authentication.

GetDWORDData

Purpose	Retrieves a DWORD configuration entry value for the specified conduit.
Applies to	PDCondMgr , PDInstallConduit , PDSysCondmgr objects.
Prototype	PDCondMgr and PDSysCondmgr : Function GetDWORDData (<i>CreatorID</i> As Long, <i>Name</i> As String) As Long PDInstallConduit : Function GetDWORDData (<i>UniqueId</i> As Long, <i>Name</i> As String) As Long
Parameters	<div>→ <i>CreatorID</i> If a PDCondMgr or PDSysCondmgr object, this parameter is the creator ID of the conduit you want a value for.</div> <div>→ <i>UniqueId</i> If a PDInstallConduit object, this parameter is the unique ID of the install conduit you want a value for.</div> <div>→ <i>Name</i> The name of the DWORD configuration entry you want the value of.</div>
Returns	The value of the specified DWORD configuration entry.
Errors	<div>eInvalidID The specified conduit creator ID is not valid.</div> <div>eNoSuchConduit The specified install conduit does not exist.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div> <div>eValueNotFound The specified value could not be found in the configuration entries for this conduit.</div>

Methods

GetDWORDData

Comments This is a general purpose method for retrieving a conduit configuration entry value by name. If the conduit you want is a standard synchronization conduit (most are), specify the creator ID in the first parameter. If the conduit you want is an [install conduit](#), specify the unique ID in the first parameter.

This method returns information about a conduit that is registered either for the current Windows user or the system, depending on whether it is called for a [PDCondMgr](#) or a [PDSystemCondMgr](#) object.

Example

```
Dim ExtraInfo As Long
Dim CreatorId As Long
Dim PCondMgr As New PDCondMgr

' Set the value for a custom field called "ExtraInfo"
' to 10.
CreatorId = PCondMgr.StringToCreatorID("memo")

Call PCondMgr.SetDWORDData(CreatorId, "ExtraInfo", 10)
ExtraInfo = PCondMgr.GetDWORDData(CreatorId, "ExtraInfo")
```

See Also [SetDWORDData\(\)](#) method

GetExceptionDates

- Purpose** Retrieves a list of dates that are exceptions to a Date Book repeating event.
- Applies to** [PDDateBookDbHHRecord2](#) object.
- Prototype** Function **GetExceptionDates**() As Variant
- Parameters** None.
- Returns** A Variant array of values of type Date. These are the dates on which a repeating Date Book event does not occur.
- See Also** [SetExceptionDates\(\)](#) method.

Methods

GetFileList

GetFileList

Purpose	Retrieves the names of all the files in a given directory.
Applies to	PDVFSVolumeManager object.
Prototype	Function GetFileList (<i>Directory</i> As String, <i>FileList</i> As Variant) As Long
Parameters	<div><div>→ <i>Directory</i> The full path of the directory to retrieve the file list from.</div><div>← <i>FileList</i> A list of all the files in the specified directory, passed back as an array of String values represented as a Variant.</div></div>
Returns	The number of filenames passed back in <i>FileList</i> .
Errors	<div><div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div><div>eParamError Parameters were not passed correctly.</div><div>eVFSBadName Invalid path.</div><div>eVFSEnumerationEmpty No volumes are present to enumerate or none remain to enumerate.</div><div>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</div><div>eVFSInvalidOperation A file system is not present.</div><div>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</div><div>eVFSNotADirectory This operation can be performed only on a directory.</div><div>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</div></div>

eVFSVolumeBadRef

The volume reference number is invalid because, for example, the volume has not been mounted.

Comments This method retrieves only filenames. Use [GetSubDirectoryList\(\)](#) to retrieve subdirectory names.

See Also [GetSubDirectoryList\(\)](#), [Open\(\)](#) methods.

Methods

GetHHFileSize

GetHHFileSize

Purpose	Retrieves the size of the specified file that is queued to be installed to the handheld's main memory for a given user.
Applies to	PDInstall object.
Prototype	Function GetHHFileSize (<i>UserID</i> As Long, <i>FileName</i> As String) As Long
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>FileName</i> The name of the file to get the size of (filename only, not a path).</div>
Returns	The size of the specified file in bytes.
Errors	<div>eInvalidUser UserID is an invalid number.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method returns the size of a file in the specified user's handheld-install directory. See " Installing Files on the Handheld with PDInstall " on page 58 in the <i>COM Sync Suite Companion</i> .
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetAllQueuedHHFiles() , GetAllQueuedHHFilesOfType() methods

GetIDFromName

Purpose	Retrieves a unique user ID given the user's name.
Applies to	PDUserData object.
Prototype	Function GetIDFromName (UserName As String) As Long
Parameters	<div>→ <i>UserName</i> A string containing the name of the user. It must be no more than 20 characters long.</div>
Returns	The user ID.
Errors	<div>eNoCorePath No path to find the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eNoUsers UserName does not exist in the users data store.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div> <div>eUDUnableToCreate Creating a new users data store failed because of a file error.</div>
Comments	Note that it is possible for the users data store to contain the same name more than once. Because the user ID is the only value that PDUserData ensures is unique, each instance of the same name has a different user ID. Therefore you must perform additional checking to determine whether the user name is unique before you use the user ID returned by this method.
See Also	GetIDFromPath() , GetUserNameFromID() , SetUserName() methods

Methods

GetIDFromPath

GetIDFromPath

Purpose	Retrieves a user ID given the user directory.
Applies to	PDUserData object.
Prototype	Function GetIDFromPath (<i>Path</i> As String) As Long
Parameters	<div>→ <i>Path</i> A string containing the path to the user directory.</div>
Returns	The user ID.
Errors	<div>eInvalidUserDir The specified user directory does not match that of any current user.</div> <div>eNoCorePath No path for the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information, or the user does not exist in it.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div> <div>eUDUnableToCreate Creating a new users data store failed because of a file error.</div>
See Also	GetUserDirectory() , GetIDFromName() , SetUserDirectory() methods

GetIDList

Purpose	Retrieves a list of the category IDs in a schema database.
Applies to	PSDCategoryAdapter object.
Prototype	Function GetIDList () As Variant
Parameters	None.
Returns	A category ID list as a variant.

Methods

GetIntegerValue

GetIntegerValue

Purpose	Retrieves an integer value from a key in the specified user's area of the users data store.
Applies to	PDUserData object.
Prototype	Function GetIntegerValue (<i>dwUserId</i> As Long, <i>Section</i> As String, <i>Key</i> As String) As Long
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>Section</i> The section name in the specified user's area of the users data store.</div> <div>→ <i>Key</i> The key of the integer to retrieve.</div>
Returns	The integer value as specified.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , SetIntegerValue() , DeleteKey() , GetStringValue() , SetStringValue() methods

GetModifiedIDList

Purpose	Retrieves a list of the IDs of modified categories in a schema database.
Applies to	PSDCategoryAdapter object.
Prototype	Function GetModifiedIDList () As Variant
Parameters	None.
Returns	A category ID list as a variant.

Methods

GetModifiedTableNames

GetModifiedTableNames

Purpose	Retrieves the names of tables that have been modified since the last HotSync operation.
Applies to	PSDDatabaseAdapter object.
Prototype	Function GetModifiedTableNames (<i>vTableName</i>) As Long
Parameters	\leftarrow <i>vTableName</i> A Variant array that contains a list of modified table names.
Returns	The number of modified tables.

GetNameList

Purpose	Retrieves the names of all of the categories in a schema database.
Applies to	PSDCategoryAdapter object.
Prototype	Function GetNameList () As Variant
Parameters	None.
Returns	A category name list as a variant.

Methods

GetNotifierList

GetNotifierList

Purpose	Returns a list of all the registered notifier filenames.
Applies to	PDCondMgr object.
Prototype	Function GetNotifierList () as Variant
Parameters	None.
Returns	A list of filenames as an array of String values.
Errors	<div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Example	<pre>Dim NotifierList As Variant Dim PCondMgr As New PDCondMgr NotifierList = PCondMgr.GetNotifierList ' Check if the returned array contained entries. ' If it's not empty return the filename of the first ' notifier. If Not IsEmpty(NotifierList) Then MsgBox "The first notifier is '" & NotifierList(0) & _ "'", vbInformation End If</pre>
See Also	RegisterNotifier() , ModifyNotifier() , UnregisterNotifier() methods

GetPath

Purpose	Retrieves one of the stored desktop paths.
Applies to	PDInstall object.
Prototype	Function GetPath (<i>type</i> As EPDPathType) As String
Parameters	→ <i>type</i> A constant of type EPDPathType that specifies which path name you want to retrieve.
Returns	The requested path as a string.
Errors	eParamError Parameters were not passed correctly.
Comments	This method retrieves one of the paths stored in the HotSync Manager configuration entries on the desktop (see “ HotSync Manager Configuration Entries ” on page 188 in the <i>Introduction to Conduit Development</i>).
See Also	SetPath() method. EPDPathType constant.

Methods

GetRootDirectory

GetRootDirectory

Purpose	Retrieves the path of all user directories on the desktop computer (as stored in the Core\Path HotSync Manager configuration entry).
Applies to	PDUserData object.
Prototype	Function GetRootDirectory() As String
Parameters	None.
Returns	The path.
Errors	<div>eNoCorePath No path for the users data store was found.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>
Comments	<p>GetRootDirectory() retrieves the value stored in the Core\Path configuration entry. Because HotSync Manager versions 6.0 and later are aware of multiple Windows users, each Windows user must have a separate Core\Path value. To meet Windows standards for the placement of user data, a typical value is C:\Documents and Settings\<WinUsername>\My Documents\Palm OS Desktop. If you need the full path of a HotSync user's directory, then call GetUserDirectory() and append that path to the Core\Path value.</p>
See Also	GetUserDirectory() , GetSlotInstallDirectory() methods

GetRowAdapter

Purpose	Returns a row adapter object for this schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Function GetRowAdapter () As IPSDRowAdapter
Parameters	None.
Returns	None.
Comments	Use row adapters for reading, writing, and modifying table rows in a schema database.

Methods

GetRowCount

GetRowCount

- Purpose** Retrieves the number of rows in this row set.
- Applies to** [PSDRowSet](#) object.
- Prototype** Function **GetRowCount** () As Long
- Parameters** None.
- Returns** The number of rows in this row set.

GetRowCountInTable

Purpose	Retrieves the number of rows in a table in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Function GetRowCountInTable (ByVal <i>bExcludeDelete</i> As Boolean, ByVal <i>TableName</i> As String) As Long
Parameters	<div>→ <i>bExcludeDelete</i> If True, excludes from the count all rows that are marked as deleted. If False, includes all rows.</div> <div>→ <i>TableName</i> The name of the table to get the row count of.</div>
Returns	The number of rows in the table.

Methods

GetSlotCount

GetSlotCount

Purpose	Retrieves the number of expansion slots on the handheld for the specified user.
Applies to	PDUserData object.
Prototype	Function GetSlotCount (<i>dwUserId</i> As Long) As Integer
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div>
Returns	The number of slots.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErra No expansion slot information was previously saved for the specified user.</div>
Comments	HotSync Manager retrieves this information from the handheld at the beginning of each HotSync operation and saves it for the corresponding user in the user data store on the desktop. This method simply passes back the saved value. Therefore this value may not be accurate for the next HotSync operation, because the user may have changed or updated the handheld.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotList() , GetSlotDisplayName() methods

GetSlotDisplayName

Purpose	Retrieves the display name for the given slot on the specified user's handheld.
Applies to	PDUserData object.
Prototype	Function GetSlotDisplayName (<i>dwUserId</i> As Long, <i>dwSlotId</i> As Long) As String
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>dwSlotId</i> The ID of the slot for which to get the name. To get slot IDs, use the PDUserData's GetSlotList() method.</div>
Returns	The display name of the specified slot.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No expansion slot information was previously saved for the specified user.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	<p>Use the display name to identify the slot for the user's benefit, not the slot ID.</p> <p>HotSync Manager assigns names to slots based on their media type at the beginning of each HotSync operation and saves it for the corresponding user in the user information store on the desktop. This method simply passes back the saved information. Therefore it may not be accurate for the next HotSync operation, because the user may have changed or updated the handheld.</p>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotList() , GetSlotCount() methods

Methods

GetSlotFileCount

GetSlotFileCount

Purpose	Retrieves the number of files queued to install to the specified slot for a given user.
Applies to	PDInstall object.
Prototype	Function GetSlotFileCount (<i>UserID</i> As Long, <i>SlotID</i> As Long) As Long
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>SlotID</i> The ID of the slot for which to get the number of queued files. To get slot IDs, use PDUserData's GetSlotList() method.</div>
Returns	The number of queued files.
Errors	<div>eInvalidPath The path of the slot-install directory is longer than 256 characters and cannot be retrieved.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method returns the number of files in the specified user's slot-install directory. See " Installing Files on the Handheld with PDInstall " on page 58 in the <i>COM Sync Suite Companion</i> .
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotList() methods

GetSlotFileSize

Purpose	Retrieves the size of the specified file queued to be installed to the handheld's specified expansion slot for a given user.
Applies to	PDInstall object.
Prototype	Function GetSlotFileSize (<i>UserID</i> As Long, <i>SlotID</i> As Long, <i>FileName</i> As String) As Long
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>SlotID</i> The ID of the slot for which to get the number of queued files. To get slot IDs, use PDUserData's GetSlotList() method.</div> <div>→ <i>FileName</i> The name of the file to get the size of.</div>
Returns	The size of the specified file in bytes.
Errors	<div>eInvalidUser UserID is an invalid number.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method returns the size of a file in the specified user's slot-install directory. See " Installing Files on the Handheld with PDInstall " on page 58 in the <i>COM Sync Suite Companion</i> .
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotList() , GetSlotFileCount() , GetAllQueuedSlotFiles() methods

Methods

GetSlotInfo

GetSlotInfo

Purpose	Retrieves information about a specified expansion slot, including the reference number of a mounted volume.
Applies to	PDExpansionManager object.
Prototype	Sub GetSlotInfo (<i>SlotRefNum</i> As Long, <i>bIsCardPresent</i> As Boolean, <i>bIsVolumeMounted</i> As Boolean, <i>VolRefNum</i> As Long)
Parameters	<div><p>→ <i>SlotRefNum</i> The slot reference number of the slot containing the card to retrieve information about. Call GetSlotReferenceNumbers() to get these values.</p><p>← <i>bIsCardPresent</i> If True, a card is present; if False, no card is present.</p><p>← <i>bIsVolumeMounted</i> If True, a volume is mounted on the card in this slot; if False, no volume is mounted on this card.</p><p>← <i>VolRefNum</i> If <i>bIsVolumeMounted</i> is True, this value is its volume reference number. If not, ignore this value. The currently shipping slot driver from PalmSource supports only one volume per slot.</p></div>
Returns	None.
Errors	<div><p><i>eCommunications</i> Communications with the handheld has either not been initialized or has been lost.</p><p><i>eVFSCardNotPresent</i> No card is present in the given slot.</p><p><i>eVFSInvalidSlotNumber</i> The slot reference number is not valid.</p><p><i>eVFSSectorReadWrite</i> The card does not support the slot driver block read/write API.</p><p><i>eVFSSlotDeallocated</i> The slot reference number is within the valid range, but the Expansion Manager has unloaded the slot driver on the handheld.</p></div>

eVFSUnsupportedOperation

Either virtual file systems are not supported on the handheld or the handheld does not have an expansion slot.

Comments Use the volume reference number passed back by this method to specify the volume to act upon when you call other volume-related methods, such as [GetVolumeManager\(\)](#).

See Also [GetSlotReferenceNumbers\(\)](#), [GetCardInfo\(\)](#), [IsExpansionSlotPresent\(\)](#) methods.

Methods

GetSlotInstallDirectory

GetSlotInstallDirectory

Purpose	Retrieves the slot-install directory name (not the full path) for the specified user and handheld slot.
Applies to	PDUserData object.
Prototype	Function GetSlotInstallDirectory (<i>dwUserId</i> As Long, <i>dwSlotId</i> As Long) As String
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>dwSlotId</i> The ID of the slot for which to get the slot-install directory. To get slot IDs, use the PDUserData's GetSlotList() method.</div>
Returns	The name of the slot-install directory of the specified slot.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No expansion slot information was previously saved for the specified user.</div> <div>eParamError Parameters were not passed correctly.</div>

- Comments** The slot-install directory is the location on the desktop where the [PDInstall](#) object places files queued to be installed on the corresponding slot on the handheld for the specified user.
- HotSync Manager saves this information at the beginning of each HotSync operation and puts it for the corresponding user in the user information store on the desktop. This method simply returns the saved information. Therefore it may not be accurate for the next HotSync operation because the user may have changed or updated the handheld. If files are queued to be installed to a slot and the slot information changes during the next HotSync operation, an install conduit may ignore those files but does not remove the slot-install directory itself.
- See Also** [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetSlotList\(\)](#) methods

GetSlotList

Purpose	Retrieves a list of all the slot IDs for each of the expansion slots present on the specified user's handheld.
Applies to	PDUserData object.
Prototype	Function GetSlotList (<i>dwUserId</i> As Long) As Variant
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div>
Returns	A list of slot IDs as an array of Long values.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No expansion slot information was previously saved for the specified user.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	<p>The Expansion Manager on the handheld identifies slots by slot reference numbers. These slot reference numbers may change depending on the order in which slot drivers are loaded by the Expansion Manager. Moreover, slot reference numbers are available only to conduits during a HotSync operation. Therefore PDUserData uses slot IDs to identify slots instead.</p> <p>HotSync Manager assigns slot IDs to slots on the handheld at the beginning of each HotSync operation and saves them for the corresponding user in the user information store on the desktop. This method simply returns the saved information. Therefore it may not be accurate for the next HotSync operation because the user may have changed or updated the handheld.</p>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotDisplayName() , GetSlotCount() , GetSlotMediaType() methods

GetSlotMediaType

Purpose	Retrieves the media type of the given slot on the specified user's handheld.
Applies to	PDUserData object.
Prototype	Function GetSlotMediaType (<i>dwUserId</i> As Long, <i>dwSlotId</i> As Long) As EPDSlotMediaType
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>dwSlotId</i> The ID of the slot for which to get the media type. To get slot IDs, use the PDUserData's GetSlotList() method.</div>
Returns	The media type as one of the EPDSlotMediaType values.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No expansion slot information was previously saved for the specified user.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	HotSync Manager retrieves this information from the handheld at the beginning of each HotSync operation and saves it for the corresponding user in the user information store on the desktop. This method simply returns the saved information. Therefore it may not be accurate for the next HotSync operation because the user may have changed or updated the handheld.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotList() methods. EPDSlotMediaType constant.

Methods

GetSlotReferenceNumbers

GetSlotReferenceNumbers

Purpose	Retrieves a list of slot reference numbers on a handheld.
Applies to	PDExpansionManager object.
Prototype	Function GetSlotReferenceNumbers () As Variant
Parameters	None.
Returns	A list of slot reference numbers as an array of Long values.
Errors	<div><div>eCommunications</div><div>Communications with the handheld has either not been initialized or has been lost.</div><div>eParamError</div><div>Parameters were not passed correctly.</div><div>eVFSCardNotPresent</div><div>No card is present in the given slot.</div><div>eVFSNoSectorReadWrite</div><div>The card does not support the slot driver block read/write API.</div><div>eVFSUnsupportedOperation</div><div>Either virtual file systems are not supported on the handheld or the handheld does not have an expansion slot.</div></div>
Comments	Use the slot reference numbers returned by this method to specify the slot to act upon when you call other slot-related methods, such as GetCardInfo() and GetSlotInfo() .
See Also	GetCardInfo() , GetSlotInfo() methods.

GetStringData

Purpose	Retrieves a String configuration entry value for the specified conduit.
Applies to	PDCondMgr , PDInstallConduit , PDSysSystemCondMgr objects.
Prototype	PDCondMgr and PDSysSystemCondMgr : Function GetStringData (CreatorID As Long, StringName As String) As String PDInstallConduit : Function GetStringData (UniqueId As Long, StringName As String) As String
Parameters	→ <i>CreatorID</i> If a PDCondMgr or PDSysSystemCondMgr object, this parameter is the creator ID of the conduit you want a value for. → <i>UniqueId</i> If a PDInstallConduit object, this parameter is the unique ID of the install conduit you want a value for. → <i>StringName</i> The name of the string configuration entry you want the value of.
Returns	The value of the specified string entry.
Errors	eInvalidID The specified conduit creator ID is not valid. eNoSuchConduit The specified install conduit does not exist. eParamError Parameters were not passed correctly. eRegistryFailure Unable to access the conduit configuration entries. eValueNotFound The specified value could not be found in the configuration entries for this conduit.

Methods

GetStringData

Comments This is a general purpose method for retrieving a conduit configuration entry by name. If the conduit you want is a standard synchronization conduit (most are), specify the creator ID in the first parameter. If the conduit you want is an [install conduit](#), specify the unique ID in the first parameter.

This method returns information about a conduit that is registered either for the current Windows user or the system, depending on whether it is called for a [PDCondMgr](#) or a [PDSystemCondMgr](#) object.

Example

```
Dim CreatorId As Long
Dim strExtra As String
Const strTestValue = "Hello World"

Dim PCondMgr As New PDCondMgr
CreatorId = PCondMgr.StringToCreatorID("memo")

' Set the value for a custom filed called "ExtraString"
Call PCondMgr.SetStringData(CreatorId, "ExtraString", _
    strTestValue)
strExtra = PCondMgr.GetStringData(CreatorId, "ExtraString")
```

See Also [SetStringData\(\)](#) method

GetStringValue

Purpose	Retrieves a string value from a key in the specified user's area of the users data store.
Applies to	PDUserData object.
Prototype	Function GetStringValue (<i>dwUserId</i> As Long, <i>Section</i> As String, <i>Key</i> As String) As String
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>Section</i> The section name in the specified user's area of the users data store.</div> <div>→ <i>Key</i> The key of the string to retrieve.</div>
Returns	The string value as specified.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>ePathBig The path or string is more than 256 characters long.</div>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , SetStringValue() , DeleteKey() methods

Methods

GetSubDirectoryList

GetSubDirectoryList

Purpose	Retrieves the names of all the subdirectories in a given directory.
Applies to	PDVFSVolumeManager object.
Prototype	Function GetSubDirectoryList (<i>Directory</i> As String, <i>DirList</i> As Variant) As Long
Parameters	<div><div>→ <i>Directory</i> The full path of the directory to retrieve the subdirectory list from.</div><div>← <i>DirList</i> A list of all the subdirectories in the specified directory, passed back as an array of String values represented as a Variant.</div></div>
Returns	The number of subdirectory names passed back in <i>DirList</i> .
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSBadName Invalid path.</div> <div>eVFSEnumerationEmpty No volumes are present to enumerate or none remain to enumerate.</div> <div>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</div> <div>eVFSInvalidOperation A file system is not present.</div> <div>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</div> <div>eVFSNotADirectory This operation can be performed only on a directory.</div>

eVFSNotOpen

The file system library on the handheld necessary for this call has not been installed or has not been opened.

eVFSVolumeBadRef

The volume reference number is invalid because, for example, the volume has not been mounted.

Comments This method retrieves only subdirectory names. Use [GetFileList\(\)](#) to retrieve filenames.

See Also [GetFileList\(\)](#), [Open\(\)](#) methods.

Methods

GetSyncTypeInfo

GetSyncTypeInfo

- Purpose** Retrieves the synchronization mode of a sync atom for this schema database in the current HotSync operation.
- Applies to** [PSDDatabaseAdapter](#) object.
- Prototype** Function **GetSyncTypeInfo** (ByVal *SyncAtom* As EPSDSyncAtom, ByVal *vChangeContext*, *bDeletesPurged* As Boolean) As EPSDSyncType
- Parameters**
- *SyncAtom*
The type of [sync atoms](#) of which to retrieve the sync type. This is one of the [EPSDSyncAtom](#) values.
 - *vChangeContext*
The [change context](#) for which the Sync Manager determines the synchronization type for each sync atom. Specifying this value is optional.
 - ← *bDeletesPurged*
If True, then this parameter indicates that deleted sync atoms have been purged from the handheld since the last HotSync operation with this desktop. If False, these records have not been purged.
- Returns** The type of synchronization that the Sync Manager determines should occur for the specified sync atom. This is one of the [EPSDSyncType](#) values.
- Comments** This method determines the sync mode for each sync atom by comparing the change context that the Sync Manager cached on the desktop during the last HotSync operation with the one it obtains from the handheld when the database is opened. Alternatively, you can pass in the change context via the *vChangeContext* parameter that you received from a call to [GetChangeContext\(\)](#) and cached (possibly on a networked server) during a previous HotSync operation.
- See Also** [GetChangeContext\(\)](#) method.

GetTableCount

- Purpose** Returns the total number of tables in this schema database.
- Applies to** [PSDDatabaseAdapter](#) object.
- Prototype** Function **GetTableCount** () As Long
- Parameters** None.
- Returns** The number of tables in this schema database.

Methods

GetTableInfo

GetTableInfo

- Purpose** Returns information about a table in this schema database.
- Applies to** [PSDDatabaseAdapter](#) object.
- Prototype** Function **GetTableInfo**(ByVal *TableName* As String)
As IPSDTable
- Parameters** → *TableName*
The name of a table in this schema database.
- Returns** A [PSDTable](#) object.

GetTableNames

Purpose	Retrieves the names of all of the tables in this schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Function GetTableNames (<i>TableNames</i>) As Long
Parameters	\leftarrow <i>TableNames</i> A Variant array that contains a list of all of the table names.
Returns	The number of tables in this schema database.

Methods

GetUserCount

GetUserCount

Purpose	Returns the number of users in the users data store.
Applies to	PDUserData object.
Prototype	Function GetUserCount () As Long
Parameters	None.
Returns	The user count.
Errors	<div>eNoCorePath No path for the users data store was found.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>
See Also	GetUserList() , GetUserNameFromID() methods

GetUserDirectory

Purpose	Retrieves the user directory's name for the specified user ID.
Applies to	PDUserData object.
Prototype	Function GetUserDirectory (<i>dwUserId</i> As Long) As String
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div>
Returns	The user directory's name.
Errors	<div>eInvalidUser dwUserID is an invalid number.</div> <div>eNoCorePath No path for the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>
Comments	To get a complete path, concatenate the result of GetRootDirectory() and <code>GetUserDirectory()</code> —for example, <code>root_directory = "C:\Palm\"</code> and <code>user_directory = "NUser"</code> .
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetUserList() , SetUserDirectory() , GetRootDirectory() methods

Methods

GetUserList

GetUserList

Purpose	Retrieves a list of user IDs.
Applies to	PDUserData object.
Prototype	Function GetUserList () As Variant
Parameters	None.
Returns	A list of user IDs as an array of Long values.
Errors	<div>eNoCorePath No path for the users data store was found.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>
See Also	GetUserNameFromID() , GetUserDirectory() methods

GetUserNameFromID

Purpose	Retrieves a user name in the users data store given a user ID.
Applies to	PDUserData object.
Prototype	Function GetUserNameFromID (<i>dwUserId</i> As Long) As String
Parameters	→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.
Returns	A user name as a String.
Errors	eNoCorePath No path for the users data store was found. eOtherUDErr No users data store was found or another method or program is accessing the user data store. eParamError Parameters were not passed correctly. eUDSemaphoreError Another method or program is accessing the user data store.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , SetUserName() methods

Methods

GetUserPassword

GetUserPassword

Purpose	Retrieves the encrypted user password for the specified user ID.
Applies to	PDUserData object.
Prototype	Function GetUserPassword (<i>dwUserId</i> As Long) As String
Parameters	→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.
Returns	An encrypted password as a String.
Errors	eNoCorePath No path for the users data store was found. eOtherUDErr No users data store was found or another method or program is accessing the user data store. eParamError Parameters were not passed correctly. eUDSemaphoreError Another method or program is accessing the user data store.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() methods

GetUserPermanentSyncPreferences

Purpose	Retrieves a conduit's permanent synchronization preferences for the specified user ID.
Applies to	PDUserData object.
Prototype	Function GetUserPermanentSyncPreferences (<i>dwUserId</i> As Long, <i>ConduitCreatorId</i> As Long) As EPDUserSyncAction
Parameters	<p>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</p> <p>→ <i>ConduitCreatorId</i> The creator ID of the conduit you want the preferences of.</p>
Returns	The user's permanent synchronization preferences as a EPDUserSyncAction value.
Errors	<p>eNoCorePath No path for the users data store was found.</p> <p>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</p> <p>eParamError Parameters were not passed correctly.</p> <p>eUDSemaphoreError Another method or program is accessing the user data store.</p>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , SetUserPermanentSyncPreferences() , DeleteUserPermanentSyncPreferences() , GetUserTemporarySyncPreferences() , SetUserTemporarySyncPreferences() , DeleteUserTemporarySyncPreferences() , RemoveUserTemporarySyncPreferences() methods. EPDUserSyncAction constant.

Methods

GetUserTemporarySyncPreferences

GetUserTemporarySyncPreferences

- Purpose** Retrieves a conduit's temporary synchronization preferences for the specified user ID.
- Applies to** [PDUserData](#) object.
- Prototype** Function **GetUserTemporarySyncPreferences** (*dwUserId* As Long, *ConduitCreatorId* As Long) As EPDUserSyncAction
- Parameters**
- *dwUserId*
A unique ID to specify the user to reference in the users data store.
 - *ConduitCreatorId*
The creator ID of the conduit you want the preferences of.
- Returns** The user's temporary synchronization preferences as a [EPDUserSyncAction](#) value.
- Errors**
- eInvalidUser
dwUserID is an invalid number.
 - eNoCorePath
No path for the users data store was found.
 - eOtherUDErr
No users data store was found or another method or program is accessing the user data store.
 - eParamError
Parameters were not passed correctly.
 - eUDSemaphoreError
Another method or program is accessing the user data store.
- See Also** [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [SetUserTemporarySyncPreferences\(\)](#), [DeleteUserTemporarySyncPreferences\(\)](#), [RemoveUserTemporarySyncPreferences\(\)](#), [GetUserPermanentSyncPreferences\(\)](#), [SetUserPermanentSyncPreferences\(\)](#), [DeleteUserPermanentSyncPreferences\(\)](#) methods. [EPDUserSyncAction](#) constant.

GetVolumeCount

Purpose	Retrieves the total number of mounted volumes on cards in all expansion slots.
Applies to	PDVFSManager object.
Prototype	Function GetVolumeCount () As Long
Parameters	None.
Returns	The total number of mounted volumes on cards in all expansion slots. A return value of 0 indicates that either no volumes are mounted, no card is in a slot, or the handheld has no slots.
Errors	None.
Comments	The number of mounted volumes includes those on cards in all expansion slots, if multiple cards are present. To find which card and slot any volume is mounted from, check the SlotReferenceNumber property of a PDVFSVolumeManager object.
See Also	PDVFSVolumeManager object. GetVolumeReferenceList() , GetVolumeManager() methods. SlotReferenceNumber property.

Methods

GetVolumeManager

GetVolumeManager

Purpose	Creates a PDVFSVolumeManager object to access a given volume.
Applies to	PDVFSManager object.
Prototype	Function GetVolumeManager (<i>volRefNo</i> As Long) As Unknown
Parameters	<div>→ <i>volRefNo</i> The volume reference number of the volume to access. Call GetVolumeReferenceList() or GetSlotInfo() to get these values.</div>
Returns	A PDVFSVolumeManager object.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSInvalidOperation A file system is not present.</div>
See Also	PDVFSVolumeManager object. GetVolumeReferenceList() , GetSlotInfo() methods.

GetVolumeReferenceList

Purpose	Retrieves a list of the volume reference numbers of all mounted volumes.
Applies to	PDVFSManager object.
Prototype	Function GetVolumeReferenceList (<i>VolCount</i> As Long) As Variant
Parameters	← <i>VolCount</i> The number of mounted volumes in the retrieved list.
Returns	A list of volume reference numbers as an array of Long values.
Errors	<i>eCommunications</i> Communications with the handheld has either not been initialized or has been lost. <i>eParamError</i> Parameters were not passed correctly. <i>eVFSInvalidOperation</i> A file system is not present.
Comments	This method returns a list of reference numbers of all of the volumes that are mounted. The list can span across expansion cards, if multiple cards are present.

NOTE: Volume reference numbers can change each time the handheld mounts a given volume. If you need to keep track of a particular volume from one HotSync operation to the next, save the volume's [Label](#) property rather than its reference number.

See “[Volume Operations](#)” on page 91 in the *COM Sync Suite Companion* for details and an example of checking for the presence of slots, cards, and volumes and then using `GetVolumeReferenceList`.

Methods

GetVolumeReferenceList

Example

```
Dim VolumeCount As Long
Dim VFSManager As New PDVFSManager
Dim VFSVolume As PDVFSVolumeManager
Dim VolList() As Integer

' Check whether an expansion slot and a card are present
' first.

' Get a list of volume reference numbers.
VolList = VFSManager.GetVolumeReferenceList(VolumeCount)

' Use the first available volume.
Set VFSVolume = VFSManager.GetVolumeManager(VolList(0))
```

See Also

[PDVFSVolumeManager](#) object.
[GetVolumeManager\(\)](#), [GetVolumeCount\(\)](#) methods.
[SlotReferenceNumber](#) property.

HHOsVersion

Purpose	Returns the Palm OS® software version.
Applies to	PDSystemAdapter object.
Prototype	Sub HHOsVersion (<i>nVMajor</i> as Integer, <i>nVMinor</i> as Integer)
Parameters	<div>← <i>nVMajor</i> Major version number.</div> <div>← <i>nVMinor</i> Minor version number.</div>
Returns	None.
Example	<pre>Dim pSystem as new PDSystemAdapter Dim VMajor as Integer Dim VMinor as Integer PSystem.HHOsVersion(VMajor, VMinor)</pre>

Methods

ImportDatabaseFromFile

ImportDatabaseFromFile

Purpose	Creates a database from the specified PDB or PRC file on an expansion card. Works only with classic databases.
Applies to	PDVFSVolumeManager object.
Prototype	Function ImportDatabaseFromFile (<i>PathName</i> As String, <i>cardNo</i> As Long) As String
Parameters	<div><div>→ <i>PathName</i> The full path and filename of the source file from which to create the database.</div><div>← <i>cardNo</i> The RAM card number on which this method created the database in primary storage. Note that this does not refer to the expansion card and is therefore not related to the slot reference number. The card number for the first RAM memory card on the handheld is 0, which is the only one that most handhelds have.</div></div>
Returns	The String name of the database created in primary storage memory on the handheld.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eFileExists A database with the specified name already exists in primary storage memory on the handheld.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSBadData The operation could not be completed because of invalid data—for example, importing a database from a corrupted PRC file.</div> <div>eVFSBadName Invalid filename or path.</div> <div>eVFSInvalidOperation A file system is not present.</div>

Comments This utility method imports a PDB or PRC file on an expansion card into a new database in the handheld storage heap. If the database already exists, this method passes back a value in `cardNo` and returns the name of the existing database and generates an error code of `eFileExists`. This method is the opposite of [ExportDatabaseToFile\(\)](#). This method is used, for example, to copy applications from a volume on an expansion card to primary storage memory on a handheld.

IMPORTANT: This method works only with classic databases. It cannot import schema or extended databases.

See Also [ExportDatabaseToFile\(\)](#), [Read\(\)](#) methods.

Methods

InstallAndBackupDatabase

InstallAndBackupDatabase

- Purpose** Installs a database on the handheld from an image file on the desktop and then backs up the same database.
- Applies to** [PSDDatabaseUtilities](#) object.
- Prototype** Function **InstallAndBackupDatabase** (ByVal *FilePath* As String, *backupPath* As String, *bIsInstalled* As Boolean) As IPSSDatabaseInfo
- Parameters**
- *FilePath*
The full path and filename of the image file to install, as a null-terminated string. Do not pass in a null value.
 - ↔ *backupPath*
The destination path or filename of the backup file, as a null-terminated string. If the caller specifies a directory path, then the Sync Manager generates the filename automatically, appends it to the specified directory path, and backs up the database using this full path and filename. If the caller passes in a null value, then the default backup path is used: <CurrentHotSyncUserFolder>\Backup. Upon return, this parameter receives the actual path and filename used.
 - ← *bIsInstalled*
If True, the database was successfully installed; otherwise, the installation failed.
- Returns** A [PSDDatabaseInfo](#) object that describes the database that this method installed. The properties of this object are valid only when *bIsInstalled* is True.
- Comments** This method installs a Palm OS database on the handheld in the same way that [InstallDatabase\(\)](#) does and backs up the same database in the same way that [BackupDatabase\(\)](#) does. However, this method is significantly faster than performing the two operations separately, because the backup operation does not transfer the database back from the handheld; it simply copies the install file to the backup directory.
- This method performs the backup operation only when the database backup bit is set *or* the database creator ID does not consist entirely of lowercase letters—that is, the creator ID is not reserved for use by PalmSource, Inc.; in the latter case, the backup bit is automatically set in both the handheld database and the desktop

image. When the backup is performed, the backup image's creation, modification, and backup dates are updated with the corresponding handheld values.

This method's generated error along with the output parameters indicate the success or failure of each operation. If this method generates *S_OK*, then *bIsInstalled* is *True*. If this method returns *S_OK* and ([PSDDatabaseInfo.Attributes](#) And *ePSDBackupDb*) is nonzero, then the database was successfully backed up. If this method generates any other error and *bIsInstalled* is *True*, then the error occurred during the backup. Otherwise, *bIsInstalled* is *False*, and the method failed during installation; this implies that the properties of the returned [PSDDatabaseInfo](#) are not updated.

Compatibility Palm OS version: Palm OS Cobalt, version 6.0 or later.

Methods

InstallDatabase

InstallDatabase

Purpose	Installs a database image file on the desktop to primary storage on a handheld.
Applies to	PSDDatabaseQuery , PSDDatabaseUtilities objects.
Prototype	Sub InstallDatabase (ByVal <i>FilePath</i> As String)
Parameters	<div><i>→ FilePath</i> The path and filename of the image file to install as a database, including a null terminator value. Do not pass in only a null value.</div>
Returns	None.
Comments	<p>With this method, a conduit can write an entire database to the handheld in one call. A conduit can call this method at any time after HotSync Manager calls its <code>BeginProcess()</code> entry point and before it returns. Alternatively, before a HotSync operation begins, a desktop application or installer can queue a database or file to be installed by a default install conduit during the next HotSync; see PDInstall for details.</p> <p>This method reads a file on the desktop that is an image of any valid Palm OS database. The Sync Manager validates the file to some extent and then transfers it as a database to memory on the handheld. If a database with the same name and creator ID in the relevant namespace already exists on the handheld, this method deletes it and writes a new database from the image file.</p> <p>If the database creator ID does not consist of all lowercase letters—that is, the creator ID is not reserved for use by PalmSource, Inc.—this method automatically sets the database’s backup bit.</p>

InstallFileToHH

Purpose	Queues a file to be installed in primary storage on a user's handheld.
Applies to	PDInstall object.
Prototype	Sub InstallFileToHH (<i>UserID</i> As Long, <i>FileName</i> As String)
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>FileName</i> The name of the file to install.</div>
Returns	None.
Errors	<div>eInvalidUser UserID is an invalid number.</div> <div>eOtherError An unspecified error occurred.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method copies the file specified by <i>FileName</i> into the handheld-install directory for the user name specified by <i>UserID</i> , and then sets an "Install" configuration entry to specify which install conduit that HotSync Manager must run during the next synchronization operation to install the specified file.

IMPORTANT: When calling `InstallFileToHH`, you must specify a file of a type that is supported for installation as a database in the handheld's primary storage. If you specify an unsupported file type, `InstallFileToHH` does not generate an error and the file is not installed during the next HotSync operation. To avoid this problem, check the extension of the filename before you call this method to install it. If the extension is not one of the Palm OS® platform's standard extensions (`.prc`, `.pdb`, `.pqa`, `.pnc`, or `.scp`), do not call this method to install it. However, note that all file types may be installed to an expansion card with [InstallFileToSlot\(\)](#).

Methods

InstallFileToHH

Example

```
Dim PInstall As New PDInstall
Dim UserData As New PDUserData
Dim UserId As Long

' Retrieve the user ID from the HotSync Manager user name.
UserId = UserData.GetIDFromName("Palm OS Emulator")

Call PInstall.InstallFileToHH(UserId, "c:\temp\MyApp.prc")
```

See Also

[GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [RemoveFileFromHHQueue\(\)](#), [InstallFileToSlot\(\)](#) methods

InstallFileToSlot

Purpose	Queues a file to be installed in secondary storage in an expansion slot of a user's handheld.
Applies to	PDInstall object.
Prototype	Sub InstallFileToSlot (<i>UserID</i> As Long, <i>SlotID</i> As Long, <i>File</i> As String)
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>SlotID</i> The ID of the slot to install the file to. To get slot IDs, use PDUUserData's GetSlotList() method.</div> <div>→ <i>File</i> The name of the file to install.</div>
Returns	None.
Errors	<div>eInvalidUser UserID is an invalid number.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method copies the file specified by <i>File</i> into the slot-install directory specified by <i>UserID</i> and <i>SlotID</i> , and then modifies the conduit configuration entries to notify HotSync Manager that it needs to install the file during the next HotSync operation. This method accepts all file types.

Methods

InstallFileToSlot

Example

```
Dim PInstall As New PDInstall
Dim UserData As New PDUserData
Dim UserId As Long

' Retrieve the user ID from the HotSync Manager user name.
UserId = UserData.GetIDFromName("Palm OS Emulator")

Call PInstall.InstallFileToSlot(UserId, 0, _
    "c:\temp\MyApp.prc")
```

See Also

[GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#),
[GetSlotList\(\)](#), [RemoveFileFromSlotQueue\(\)](#),
[InstallFileToHH\(\)](#) methods

IsArchived

Purpose	Determines whether this row is marked for archiving.
Applies to	PSDRowData object.
Prototype	Function IsArchived () As Boolean
Parameters	None.
Returns	True, if this row is marked to be archived; False, if not.

Methods

IsDatabaseBackupNeeded

IsDatabaseBackupNeeded

- Purpose** Determines whether the desktop backup file for a database on the handheld is out-of-date.
- Applies to** [PSDDatabaseUtilities](#) object.
- Prototype** Function **IsDatabaseBackupNeeded**(ByVal *DBName* As String, ByVal *vCreatorID*, ByVal *vType*, *FilePath* As String, ByVal *Attribute* As EPSDDBAAttribute, *HHDBInfo* As IPSDDatabaseInfo, *DTDBInfo* As IPSDDatabaseInfo, *bDbExists* As Boolean, *bFileExists* As Boolean) As Boolean
- Parameters**
- *DBName*
The [database name](#) as a null-terminated string. Do not pass in a null value. See [PSDDatabaseInfo.Name](#).
 - *vCreatorID*
The creator ID of the database. See [PSDDatabaseInfo.CreatorID](#).
 - *vType*
The database type. See [PSDDatabaseInfo.Type](#).
 - ↔ *FilePath*
The desktop filename or directory of the corresponding backup file to test. Do not pass in a null value. If this parameter specifies a directory that exists and the handheld database exists, then this parameter receives the full path with the automatically generated filename appended.
 - *Attributes*
A [EPSDDBAAttribute](#) enum value that specifies whether the database is a schema, extended, or classic database.
 - ← *HHDBInfo*
A [PSDDatabaseInfo](#) object that receives values for the following properties if the database exists on the *handheld*: [Attributes](#), [BackupDate](#), [CreationDate](#), [CreatorID](#), [Flags](#), [IsReadOnlyDatabase](#), [ModifyDate](#), [ModifyNumber](#), [Name](#), [Type](#), and [Version](#). Note that to generate the backup filename if *FilePath* is a directory, this method uses the [Type](#) and [Attributes](#) that it passes *back*.

← *DTDBInfo*

A [PSDDatabaseInfo](#) object that receives values for the following properties if the specified image file on the *desktop* exists: [Attributes](#), [BackupDate](#), [CreationDate](#), [CreatorID](#), [Flags](#), [IsReadOnlyDatabase](#), [ModifyDate](#), [ModifyNumber](#), [Name](#), [Type](#), and [Version](#). .

← *bDbExists*

If *True*, then the specified database exists on the handheld. If *False*, it does not exist.

← *bFileExists*

If *True*, then the specified backup file exists on the desktop. If *False*, it does not exist.

Returns *True*, if the specified backup file is out-of-date compared to the specified database on the handheld. *False*, if the file is not out-of-date as defined in the “Comments” section.

Comments This method determines whether a desktop backup file exists for, or is older than, a corresponding database on the handheld. A conduit can call this method at any time after HotSync Manager calls its `BeginProcess()` entry point and before it returns. Note that the Sync Manager can back up secure databases only to trusted desktops.

This method considers a backup file on the desktop to be out-of-date (and therefore returns *True*) only if *all* of the following statements are true:

- The specified database is present on the handheld.
- The database’s backup bit is set.
- One or more of the following is true:
 - The backup file does not exist on the desktop.
 - The backup file exists, but it is not a backup file for the specified database, either because it isn’t of the same type or it doesn’t have the same database name and creator ID.
 - The handheld and desktop creation dates differ.
 - The handheld and desktop modification dates differ.
 - The handheld last backup date is zero.

Methods

IsDatabaseBackupNeeded

NOTE: If the database's backup bit is not set, this function always returns `False`.

Consider when the *FilePath* parameter specifies a directory that exists on the desktop and the *HHDBInfo* parameter specifies a database that exists on the handheld. In this case, the Sync Manager generates the filename of the backup file based on information in the handheld database header. When this method returns, it appends the filename to the original directory path and passes back this full path and filename via *FilePath*.

However, consider when the *FilePath* parameter specifies a directory that does *not* exist on the desktop and the specified database exists on the handheld. In this case, the Sync Manager assumes that the last part of the path is the filename of the backup file. When this method returns, it does *not* change *FilePath* by appending a generated filename.

Compatibility Palm OS version: Palm OS Cobalt, version 6.0 or later.

IsDataModified

Purpose	Determines whether this row contains column data that is marked as modified since the last HotSync operation.
Applies to	PSDRowData object.
Prototype	Function IsDataModified() As Boolean
Parameters	None.
Returns	True, if this row contains column data that has been modified since the last HotSync operation; False, if not.
Comments	This method does not indicate whether the row's category memberships have changed. To determine that, call IsMembershipModified() instead.

Methods

IsDeleted

IsDeleted

Purpose	Determines whether this row has been marked as deleted.
Applies to	PSDRowData object.
Prototype	Function IsDeleted () As Boolean
Parameters	None.
Returns	True, if this row has been deleted on the handheld since the last HotSync operation; False, if not.

IsDirty

Purpose	Determines whether a category has been modified since the last HotSync operation.
Applies to	PSDCategoryAdapter object.
Prototype	Function IsDirty (ByVal <i>CategoryID</i> As Long) As Boolean
Parameters	→ <i>CategoryID</i> Specifies the category ID of the category to query.
Returns	True, if the specified category has been modified; False, if not.

Methods

IsExpansionSlotPresent

IsExpansionSlotPresent

Purpose	Verifies the presence of an expansion slot on the handheld.
Applies to	PDExpansionManager object.
Prototype	Function IsExpansionSlotPresent() As Boolean
Parameters	None.
Returns	True if an expansion slot is present, False if not.
Errors	None.
Comments	<p>The information returned by this method has already been obtained by the desktop VFS Manager, so no additional calls are made to the handheld at the time you call this method.</p> <p>This method determines only whether the optional Expansion Manager and VFS Manager system extensions are present on the handheld. From this you can infer that an expansion slot is present, because no handheld ships with these extensions unless it has a slot. Then to confirm whether the slot has a card in it, you must use the GetSlotInfo() method.</p> <hr/> <p>NOTE: PalmSource recommends that you call this method to confirm that a slot is present before calling other expansion-related methods. Errors generated by other methods may not clearly indicate that they failed because Expansion Manager and VFS Manager are not present on the handheld.</p> <hr/>
See Also	GetSlotInfo() , GetSlotReferenceNumbers() methods.

IsMembershipModified

Purpose	Determines whether this row's category memberships have been modified.
Applies to	PSDRowData object.
Prototype	Function IsMembershipModified () As Boolean
Parameters	None.
Returns	True, if this row has been added or deleted from one or more categories since the last HotSync operation; False, if not.
Comments	Row category membership is not modified by a change in the category's name.

Methods

IsProfileUser

IsProfileUser

Purpose	Determines whether an account is a user profile .
Applies to	PDUserData object.
Prototype	Function IsProfileUser (<i>dwUserId</i> As Long) As Boolean
Parameters	→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.
Returns	A Boolean value: if True, this account is a user profile; if False, it is a regular user account.
Errors	<div>eNoCorePath No path for the users data store was found.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>
Comments	For more information on user profiles, see the glossary in the <i>Introduction to Conduit Development</i> .
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , AddNewUser() methods

IsRowInCategory

Purpose	Determines whether a row belongs to a set of categories.
Applies to	PSDRowAdapter object.
Prototype	Function IsRowInCategory (ByVal <i>vRowID</i> , <i>vCategoryIDList</i> , ByVal <i>MatchMode</i> As EPSDMatchMode) As Boolean
Parameters	<div>→ <i>vRowID</i> The row ID of the row to check the category memberships of.</div> <div>→ <i>vCategoryIDList</i> The set of categories to check against. This is an array of category IDs.</div> <div>→ <i>MatchMode</i> The category match mode that this method uses to match the specified category ID list against the row's category memberships. Specify one of the EPSDMatchMode values.</div>
Returns	True, if the row is a member of the specified set of categories according to the match mode. False, if it is not.

Methods

IsSyncInProgress

IsSyncInProgress

Purpose	Determines whether the HotSync Manager application is currently busy synchronizing a handheld.
Applies to	PDHotSyncUtility object.
Prototype	Function IsSyncInProgress() As Boolean
Parameters	None.
Returns	The status of HotSync Manager: <ul style="list-style-type: none">• If True, HotSync Manager is performing a HotSync operation.• If False, HotSync Manager is idle.
Errors	eHotSyncNotFound HotSync Manager is not running.
See Also	StartHotSyncMgr() , RestartHotSyncMgr() , RefreshConduitInfo() , TerminateHotSyncMgr() methods

IsVolumeAvailable

Purpose	Determines whether there is a volume available on the handheld.
Applies to	PDVFSManager object.
Prototype	Function IsVolumeAvailable () As Boolean
Parameters	None.
Returns	True if a mounted volume is present, False if not.
Errors	None.
See Also	PDVFSVolumeManager object. GetVolumeReferenceList() , GetVolumeManager() , GetVolumeCount() methods.

Methods

LaunchCustomDlg

LaunchCustomDlg

Purpose	Displays the Custom dialog box of the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub LaunchCustomDlg ();
Parameters	None.
Returns	None.
Errors	eHotSyncNotFound HotSync Manager is not running.
Comments	The Custom dialog box enables the user to view or change the synchronization preferences of each conduit—for example, Synchronize, Desktop overwrites handheld, and so on.
See Also	StartHotSyncMgr() , LaunchFileLinkDlg() , LaunchSetupDlg() , methods

LaunchFileLinkDlg

Purpose	<i>(Deprecated)</i> Displays the File Link wizard of the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub LaunchFileLinkDlg (<i>dwUserId</i> As Long)
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user for whom you want to set up a file link. If this value is 0, the current user's file link information is displayed.</div>
Returns	None.
Errors	<div>eHotSyncNotFound HotSync Manager is not running.</div>
Comments	The File Link wizard enables the user to create or modify a file link .
Compatibility	This method is deprecated because the file link feature has been removed from HotSync Manager versions 6.0.1 and later.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , StartHotSyncMgr() , LaunchCustomDlg() , LaunchSetupDlg() , methods

Methods

LaunchSetupDlg

LaunchSetupDlg

Purpose	Displays the Setup dialog box of the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub LaunchSetupDlg ()
Parameters	None.
Returns	None.
Errors	eHotSyncNotFound HotSync Manager is not running.
Comments	The Setup dialog box enables the user to select a serial port, configure a modem, and set up network HotSync operation for each user.
See Also	StartHotSyncMgr() , LaunchCustomDlg() , LaunchFileLinkDlg() methods

ModifyNotifier

Purpose	Modifies the path or filename of a notifier already registered with HotSync Manager.
Applies to	PDCondMgr object.
Prototype	Sub ModifyNotifier (<i>OriginalPath</i> As String, <i>NewPath</i> As String)
Parameters	<div>→ <i>OriginalPath</i> The full path or filename of a registered notifier.</div> <div>→ <i>NewPath</i> The full path or filename you want to change this notifier to.</div>
Returns	None.
Errors	<div>eNotifierNotFound The <i>OriginalPath</i> notifier name was not found in the list of registered notifiers.</div> <div>eParamError Parameters were not passed correctly.</div> <div>ePathBig The path specified by <i>NewPath</i> is longer than 256 characters.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Comments	You can use this method to specify a new location for a Notifier.

IMPORTANT: Do not set *NewPath* to Null as a way of unregistering a notifier. Use the [UnregisterNotifier\(\)](#) method instead.

Methods

ModifyNotifier

Example

```
Dim PDCondMgr As New PDCondMgr

Call PDCondMgr.RegisterNotifier("C:\CDK403\C++\Samples\_
    PDNotify\Debug\PdN20d.dll")
Call PDCondMgr.ModifyNotifier("C:\CDK403\C++\Samples\_
    PDNotify\Debug\PdN20d.dll", "C:\PdN20d.dll")
Call PDCondMgr.UnregisterNotifier("C:\CDK403\C++\Samples\_
    PDNotify\Debug\PdN20d.dll")
```

See Also

[GetNotifierList\(\)](#), [RegisterNotifier\(\)](#),
[UnregisterNotifier\(\)](#) methods

ModifyRow

Purpose	Writes an entire row—attributes, category memberships, and column values—to a schema database on the handheld.
Applies to	PSDRowAdapter object.
Prototype	Sub ModifyRow (ByVal <i>RowID</i> , <i>PSDRowData</i> As IPSDRowData)
Parameters	<div>→ <i>RowID</i> The row ID of the row to write.</div> <div>→ <i>PSDRowData</i> A PSDRowData object that specifies the row's data to write.</div>
Returns	None.

Methods

MoveFirst

MoveFirst

- Purpose** Moves the cursor to the first row in this set and returns an object representing the first row.
- Applies to** [PSDRowSet](#) object.
- Prototype** Function **MoveFirst**() As IPSDRowData
- Parameters** None.
- Returns** A [PSDRowData](#) object that represents the first row in this set.

MoveLast

- Purpose** Moves the cursor to the last row in this set and returns an object representing the last row.
- Applies to** [PSDRowSet](#) object.
- Prototype** Function **MoveLast** () As IPSDRowData
- Parameters** None.
- Returns** A [PSDRowData](#) object that represents the last row in this set.

Methods

MoveNext

MoveNext

- Purpose** Moves the cursor to the next row in this set and returns an object representing this row.
- Applies to** [PSDRowSet](#) object.
- Prototype** Function **MoveNext** () As IPSDRowData
- Parameters** None.
- Returns** A [PSDRowData](#) object that represents the next row in this set.

MovePrevious

- Purpose** Moves the cursor to the previous row in this set and returns an object representing this row.
- Applies to** [PSDRowSet](#) object.
- Prototype** Function **MovePrevious**() As IPSDRowData
- Parameters** None.
- Returns** A [PSDRowData](#) object that represents the previous row in this set.

Methods

MoveRowsToCategory

MoveRowsToCategory

Purpose	Moves all of the rows that belong to a specified set of categories into another category.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub MoveRowsToCategory (<i>vCategoryIDList</i> , ByVal <i>MatchMode</i> As EPSDMatchMode, ByVal <i>TargetCategoryID</i> As Long)
Parameters	<div>→ <i>vCategoryIDList</i> A Variant array of category IDs to match.</div> <div>→ <i>MatchMode</i> The category match mode that this method uses to match the specified category ID list against rows' category memberships. Specify one of the EPSDMatchMode values.</div> <div>→ <i>TargetCategoryID</i> The category ID of the category to move all matching rows into.</div>
Returns	None.
Comments	All matching rows lose their existing category memberships and are moved into only the <i>TargetCategoryID</i> category.

MoveTo

Purpose	Moves the cursor to the specified row in this set and returns an object representing this row.
Applies to	PSDRowSet object.
Prototype	Function MoveTo (ByVal <i>nRow</i> As Long) As IPSDRowData
Parameters	<div>→ <i>nRow</i> A zero-based index of a row in this row set. Call GetRowCount() to determine the valid index range.</div>
Returns	A PSDRowData object that represents the specified row in this set.

Methods

Open

Open

Purpose Opens a file or directory on an expansion card and returns a [PDVFSFileManager](#) object.

Applies to [PDVFSVolumeManager](#) object.

Prototype Function **Open**(*PathName* As String, *openMode* As EPDVFSFileOpenAttr) As Unknown

Parameters → *PathName*

The full path and filename (or only the path) of the file (or directory) to create. All parts of the path, including the filename, must already exist. This parameter cannot be empty and cannot contain Null characters. The format of the path should match what the underlying file system supports. See “[Directory Paths](#)” on page 100 in the *COM Sync Suite Companion* for a description of how to construct a valid path.

→ *openMode*

One of the EPDVFSFileOpenAttr constants to specify the mode to use when opening the file or directory. See “[EPDVFSFileOpenAttr](#)” on page 553 for a list of accepted modes.

Returns A [PDVFSFileManager](#) object representing the open file or directory.

Errors eCommunications

Communications with the handheld has either not been initialized or has been lost.

eParamError

Parameters were not passed correctly.

eVFSBadName

Invalid filename or path.

eVFSFileNotFound

The file was not found in the specified path.

eVFSFilePermissionDenied

Permission denied to perform requested operation—for example, an attempt to write to a read-only file or to read a file already opened in the eVFSModeExclusive mode.

eVFSInvalidOperation

A file system is not present.

eVFSNotOpen

The file system library on the handheld necessary for this call has not been installed or has not been opened.

eVFSVolumeBadRef

The volume reference number is invalid because, for example, the volume has not been mounted.

Comments The [PDVFSFileManager](#) object obtained for a directory cannot be used for all methods. For example, it is not permitted (or logical) to read directly from an opened directory.

See Also [PDVFSFileManager](#) object.
[Close\(\)](#), [Read\(\)](#), [Write\(\)](#), [Tell\(\)](#), [Seek\(\)](#), [GetFileList\(\)](#) methods.

Methods

OpenDatabase

OpenDatabase

- Purpose** Opens a schema database.
- Applies to** [PSDDatabaseQuery](#) object.
- Prototype** Function **OpenDatabase** (ByVal *DatabaseName* As String, ByVal *vCreatorID*, [ByVal *openMode* As EPSDOpenMode], [ByVal *shareMode* As EPSDShareMode = EPSDShareNone]) As IPSSDatabaseAdapter
- Parameters**
- *DatabaseName*
The [database name](#) as a null-terminated string. Do not pass in a null value. See [PSDDatabaseInfo.Name](#).
 - *vCreatorID*
Creator ID of the database. See [PSDDatabaseInfo.CreatorID](#).
 - *openMode*
The access mode in which to open the database—read-only, read/write, and show private records. Specify a nonexclusive combination of the [EPSDOpenMode](#) values.
 - *shareMode*
The share mode in which to open the database—share for read-only access or do not share. Specify one of the [EPSDShareMode](#) values.
- Returns** A [PSDDatabaseAdapter](#) object representing the open schema database.
- Comments** Note that in the *openMode* parameter, you cannot specify `ePSDShowSecret` alone; you must also specify one of the other values: `ePSDReadOnly` or `ePSDReadWrite`.

OpenRecordDatabase

- Purpose** Opens a classic or extended record database on the handheld.
- Applies to** [DmDatabaseQuery](#), [PDDatabaseQuery](#) objects.
- Prototype** [DmDatabaseQuery](#):
- ```
Function OpenRecordDatabase (ByVal pDbName As String, ByVal vCreator, ByVal pAdapterName As String, [ByVal eAccessMode As EAccessModes]) As IUnknown
```
- [PDDatabaseQuery](#):
- ```
Function OpenRecordDatabase (ByVal pDbName As String, ByVal pAdapterName As String, [ByVal eAccessMode As EAccessModes]) As IUnknown
```
- Parameters**
- *pDbName*
Name of database to open (case sensitive, 1-31 characters).
 - *vCreator*
([DmDatabaseQuery](#) only) Creator ID of the database as a Variant—for example, 'adrs'. Unlike classic databases, extended databases must be specified by both name and creator ID.
 - *pAdapterName*
Full name of the COM Sync database adapter to use. Names are of this form:

LibraryName.AdapterName

Do not include “Lib” in the name—for example, use PDDirect.PDRecordAdapter, not PDDirectLib.PDRecordAdapter.
 - *eAccessMode*
Access modes from the [EAccessModes](#) constants.
- Returns** A database adapter object of the type you specify in the *pAdapterName* parameter. Possible returned objects include [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDMemoDbHHRecordAdapter](#), and [PDToDoDbHHRecordAdapter](#) objects.

Methods

OpenRecordDatabase

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", _
    "PDDirect.PDRecordAdapter")
```

See Also

[DmRecordAdapter](#), [DmDatabaseQuery](#), [PDRecordAdapter](#), [PDDatabaseQuery](#) objects.
[CreateRecordDatabase\(\)](#) method.
[EAccessModes](#) constants.

OpenResourceDatabase

Purpose	Opens a resource database on the handheld.
Applies to	PDDatabaseQuery object.
Prototype	Function OpenResourceDatabase (<i>pDbName</i> as String, <i>pAdapterName</i> as String, [<i>nAccessMode</i> as EAccessModes = eRead Or eWrite Or eShowSecret]) as PDResourceAdapter
Parameters	<div>→ <i>pDbName</i> Name of database to open.</div> <div>→ <i>pAdapterName</i> ProgID of the database adapter to use. Do not include "Lib" in the ProgID—for example, use PDDirect.PDResourceAdapter, not PDDirectLib.PDResourceAdapter.</div> <div>→ <i>nAccessMode</i> Access modes from the EAccessModes constants.</div>
Returns	A PDResourceAdapter object.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDResourceAdapter Set Adapter = DbQuery.OpenResourceDatabase("Saved _ Preferences", "PDDirect.PDResourceAdapter")</pre>
See Also	PDResourceAdapter object EAccessModes constants

Methods

PurgeAllRowsInTable

PurgeAllRowsInTable

Purpose	Removes all the rows that are marked as deleted in a table in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Sub PurgeAllRowsInTable (ByVal <i>TableName</i> As String)
Parameters	<div>→ <i>TableName</i> The name of the table to purge. Specify a null value to purge all rows in all tables in the database.</div>
Returns	None.

Read

Purpose	Reads data from a file on an expansion card into the specified buffer.
Applies to	PDVFSFileManager object.
Prototype	Function Read (<i>numBytes</i> As Long, <i>Buffer</i> As Variant) As Long
Parameters	<p>→ <i>numBytes</i> The number of bytes to read.</p> <p>← <i>Buffer</i> A Variant to receive the array of bytes to be read.</p>
Returns	The number of bytes (as a Long) that were actually read.
Errors	<p>eParamError The Buffer or numBytes parameter is Null.</p> <p>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</p> <p>eVFSFilePermissionDenied Permission denied to perform requested operation.</p> <p>eVFSInvalidOperation A file system is not present.</p> <p>eVFSIsADirectory This operation can be performed only on a regular file, not a directory.</p> <p>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</p> <p>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</p> <p>eVFSVolumeBadRef The volume reference number is invalid because, for example, the volume has not been mounted.</p>

Methods

Read

- Comments** This method operates only on files and cannot be used with directories; use [GetSubDirectoryList\(\)](#) and [GetFileList\(\)](#) to explore the contents of a directory.
- See Also** [Open\(\)](#), [Tell\(\)](#), [Seek\(\)](#), [Write\(\)](#), [ImportDatabaseFromFile\(\)](#) methods.

ReadAppInfoBlock

Purpose	Reads this database's application info block.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Function ReadAppInfoBlock () as Variant
Returns	A Byte array containing the application info block.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Read the AppInfo block Dim vAppInfo as Variant vAppInfo = Adapter.ReadAppInfoBlock</pre>

Methods

ReadAppPreference

ReadAppPreference

Purpose	Reads an application's preference block.
Applies to	PDSystemAdapter object.
Prototype	Function ReadAppPreference (<i>vCreator</i> as Variant, <i>nId</i> as Long, <i>bBackup</i> as Boolean, <i>nVersion</i> as Integer) as Variant
Parameters	<div><div>→ <i>vCreator</i> Creator ID. The unique ID associated with each database and application on the device.</div><div>→ <i>nId</i> Preference ID.</div><div>→ <i>bBackup</i> Saved or unsaved preference. When True, this method will read from the Saved Preferences database. When False, this method will read from the Unsaved Preferences database.</div><div>← <i>nVersion</i> Preference version.</div></div>
Returns	A Byte array containing the application preference data.
Example	<pre>Dim pSystem as New PDSystemAdapter Dim vAppPref as Variant Dim Version as Integer vAppPref = PSystem.ReadAppPreference("mail", 1, True, _ Version)</pre>
See Also	WriteAppPreference() method.

ReadBackupImageInfo

Purpose	Reads the database header information from a backup image file on the desktop.
Applies to	PSDDatabaseQuery , PSDDatabaseUtilities objects.
Prototype	Function ReadBackupImageInfo (ByVal <i>FilePath</i> As String) As IPSDDatabaseInfo
Parameters	→ <i>FilePath</i> The path and filename of the backup image file, as a null-terminated string. Do not pass in a null value.
Returns	A PSDDatabaseInfo object that contains information about the backup image file.
Comments	This method can be called outside of a HotSync operation.

ReadById

- Purpose** Reads a record using its unique ID.
- Applies to** [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.
- Prototype** For [DmRecordAdapter](#) and [PDRecordAdapter](#) objects:
Function **ReadById**(*nIndex* As Long, ByVal *vUniqueId*,
 nCategory As Long, *eAttributes* As
 EReordAttributes) As Variant

For PD<PIM>DbHHRecordAdapter objects:
Function **ReadById**(*vUniqueId* as Variant) as Unknown
- Parameters**
- ← *nIndex*
Index of returned record.
 - *vUniqueId*
The unique ID for the record.
 - ← *nCategory*
Category ID of returned record.
 - ← *eAttributes*
Returned record attributes.
- Returns** For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object, returns a Byte array containing the value of the record specified by *vUniqueId*.

For any of the objects representing classic databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a corresponding object (denoted PD<PIM>DbHHRecord) representing the record specified by *vUniqueId*.

Example

```
Dim pUtil as New PDUtility
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Read a record
Dim vUniqueId as Variant
Dim StrID as String
StrID = 12345
vUniqueID = pUtil.StringtoRecordId (StrID)
Dim Index as Long
Dim Category as Long
Dim Attributes ERecordAttributes
Dim RecordData as Variant
RecordData = Adapter.ReadById(Index, vUniqueId, Category, _
    Attributes)
```

See Also [ERecordAttributes](#) constants.

Methods

ReadByIndex

ReadByIndex

- Purpose** Reads a record using its index.
- Applies to** [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.
- Prototype** For [DmRecordAdapter](#) and [PDRecordAdapter](#) objects:
Function **ReadByIndex**(ByVal *nIndex* As Long, *pvUniqueId*, *nCategory* As Long, *eAttributes* As ERecordAttributes) As Variant
For PD<PIM>DbHHRecordAdapter objects:
Function **ReadByIndex**(*nIndex* as Long) as Unknown
- Parameters**
- *nIndex*
Record index.
 - ← *pvUniqueId*
Returned record ID.
 - ← *nCategory*
Category of returned record.
 - ← *eAttributes*
Returned attributes from the [ERecordAttributes](#) constants.
- Returns** For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object, returns a Byte array containing the record data.
For any of the objects representing classic databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a corresponding object (denoted PD<PIM>DbHHRecord) representing the record specified by *nIndex*.

Example

```
Dim pUtil as New PDUtility
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Read a record
Dim UniqueId as Variant
Dim Category as Byte
Dim Attributes as ERecordAttributes
Dim RecordData as Variant
RecordData = Adapter.ReadByIndex(2, UniqueId, Category, _
    Attributes)
Dim StrUniqueId as String
StrUniqueID = pUtil.RecordIdToString(UniqueId)
```

See Also [ERecordAttributes](#) constants.

Methods

ReadColumnValue

ReadColumnValue

Purpose	Reads the specified bytes of a column value from a row in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Function ReadColumnValue (ByVal <i>vRowID</i> , ByVal <i>ColumnID</i> As Long, ByVal <i>DataOffset</i> As Long, ByVal <i>BytesToRead</i> As Long, <i>BytesRemaining</i> As Long, <i>vData</i>) As Long
Parameters	<div><div>→ <i>vRowID</i> The row ID of the row to read.</div><div>→ <i>ColumnID</i> The column ID of the column to read the value of.</div><div>→ <i>DataOffset</i> An offset from the first byte in a column value from which to start retrieving data.</div><div>→ <i>BytesToRead</i> The number of bytes of a column value to retrieve starting from the <i>dataOffset</i> position.</div><div>← <i>BytesRemaining</i> The number of bytes of the column value that remain—that is, the number of bytes after the last one read (<i>DataOffset</i> + <i>BytesToRead</i>) to the end of the column value.</div><div>← <i>vData</i> A Variant byte array that contains the specified bytes of the column value.</div></div>
Returns	An offset to the next unread byte.
Comments	For example, if there are 25 bytes in a column and you want to read 5 bytes (<i>BytesToRead</i>) starting from an offset of 5 (<i>DataOffset</i>), then the return value is 10 bytes and the number of unread bytes is 15 (<i>BytesRemaining</i>).

ReadColumnValues

Purpose	Reads the specified column values from a row in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Function ReadColumnValues (ByVal <i>vRowID</i> , <i>vColumnIDList</i>) As IPSDRowData
Parameters	<div>→ <i>vRowID</i> The row ID of the row to read.</div> <div>→ <i>vColumnIDList</i> Specifies a Variant array of column IDs of the column values to read.</div>
Returns	A PSDRowData object with only the Value property filled in for each column specified in the <i>vColumnIDList</i> parameter.

Methods

ReadDatabaseInfoByName

ReadDatabaseInfoByName

- Purpose** Retrieves information about a database given its name, creator ID, and type.
- Applies to** [PSDDatabaseQuery](#) object.
- Prototype** Function **ReadDatabaseInfoByName** (ByVal *DatabaseName* As String, ByVal *vCreatorID*, ByVal *vType*) As IPSSDatabaseInfo
- Parameters**
- *DatabaseName*
The [database name](#) as a null-terminated string. Do not pass in a null value. See [PSDDatabaseInfo.Name](#).
 - *vCreatorID*
Creator ID of the database. See [PSDDatabaseInfo.CreatorID](#).
 - *vType*
The database type. See [PSDDatabaseInfo.Type](#).
- Returns** A [PSDDatabaseInfo](#) object that contains information about the database.
- Comments** This method returns information about unopened databases, so the following properties of the returned [PSDDatabaseInfo](#) object are not set:
- [DisplayName](#)
 - [Encoding](#)
 - [TableCount](#)

ReadDatabaseInfoByNameCreator

Purpose Returns a [DmDatabaseInfo](#) object for an extended database specified by name and creator ID.

Applies to [DmDatabaseQuery](#) object.

Prototype Function **ReadDatabaseInfoByNameCreator** (ByVal *DatabaseName* As String, ByVal *vCreatorID*) As IDmDatabaseInfo

Parameters → *DatabaseName*
Database name.
→ *vCreatorID*
Creator ID. The unique ID associated with each application and its associated databases on the device.

Returns A [DmDatabaseInfo](#) object that describes the specified database.

Example

```
Dim DbQuery as New DmDatabaseQuery
Dim DbInfo as DmDatabaseInfo
Set DbInfo = DbQuery.ReadDatabaseInfoByNameCreator _
    ("MyDatabase", "MyCr")
```

See Also [DmDatabaseInfo](#) object.

Methods

ReadDatabaseNameList

ReadDatabaseNameList

- Purpose** Returns the names of all databases on the handheld that match the specified creator ID and type.
- Applies to** [PSDDatabaseQuery](#) object.
- Prototype** Function **ReadDatabaseNameList** (ByVal *vCreatorID*,
ByVal *vType*) As Variant
- Parameters** → *vCreatorID*
Creator ID of the database as a Variant—for example, 'adrs'. See [PSDDatabaseInfo.CreatorID](#).
- *vType*
The database type as a Variant—for example, 'DATA'. See [PSDDatabaseInfo.Type](#).
- Returns** A Variant array that lists the names of all the matching databases.
- Comments** This method returns a list of all databases—classic, extended, and schema—that match the specified creator ID and type.

ReadDatabaseNameList

Purpose	Returns a list of non-schema database names that are either in RAM or ROM on the handheld.
Applies to	DmDatabaseQuery objects.
Prototype	Function ReadDatabaseNameList (ByVal <i>bRam</i> As Boolean) As Variant
Parameters	→ <i>bRam</i> RAM or ROM. When True, specifies RAM. When False, specifies ROM.
Returns	A String array containing the database names.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim DbNames as Variant ' Read the RAM name list DbNames = DbQuery.ReadDatabaseNameList (True)</pre>

Methods

ReadDbInfoByCreatorType

ReadDbInfoByCreatorType

- Purpose** Returns a [PDDatabaseInfo](#) object for a creator/type pair.
- Applies to** [PDDatabaseQuery](#) object.
- Prototype** Function **ReadDbInfoByCreatorType** (*vCreator* as Variant, *vDbType* as Variant, *bFirstQuery* as Boolean) as PDDatabaseInfo
- Parameters**
- *vCreator*
Creator ID. The unique ID associated with each database and application on the device. Each conduit is associated with a specific creator ID.
 - *vDbType*
Database Type, 4 characters that can be in either Long (VT_I4) or Little Endian form. BSTR (VT_BSTR), first 4 characters used.
 - *bFirstQuery*
First or subsequent queries. When True, this is the first query, starting at the beginning of the database list. When False, continue from wherever you are.
- Returns** A [PDDatabaseInfo](#) object.
- Comments** ReadDbInfoByCreatorType iterates through the database list returning all databases of a given creator, type, or both. Creator or type may be zero or an empty string. In this case, every database of a given creator or type is returned.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim DbInfo as PDDatabaseInfo
' Find all the applications
Dim bFirst As Boolean, bLoop as Boolean
bFirst = True
bLoop = True
Do While bLoop
    On Error Resume Next
    Set pDbInfo = _
        pDbQuery.ReadDbInfoByCreatorType(0, "appl", bFirst)
    bFirst = False
    If TypeName(pDbInfo) = "Nothing" Then bLoop= False
Loop
```

See Also [PDDatabaseInfo](#) object.

Methods

ReadDbInfoByName

ReadDbInfoByName

Purpose	Returns a PDDatabaseInfo object for a named database.
Applies to	PDDatabaseQuery object.
Prototype	Function ReadDbInfoByName (<i>pName</i> as String) as PDDatabaseInfo
Parameters	→ <i>pName</i> Database name.
Returns	The PDDatabaseInfo object that describes the database named by <i>pName</i> .
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim DbInfo as PDDatabaseInfo Set DbInfo = DbQuery.ReadDbInfoByName ("MemoDB")</pre>
See Also	PDDatabaseInfo object.

ReadDbNameList

Purpose	Returns a list of classic database names that are either in RAM or ROM on the handheld.
Applies to	PDDatabaseQuery objects.
Prototype	Function ReadDbNameList (ByVal <i>bRam</i> As Boolean) As Variant
Parameters	→ <i>bRam</i> RAM or ROM. When True, specifies RAM. When False, specifies ROM.
Returns	A String array containing the database names.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim DbNames as Variant ' Read the RAM name list DbNames = DbQuery.ReadDbNameList (True)</pre>

Methods

ReadFeature

ReadFeature

Purpose	Reads a feature value from the Feature Manager on the handheld.
Applies to	PDSystemAdapter object.
Prototype	Function ReadFeature (<i>vCreator</i> as Variant, <i>nFeature</i> as Long) as Long
Parameters	<div>→ <i>vCreator</i> Creator ID. The unique ID associated with each database and application on the device. Each conduit is associated with a specific creator ID. It is four characters that can be in either Long (VT_I4) or Little Endian form.</div> <div>→ <i>nFeature</i> Feature number.</div>
Returns	The feature value.
Comments	This method retrieves a feature value that is registered with the Feature Manager on the handheld. Features are stored in volatile storage that is erased and re-initialized during system reset. Palm OS and applications can register features using their own creator ID. The contents of features are completely application-specific.
Example	<pre>Dim pSystem as New PDSystemAdapter Dim Feature as Long Feature = pSystem.ReadFeature("AbCd", 2)</pre>

ReadIDList

- Purpose** Retrieves the row IDs of all the rows in a table that are in a set of categories.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** `Function ReadIDList (ByVal TableName As String, CategoryIDList, [ByVal MatchMode As EPSDMatchMode = eDbMatchAny]) As Variant`
- Parameters**
- *TableName*
The name of the table.
 - *CategoryIDList*
An array of category IDs to match.
 - *MatchMode*
The category match mode that this method uses to match the specified category ID list against rows' category memberships. Specify one of the [EPSDMatchMode](#) values.
- Returns** A Variant array of the row IDs of rows that are members of the specified set of categories according to the match mode.

Methods

ReadModifiedIDList

ReadModifiedIDList

- Purpose** Retrieves the row IDs of all the modified rows in a table that are in a set of categories.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** `Function ReadModifiedIDList (ByVal TableName As String, CategoryIDList, [ByVal MatchMode As EPSDMatchMode = eDbMatchAny]) As Variant`
- Parameters**
- *TableName*
The name of the table.
 - *CategoryIDList*
An array of category IDs to match.
 - *MatchMode*
The category match mode that this method uses to match the specified category ID list against modified rows' category memberships. Specify one of the [EPSDMatchMode](#) values.
- Returns** A `Variant` array of the row IDs of modified rows that are members of the specified set of categories according to the match mode.

ReadModifiedRows

- Purpose** Reads the modified rows in a table that match the specified criteria.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** `Function ReadModifiedRows (ByVal TableName As String, vCategoryIDList, [ByVal MatchMode As EPSDMatchMode = eDbMatchAny]) As IPSDRowSet`
- Parameters**
- *TableName*
The name of the table.
 - *vCategoryIDList*
An array of category IDs to match.
 - *MatchMode*
The category match mode that this method uses to match the specified category ID list against modified rows' category memberships. Specify one of the [EPSDMatchMode](#) values.
- Returns** A [PSDRowSet](#) object that contains the set of modified rows that are in the specified table and are members of the specified set of categories according to the match mode.

ReadNext

Purpose	Reads the next record.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	For DmRecordAdapter and PDRecordAdapter objects: Function ReadNext (<i>nIndex</i> As Long, <i>pvUniqueId</i> , <i>nCategory</i> As Long, <i>eAttributes</i> As EReRecordAttributes) As Variant For PD<PIM>DbHHRecordAdapter objects: Function ReadNext () as Unknown
Parameters	\leftarrow <i>nIndex</i> Index of returned record. \leftarrow <i>pvUniqueId</i> Unique ID of returned record. \leftarrow <i>nCategory</i> Returned category. \leftarrow <i>eAttributes</i> Attributes of returned record from the EReRecordAttributes constants.
Returns	For a DmRecordAdapter or PDRecordAdapter object, returns a Byte array containing returned record data. For any of the objects representing classic databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a corresponding object (denoted PD<PIM>DbHHRecord) representing the next record.

Comments This is an iterator method that uses the current iterator index. To begin at the first record, set the [IterationIndex](#) property to zero. If you use this method in conjunction with the [EOF](#) property to read all records in a database, note that [EOF](#) is set *after* the ReadNext () method returns nothing.

Example

```
Dim PUtil as New PDUtility
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter

' Open the database
Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB")

Dim UniqueId as Variant
Dim Index as Long
Dim Category as Long
Dim Attributes as ERecordAttributes
Dim Data as Variant

' Reset the iteration index
Adapter.IterationIndex = 0

' Read the first record
Data = Adapter.ReadNext(Index, UniqueId, Category, _
    Attributes)

' Loop through all the remaining records until reaching EOF
Do While Not Adapter.EOF
    ' Do something with the current record
    ' Read the next record
    Data = Adapter.ReadNext(Index, UniqueId, Category, _
        Attributes)
    Dim Nextoffset as Long
    Dim varray as Variant
    nextoffset = Util.RocordIdtoByteArray (UniqueId, 0, _
        False, vArray)
Loop
```

See Also [EOF](#) property.
[ERecordAttributes](#) constant.

Methods

ReadNextInCategory

ReadNextInCategory

- Purpose** Reads the next record in a category.
- Applies to** [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.
- Prototype** For [DmRecordAdapter](#) and [PDRecordAdapter](#) objects:
Function **ReadNextInCategory**(*nIndex* As Long, *pvUniqueId*, ByVal *nCategory* As Long, *eAttributes* As ERecordAttributes) As Variant
For PD<PIM>DbHHRecordAdapter objects:
Function **ReadNextInCategory**(*nCategory* as Long) as Unknown
- Parameters**
- ← *nIndex*
Index of returned record.
 - ← *pvUniqueId*
Unique ID of returned record.
 - *nCategory*
Category ID of desired record.
 - ← *eAttributes*
Attributes of returned record from the [ERecordAttributes](#) constants.
- Returns** For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object, returns a Byte array containing the value of the next record belonging to the category specified by *nCategory*.

For any of the objects representing classic databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a corresponding object (denoted PD<PIM>DbHHRecord) representing the record specified by *nCategory*.
- Comments** This is an iterator method that uses the current iterator index. To begin at the first record, set the [IterationIndex](#) property to zero.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
' Open the database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
Dim UniqueId as Variant
Dim Index as Long
Dim Attributes as ERecordAttributes
Dim Data as Variant
' Reset the iteration index
Adapter.IterationIndex = 0
' Loop through all the records
Data = Adapter.ReadNextInCategory(Index, UniqueId, 0, _
    Attributes)
Do While Not Adapter.EOF
    ' Do something with the current record
    ' Read the next record
    Data = Adapter.ReadNextInCategory(Index, UniqueId, 0, _
        Attributes)
Loop
```

See Also [ERecordAttributes](#) constants.

Methods

ReadNextModified

ReadNextModified

- Purpose** Reads the next modified record.
- Applies to** [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.
- Prototype** For [PDRecordAdapter](#) objects:
Function **ReadNextModified**(*nIndex* As Long, *pvUniqueId*, *nCategory* As Long, *eAttributes* As ERecordAttributes) As Variant
For PD<PIM>DbHHRecordAdapter objects:
Function **ReadNextModified**() as Unknown
- Parameters**
- ← *nIndex*
Index of returned record.
 - ← *pvUniqueId*
Unique ID of returned record.
 - ← *nCategory*
Returned category ID of returned record.
 - ← *eAttributes*
Attributes of returned record from the [ERecordAttributes](#) constants.
- Returns** For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object, returns a Byte array containing the value of the next modified record.
For any of the objects representing classic databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a corresponding object (denoted PD<PIM>DbHHRecord) representing the next modified record.
- Comments** This is an iterator method that uses the current iterator index. To begin at the first record, set the [IterationIndex](#) property to zero.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
' Open the database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
Dim UniqueId as Variant
Dim Index as Long
Dim Category as Long
Dim Attributes as ERecordAttributes
Dim Data as Variant
' Reset the iteration index
Adapter.IterationIndex = 0
' Loop through all the records
Data = Adapter.ReadNextModified(Index, UniqueId, Category, _
    Attributes)
Do While Not Adapter.EOF
    ' Do something with the current record
    ' Read the next record
    Data = Adapter.ReadNextModified(Index, UniqueId, _
        Category, Attributes)
Loop
```

See Also [ERecordAttributes](#) constants.

Methods

ReadNextModifiedInCategory

ReadNextModifiedInCategory

- Purpose** Reads the next modified record in a category.
- Applies to** [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.
- Prototype** For [DmRecordAdapter](#) and [PDRecordAdapter](#) objects:
Function **ReadNextModifiedInCategory** (*nIndex* As Long, *pvUniqueId*, ByVal *nCategory* As Long, *eAttributes* As ERecordAttributes) As Variant
For PD<PIM>DbHHRecordAdapter objects:
Function **ReadNextModifiedInCategory** (*nCategory* as Long) as Unknown
- Parameters**
- ← *nIndex*
Index of returned record.
 - ← *pvUniqueId*
Unique ID of returned record.
 - *nCategory*
Category ID of record to return.
 - ← *eAttributes*
Attributes from the [ERecordAttributes](#) constants.
- Returns** For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object, returns a Byte array containing record data.
For any of the objects representing databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a corresponding object (denoted PD<PIM>DbHHRecord) representing the next modified record in the category specified by *nCategory*.
- Comments** This is an iterator method that uses the current iterator index. To begin at the first record, set the [IterationIndex](#) property to zero.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
' Open the database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
Dim UniqueId as Variant
Dim Index as Long
Dim Attributes as ERecordAttributes
Dim Data as Variant
' Reset the iteration index
Adapter.IterationIndex = 0
' Loop through all the records
Data = Adapter.ReadNextModifiedInCategory(Index, UniqueId, _
    0, Attributes)
Do While Not Adapter.EOF
    ' Do something with the current record
    ' Read the next record
    Data = Adapter.ReadNextModifiedInCategory(Index, _
        UniqueId, 0, Attributes)
Loop
```

See Also [ERecordAttributes](#) constants.

Methods

ReadNextResource

ReadNextResource

Purpose	Reads the next record in a resource database.
Applies to	PDResourceAdapter object.
Prototype	Function ReadNextResource (<i>nIndex</i> as Long, <i>nType</i> as Long, <i>nId</i> as Long) as Variant
Parameters	<div><div>\leftarrow <i>nIndex</i> Index of returned record.</div><div>\leftarrow <i>nType</i> Type of returned record.</div><div>\leftarrow <i>nId</i> ID of returned record.</div></div>
Returns	A Byte array containing the resource data.
Comments	Uses the current iterator index. To begin at the first resource, set the IterationIndex property to zero.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDResourceAdapter
' Open the database
Set Adapter = DbQuery.OpenRecordDatabase("Application")
Dim Index as Long
Dim Type as Long
Dim Id as Long
Dim Data as Variant
' Reset the iteration index
Adapter.IterationIndex = 0
' Loop through all the resources
Data = Adapter.ReadNextResource(Index, Type, Id)
Do While Not Adapter.EOF
' Do something with the current record
' Read the next resource
Data = Adapter.ReadNextResource(Index, Type, Id)
Loop
```

See Also [PDRecordAdapter](#) object.

ReadResource

Purpose	Reads a resource record by index.
Applies to	PDBResourceAdapter object.
Prototype	Function ReadResource (<i>nIndex</i> as Long, <i>nType</i> as Long, <i>nId</i> as Long) as Variant
Parameters	<div>→ <i>nIndex</i> Resource index of desired record.</div> <div>← <i>nType</i> Resource type of returned record.</div> <div>← <i>nId</i> Resource ID of resource record.</div>
Returns	A Byte array containing the value of the resource record specified by <i>nIndex</i> .

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDBResourceAdapter
Set Adapter =_
DbQuery.OpenResourceDatabase("Saved Preferences")
' Read a record
Dim Type as Long
Dim Id as Long
Dim ResourceData as Variant
ResourceData = Adapter.ReadResource(2, Type, Id)
```

Methods

ReadRow

ReadRow

- Purpose** Reads an entire row—attributes, category memberships, and column values—from a schema database on the handheld.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** Function **ReadRow**(ByVal *RowID*) As IPSDRowData
- Parameters** → *RowID*
The row ID of the row to read.
- Returns** A [PSDRowData](#) object that contains all of the row's data.

ReadRowInfo

Purpose	Retrieves information about a row, but no column values, from a schema database on the handheld.
Applies to	PSDRowAdapter object.
Prototype	Function ReadRowInfo (ByVal <i>vRowID</i>) As IPSDRowData
Parameters	→ <i>vRowID</i> The row ID of the row.
Returns	A PSDRowData object that contains only information about the row but no column values.
Comments	<p>The returned PSDRowData object responds with valid information for only the following properties and methods:</p> <ul style="list-style-type: none">• TableName property• RowID property• CategoryIDList property• IsArchived() method• IsDeleted() method• IsReadOnly property• IsDataModified() method• IsMembershipModified() method• IsPrivate property

Methods

ReadRows

ReadRows

- Purpose** Reads entire rows that match the given criteria from a schema database on the handheld.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** `Function ReadRows (ByVal TableName As String, CategoryIDList, [ByVal MatchMode As EPSDMatchMode = eDbMatchAny]) As IPSDRowSet`
- Parameters**
- *TableName*
The name of the table.
 - *CategoryIDList*
An array of category IDs to match.
 - *MatchMode*
The category match mode that this method uses to match the specified category ID list against the rows' category memberships. Specify one of the [EPSDMatchMode](#) values.
- Returns** A [PSDRowSet](#) object that contains the set of all rows that are in the specified table and are members of the specified set of categories according to the match mode.

ReadRowsByIDList

Purpose	Reads entire rows that are on the specified row ID list from a schema database on the handheld.
Applies to	PSDRowAdapter object.
Prototype	Function ReadRowsByIDList (<i>vRowIDList</i>) As IPSDRowSet
Parameters	→ <i>vRowIDList</i> A Variant array of row IDs.
Returns	A PSDRowSet object that contains the set of all rows whose row IDs are on the specified list.

Methods

ReadSortInfoBlock

ReadSortInfoBlock

Purpose	Reads a record database's sort info block.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Function ReadSortInfoBlock () as Variant
Parameters	None.
Returns	A Byte array containing the sort info block.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Read the SortInfo block Dim vSortInfo as Variant vSortInfo = Adapter.ReadSortInfoBlock</pre>

ReadUniqueIdList

Purpose	Creates a list of unique IDs in record index order.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Function ReadUniqueIdList (ByVal <i>nFirstIndex</i> As Long, <i>nRead</i> As Long) As Variant
Parameters	\rightarrow <i>nFirstIndex</i> Beginning index. \leftrightarrow <i>nRead</i> Before the call, the number of IDs to read. After the call, the number of IDs that were returned.
Returns	An array of unsigned Longs containing the unique IDs. Also returns the number of elements read in <i>nRead</i> .
Comments	The Variant is a usable array. Index the variable for each value to set a Long array to the variant. If <i>nFirstIndex</i> and <i>nRead</i> specify an illegal range, the request is truncated. See “ Miscellaneous Changes ” on page 594 for details on a related problem fixed in the COM Sync module in CDK 6.0.

Methods

ReadUniqueIdList

Example

```
Dim pArray1 as Variant
Dim pArray2 () as Long
Dim nRead as Long
Dim UniqueId as Long
Dim Idx as Long
Dim pAdapter As PRecordAdapter
nRead = 10
pArray1 = pAdapter.ReadUniqueIdList (0, nRead)
    ' Alt #1
For Idx = 0 to nRead - 1
    UniqueId = pArray1 (Idx)
Next
    ' Alt #2
pArray2 = pArray1
For Idx = 0 to nRead - 1
    UniqueId = pArray2 (Idx)
Next
```

RebootSystem

Purpose	Sends a request to soft-reset the handheld at the end of the HotSync operation.
Applies to	PDSYSTEMAdapter object.
Prototype	Sub RebootSystem ()
Parameters	None.
Returns	None.
Example	<pre>Dim pSystem as New PDSYSTEMAdapter ' Reboot pSystem.RebootSystem</pre>

Methods

RecordIdToByteArray

RecordIdToByteArray

Purpose	Converts a record ID to a Byte array.
Applies to	PDUtility object.
Prototype	Function RecordIdToByteArray (<i>vRecordId</i> as Variant, <i>nOffset</i> as Long, <i>bSwap</i> as Boolean, <i>vData</i> as Variant) as Long
Parameters	<div><div>→ <i>vRecordId</i> Record ID to convert.</div><div>→ <i>nOffset</i> Offset from beginning of Byte array where <i>vRecordId</i> is to be inserted.</div><div>→ <i>bSwap</i> If True, this method swaps the bytes before returning <i>vData</i>.</div><div>↔ <i>vData</i> Byte array used for insertion.</div></div>
Returns	The next offset in the Byte array.
Comments	This method converts a record ID into a Byte array. You can use the Byte array format to read/write the record ID from and to a binary file. Palm OS record IDs are long integers but may change in the future. PalmSource, Inc. strongly recommend that you use the PDUtility methods to convert record IDs from and to Byte array and String formats.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim pUtil as New PDUtility
Dim Adapter as PDRecordAdapter
' Open the database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
Dim UniqueId as Variant
Dim Index as Long
Dim Category as Long
Dim Attributes as ERecordAttributes
Dim Data as Variant
' Reset the iteration index
Adapter.IterationIndex = 0
Data = Adapter.ReadNext(Index, UniqueId, Category, _
    Attributes)
Dim vArray as Variant
NextOffset = pUtil.RecordIdToByteArray(UniqueId, 0, _
    False, vArray)
```

Methods

RecordIdToString

RecordIdToString

Purpose	Converts record ID to a readable String.
Applies to	PDUtility object.
Prototype	Function RecordIDToString (<i>vRecordId</i> as Variant) as String
Parameters	\leftarrow <i>vRecordId</i> Unique ID of record.
Returns	A string (BSTR) containing returned record data in readable string format.
Comments	This method is provided to convert a record ID into a string. You can subsequently use the string to read/write the record ID from/to a text file. Currently Palm OS record IDs are long integers. This may change in future. PalmSource, Inc. strongly recommends using PDUtility methods such as these to convert record IDs from/to Byte array/String formats.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim pUtil as New PDUtility
Dim Adapter as PDRecordAdapter
' Open the database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
Dim UniqueId as Variant
Dim Index as Long
Dim Category as Long
Dim Attributes as ERecordAttributes
Dim Data as Variant
' Reset the iteration index
Adapter.IterationIndex = 0
Data = Adapter.ReadNext(Index, UniqueId, Category, _
    Attributes)
Dim strRecordId as String
strRecordId = pUtil.RecordIdToString(UniqueId)
```

Refresh

Purpose	Reinitializes this object from its source, discarding any changes in the cache.
Applies to	DmCategories , DmDatabaseInfo , PDCategories , PDDatabaseInfo objects.
Prototype	Sub Refresh ()
Parameters	None.
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim DbInfo as PDDatabaseInfo Set DbInfo = DbQuery.ReadDatabaseInfoByName("MemoDB") _ ' Reread the database information DbInfo.Refresh</pre>
----------------	---

Methods

RefreshConduitInfo

RefreshConduitInfo

Purpose	Requests that HotSync Manager reload information about all registered conduits.
Applies to	PDHotSyncUtility object.
Prototype	Sub RefreshConduitInfo ()
Parameters	None.
Returns	None.
Errors	eHotSyncNotFound HotSync Manager is not running.
Comments	<p>HotSync Manager versions <i>earlier than 6.0</i> must be refreshed or restarted after registering a conduit. <i>Versions 6.0 and later</i> automatically refresh their lists so that calling this method is unnecessary.</p> <p>If you register a conduit while HotSync Manager is running, your installer can call this method to make HotSync Manager reload the conduit configuration entries and recognize your newly registered conduit. If your installer changes other settings not related to a conduit (HotSync Manager communication settings, backup conduit, and so on), this method does not reload those settings; use RestartHotSyncMgr() instead.</p>
See Also	RestartHotSyncMgr() , RegisterConduit() , UnregisterConduit() methods

RegisterConduit

Purpose	Registers a conduit based on the information provided in a PDConduitInfo object.
Applies to	PDCondMgr , PDSysCondMgr objects.
Prototype	Sub RegisterConduit (<i>ConduitInfo</i> As PDConduitInfo)
Parameters	→ <i>ConduitInfo</i> A PDConduitInfo object specifying the conduit you want to register.
Returns	None.
Errors	<p>eAlreadyExists Another conduit is already registered with this creator ID.</p> <p>eCantCreateConduit The conduit could not be registered with HotSync Manager.</p> <p>eCantSetValue One or more conduit configuration entries could not be set.</p> <p>eInvalidID The specified conduit creator ID is not valid.</p> <p>eLocalMemory Not enough memory on the desktop to perform the requested operation.</p> <p>eParamError Parameters were not passed correctly.</p> <p>eRegistryFailure Unable to access the conduit configuration entries.</p>
Comments	<p>This method registers a conduit either for the current Windows user or the system, depending on whether it is called for a PDCondMgr or a PDSysCondMgr object.</p> <p>Only <i>one</i> system and user conduit can be registered with a given creator ID. If another system or user conduit is already registered with the creator ID you specify in PDConduitInfo, this method generates an eAlreadyExists error. Note that you can register a user (or system) conduit with the same creator ID used by another system (or user) conduit. For more information, see “User- and System-registered Conduits and Notifiers” on page 78 in <i>Introduction to Conduit Development</i>.</p>

Methods

RegisterConduit

IMPORTANT: For HotSync Manager versions *earlier than 6.0*: after registering a conduit, you must call either [RefreshConduitInfo\(\)](#) or [RestartHotSyncMgr\(\)](#) (or exit and relaunch HotSync Manager manually) for HotSync Manager to recognize your newly registered conduit. Versions 6.0 and later do not require this.

Example

```
Private Function RegisterConduit(strConduitCreatorID As _
    String) As Boolean

    Dim CreatorID As Long
    Dim PDCondMgr As New PDCondMgr
    Dim PConduitInfo As New PDConduitInfo
    Dim RetrievePDConduitInfo As New PDConduitInfo
    Dim CreatorIDExists As Boolean

    On Error GoTo ErrorHandler

    CreatorIDExists = True
    CreatorID = _
        PDCondMgr.StringToCreatorID(strConduitCreatorID)
    ' Make sure a valid CreatorID could be retrieved from the
    ' string.
    If CreatorID = 0 Then
        MsgBox "CreatorID '" & strConduitCreatorID & "' _
            was invalid.", vbCritical, "Invalid CreatorID"
        Exit Function
    Else
        Set RetrievePDConduitInfo = _
            PDCondMgr.GetConduitInfo(CreatorID)
    End If

    ' Check whether a conduit with the specified CreatorID
    ' currently exists.
    If CreatorIDExists Then
        If MsgBox("A conduit with CreatorID '" & _
            strConduitCreatorID & "' already exists." & _
            " Do you want to remove it ?", vbYesNo + _
            vbQuestion, "Remove Conduit") = vbYes Then
            Call PDCondMgr.UnregisterConduit(CreatorID)
        Else
            Exit Function
        End If
    End If
End If
```

```
Set RetrievePDConduitInfo = Nothing

' Set the conduit entries
With PConduitInfo
    .COMClassID = "c:\winnt\system32\calc.exe"
    .CreatorID = CreatorID
    .DeskTopDataDirectory = "DeskTopDataDirectory"
    .HandHeldDB = "HandHeldDB"
    .DeskTopDataFile = "DeskTopDataFile"
    .DisplayName = "DisplayName"
    .Priority = 2
End With

Call PDCondMgr.RegisterConduit(PConduitInfo)

' Sample to retrieve the conduit info and display one of
' the entries.
Set RetrievePDConduitInfo = _
    PDCondMgr.GetConduitInfo(CreatorID)
MsgBox "COM Conduit '" & _
    TitleRetrievePDConduitInfo.DisplayName & _
    "' was successfully registered.", vbInformation, _
    "Information"

RegisterConduit = True
Exit Function

ErrorHandler:
' The specified CreatorId is not valid or not found
If Err.Number - vbObjectError = 8223 Then
    Err.Clear
    CreatorIDExists = False
    Resume Next
Else
    MsgBox "Conduit registration failed." & vbCr & _
        "Error Detail : " & Err.Description, vbCritical, _
        "Conduit Registration Error : " & Err.Number
End If
Exit Function
End Function
```

See Also [PConduitInfo](#) object
[UnregisterConduit\(\)](#), [RefreshConduitInfo\(\)](#),
[RestartHotSyncMgr\(\)](#) methods

RegisterIC

Purpose	Registers an install conduit based on the information provided in a PDInstallConduitInfo object.
Applies to	PDInstallConduit object.
Prototype	Sub RegisterIC (<i>ICInfo</i> As PDInstallConduitInfo)
Parameters	→ <i>ICInfo</i> A PDInstallConduitInfo object for the install conduit you want to register.
Returns	None.
Errors	<div>eAlreadyExists Another install conduit is already registered with this unique ID.</div> <div>eCantCreateConduit The install conduit could not be registered with HotSync Manager.</div> <div>eCantSetValue A conduit configuration entry could not be set.</div> <div>eInvalidInstallID The specified unique ID is not valid.</div> <div>eLocalMemory Not enough memory on the desktop to perform the requested operation.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Comments	Only <i>one</i> install conduit can be registered with a given unique ID. Fill in the fields of a PDInstallConduitInfo object and call this method to register this install conduit with HotSync Manager. If another install conduit is already registered with the unique ID you specify in PDInstallConduitInfo , this method generates an eAlreadyExists error.

IMPORTANT: After registering an install conduit, you must call either [RefreshConduitInfo\(\)](#) or [RestartHotSyncMgr\(\)](#) (or exit and relaunch HotSync Manager manually) for HotSync Manager to recognize your newly registered install conduit.

Example

```
Dim PInstall As New PDInstallConduit
Dim PInfo As New PDInstallConduitInfo

PInfo.Directory = "Install"
PInfo.Extension = "All Files (*.*)|*.*"
PInfo.Module = "MyInstallConduit.dll"
PInfo.Name = "Test Install"
PInfo.UniqueId = 1952805748

Call PInstall.RegisterIC(PInfo)
Call PInstall.UnregisterIC(1952805748)
```

See Also

[PDInstallConduitInfo](#) object
[UnregisterIC\(\)](#), [RefreshConduitInfo\(\)](#),
[RestartHotSyncMgr\(\)](#) method

Methods

RegisterNotifier

RegisterNotifier

Purpose	Registers a notifier with HotSync Manager.
Applies to	PDCondMgr object.
Prototype	Sub RegisterNotifier (<i>NotifierPath</i> As String)
Parameters	→ <i>NotifierPath</i> The full path and filename of the notifier you want to register.
Returns	None.
Errors	eAlreadyInstalled A notifier with this path is already registered. eParamError Parameters were not passed correctly. eRegistryFailure Unable to access the conduit configuration entries.
Comments	IMPORTANT: After registering a notifier, you must call RestartHotSyncMgr() (or exit and relaunch HotSync Manager manually) for HotSync Manager to recognize your newly registered notifier.
Example	<pre>Dim PDCondMgr As New PDCondMgr Call PDCondMgr.RegisterNotifier("C:\CDK403\C++\Samples_ PDNotify\Debug\PdN20d.dll") Call PDCondMgr.ModifyNotifier("C:\CDK403\C++\Samples_ PDNotify\Debug\PdN20d.dll", "C:\PdN20d.dll") Call PDCondMgr.UnregisterNotifier("C:\CDK403\C++\Samples_ PDNotify\Debug\PdN20d.dll")</pre>
See Also	UnregisterNotifier() , ModifyNotifier() , RestartHotSyncMgr() methods

Remove

Purpose	Deletes the specified record from an open classic or extended record database on the handheld.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Sub Remove (ByVal <i>varUniqueId</i>)
Parameters	→ <i>varUniqueId</i> ID of the record to remove.
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Remove the first record Dim UniqueId as Variant Dim Category as Long Dim Attributes as ERecordAttributes Adapter.ReadByIndex0, UniqueId, Category, Attributes Adapter.Remove UniqueId</pre>
----------------	--

Methods

RemoveAllResources

RemoveAllResources

Purpose	Deletes all resources from an open resource database on the handheld.
Applies to	PDResourceAdapter object.
Prototype	Sub RemoveAllResources ()
Parameters	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDResourceAdapter Set Adapter = DbQuery.OpenResourceDatabase("Application") ' Remove all resource records Adapter.RemoveAllResources</pre>
----------------	---

RemoveAllSecretRowsInTable

Purpose	Removes all of the secret rows in a table in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Sub RemoveAllSecretRowsInTable (ByVal <i>TableName</i> As String)
Parameters	→ <i>TableName</i> The name of the table.
Returns	None.
Comments	This method destroys all of the data in the affected rows.

Methods

RemoveCategory

RemoveCategory

Purpose	Removes a category from a schema database.
Applies to	PSDCategoryAdapter object.
Prototype	Sub RemoveCategory (ByVal <i>CategoryID</i> As Long)
Parameters	→ <i>CategoryID</i> Specifies the category ID of the category to remove.
Returns	None.
Comments	This method removes the membership in this category from all rows, but otherwise leaves these rows intact.

RemoveCategoryFromAllRows

Purpose	Removes all matching rows from a specified list of categories in this schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub RemoveCategoryFromAllRows (<i>vCategoryIDList</i> , ByVal <i>MatchMode</i> As EPSDMatchMode)
Parameters	<div>→ <i>vCategoryIDList</i> A Variant array of category IDs to match.</div> <div>→ <i>MatchMode</i> The category match mode that this method uses to match the specified category ID list against rows' category memberships. Specify one of the EPSDMatchMode values.</div>
Returns	None.
Comments	Rows whose category memberships match the categories specified in <i>CategoryIDList</i> are removed from those categories.

Methods

RemoveCategoryMembership

RemoveCategoryMembership

Purpose	Removes a row from all of the categories on a list.
Applies to	PSDRowAdapter object.
Prototype	Sub RemoveCategoryMembership (ByVal <i>vRowID</i> , <i>CategoryIDList</i>)
Parameters	<div><div>→ <i>vRowID</i> The row ID of the row.</div><div>→ <i>CategoryIDList</i> An array of category IDs.</div></div>
Returns	None.

RemoveColumnCustomProperty

Purpose	Removes a custom property from a table column in this schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub RemoveColumnCustomProperty (ByVal <i>TableName</i> As String, ByVal <i>ColumnID</i> As Long, ByVal <i>PropertyID</i> As Integer)
Parameters	<div>→ <i>TableName</i> The name of the table.</div> <div>→ <i>ColumnID</i> The column ID of the column.</div> <div>→ <i>PropertyID</i> The property ID of the custom column property. Valid values range from 0x05 to 0x0A.</div>
Returns	None.

Methods

RemoveColumns

RemoveColumns

Purpose	Removes column definitions from this table given a list of column IDs.
Applies to	PSDTable object.
Prototype	Sub RemoveColumns (<i>vColumnIDList</i>)
Parameters	→ <i>vColumnIDList</i> A Variant array of column IDs.
Returns	None.

RemoveDatabase

Purpose	Deletes a classic or extended database on the handheld.
Applies to	DmDatabaseQuery , PDDatabaseQuery object.
Prototype	Sub RemoveDatabase (ByVal <i>pName</i> As String)
Parameters	→ <i>pName</i> Name of the database to delete.
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery ' Remove the Memo database DbQuery.RemoveDatabase ("MemoDB")</pre>
----------------	--

Methods

RemoveFileFromHHQueue

RemoveFileFromHHQueue

Purpose	Removes a file from the queue of files that are to be installed in primary storage on a user's <i>handheld</i> .
Applies to	PDInstall object.
Prototype	Sub RemoveFileFromHHQueue (<i>UserID</i> As Long, <i>FileName</i> As String)
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>FileName</i> The name of the file to remove (include no path).</div>
Returns	None.
Errors	<div>eFailedToDelete This method failed to remove the specified install file because, for example, the file does not exist.</div> <div>eInvalidPath The path of the slot-install directory is longer than 256 characters and cannot be retrieved.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method removes the specified file from the user's handheld-install directory that is associated with files of the type to remove.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetAllQueuedHHFiles() , GetAllQueuedHHFilesOfType() , InstallFileToHH() methods

RemoveFileFromSlotQueue

Purpose	Removes a file from the queue of files that are to be installed in secondary storage in an expansion <i>slot</i> of a user's handheld.
Applies to	PDInstall object.
Prototype	Sub RemoveFileFromSlotQueue (<i>UserID</i> As Long, <i>SlotID</i> As Long, <i>FileName</i> As String)
Parameters	<div>→ <i>UserID</i> A unique ID to specify the user you want to reference.</div> <div>→ <i>SlotID</i> The ID of the slot from whose directory to remove a file. To get slot IDs, use PDUserData's GetSlotList() method.</div> <div>→ <i>FileName</i> The name of the file to remove (include no path).</div>
Returns	None.
Errors	<div>eFailedToDelete This method failed to remove the specified install file because, for example, the file does not exist.</div> <div>eInvalidPath The path of the slot-install directory is longer than 256 characters and cannot be retrieved.</div> <div>eParamError Parameters were not passed correctly.</div>
Comments	This method removes a file on the desktop computer that was queued in a slot-install directory for a given user. This method accepts all file types.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetSlotList() , GetAllQueuedSlotFiles() , InstallFileToSlot() methods

Methods

RemoveResource

RemoveResource

Purpose	Deletes a resource from an open resource database on the handheld.
Applies to	PDResourceAdapter object.
Prototype	Sub RemoveResource (<i>vType</i> as Variant, <i>nId</i> as Long)
Parameters	<div>→ <i>vType</i> Four-byte resource type that can be passed in either Long (VT_I4) or Little Endian form.</div> <div>→ <i>nId</i> Resource ID.</div>
Returns	None.

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDResourceAdapter
Set Adapter = DbQuery.OpenResourceDatabase("Application")
' Remove the first resource
Dim Type as Long
Dim Id as Long
Adapter.ReadResource (0, Type, Id)
Adapter.RemoveResource (Type, Id)
```

RemoveRow

Purpose	Removes a row from a schema database.
Applies to	PSDRowAdapter object.
Prototype	Sub RemoveRow (ByVal <i>vRowID</i>)
Parameters	→ <i>vRowID</i> The row ID of the row.
Returns	None.
Comments	This method destroys all of the data in the specified row. Contrast this method with DeleteRow() .

Methods

RemoveSet

RemoveSet

Purpose	Deletes a set of records in a classic or extended database.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Sub RemoveSet (ByVal <i>eSetType</i> As ERemoveSetType, [ByVal <i>nCategory</i> As Long = 255])
Parameters	→ <i>eSetType</i> The type of records to delete specified by the the ERemoveSetType constants. → <i>nCategory</i> Optional category for options requiring it.
Returns	None.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Remove all deleted records Adapter.RemoveSet (eRemoveAllDeletedRecords)</pre>
See Also	ERemoveSetType constants.

RemoveTable

Purpose	Removes a table from this schema database.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub RemoveTable (ByVal <i>TableName</i> As String)
Parameters	→ <i>TableName</i> The name of the table.
Returns	None.
Comments	If any rows belong to the specified table, then this method does not remove the table but instead returns an error.

Methods

RemoveUserTemporarySyncPreferences

RemoveUserTemporarySyncPreferences

- Purpose** Removes the specified conduit's temporary synchronization preferences for the specified user ID.
- Applies to** [PDUserData](#) object.
- Prototype** Sub **RemoveUserTemporarySyncPreferences** (*dwUserId* As Long, *ConduitCreatorId* As Long)
- Parameters**
- *dwUserId*
A unique ID to specify the user to reference in the users data store.
 - *ConduitCreatorId*
The creator ID of the conduit you want to remove the preferences of.
- Returns** None.
- Errors**
- eInvalidUser**
dwUserId is an invalid number.
 - eNoCorePath**
No path to find the users data store was found.
 - eNoUsers**
The users data store exists, but contains no information.
 - eOtherUDErr**
No users data store was found or another method or program is accessing the user data store.
 - eUDSemaphoreError**
Another method or program is accessing the user data store.
 - eUDUnableToCreate**
Creating a new users data store failed because of a file error.

Comments This method clears the temporary synchronization preferences for the specified conduit so that the action set in the permanent synchronization preferences will be taken during the next HotSync operation. The result is the same as if the user had never clicked HotSync Manager's **Custom > Change** option and altered the conduit's temporary synchronization preferences.

NOTE: [RemoveUserTemporarySyncPreferences\(\)](#) clears only *one* conduit's temporary synchronization preferences. Contrast it with [DeleteUserTemporarySyncPreferences\(\)](#), which clears the temporary preferences for *all* the user's conduits.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetConduitList\(\)](#), [DeleteUserTemporarySyncPreferences\(\)](#), [GetUserTemporarySyncPreferences\(\)](#), [SetUserTemporarySyncPreferences\(\)](#), [DeleteUserPermanentSyncPreferences\(\)](#), [GetUserPermanentSyncPreferences\(\)](#), [SetUserPermanentSyncPreferences\(\)](#) methods

Methods

Rename

Rename

Purpose	Renames a closed file or directory on an expansion card.
Applies to	PDVFSVolumeManager object.
Prototype	Sub Rename (<i>OriginalName</i> As String, <i>NewName</i> As String)
Parameters	<div>→ <i>OriginalName</i> The full path of the file or directory to rename.</div> <div>→ <i>NewName</i> The filename or the directory name of the new file/directory (not a full path).</div>
Returns	None.
Errors	<div>eCommunications Communications with the handheld has either not been initialized or has been lost.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eVFSBadName Invalid filename or path.</div> <div>eVFSFileAlreadyExists A file or directory with this name exists in this location already.</div> <div>eVFSFileNotFound The file or directory was not found in the specified path.</div> <div>eVFSFilePermissionDenied Permission denied to perform requested operation because the file or directory is read-only.</div> <div>eVFSFileStillOpen The file is still open—for example, trying to rename an open file.</div> <div>eVFSInvalidOperation A file system is not present.</div> <div>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</div>

eVFSNotOpen

The file system library on the handheld necessary for this call has not been installed or has not been opened.

eVFSVolumeBadRef

The volume reference number is invalid because, for example, the volume has not been mounted.

eVFSVolumeFull

There is insufficient space left on the volume.

Comments This method cannot be used to move a file to another location within the file system because it accepts only file or directory names, not full paths. This method returns eVFSBadName if either OriginalName or NewName is invalid.

See Also [Close\(\)](#), [CreateFile\(\)](#), [CreateDirectory\(\)](#), [Delete\(\)](#) methods.

Methods

RenameCategory

RenameCategory

Purpose	Changes the name of a category in a schema database.
Applies to	PSDCategoryAdapter object.
Prototype	Sub RenameCategory (ByVal <i>CategoryID</i> As Long, ByVal <i>NewName</i> As String)
Parameters	<div>→ <i>CategoryID</i> Specifies the category ID of the category to rename.</div> <div>→ <i>NewName</i> Specifies a new category name.</div>
Returns	None.

ResetAllModifiedFlags

Purpose	Resets the modified (dirty) flag of all records in the open classic or extended record database on the handheld.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Sub ResetAllModifiedFlags ()
Parameters	None.
Returns	None.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") Adapter.ResetAllModifiedFlags</pre>

Methods

ResetComm

ResetComm

Purpose	Resets the communication methods of the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub ResetComm ()
Parameters	None.
Returns	None.
Errors	eHotSyncNotFound HotSync Manager is not running.
Comments	This method causes HotSync Manager to change stored settings so that, the next time HotSync Manager is started, only the local serial communication method is enabled; modem and network methods are disabled.
See Also	StartHotSyncMgr() , RestartHotSyncMgr() , SetCommStatus() methods

ResetDirtyFlags

Purpose	Resets all the category Dirty flags to False.
Applies to	DmCategories , PDCategories objects.
Prototype	Sub ResetDirtyFlags ()
Parameters	None.
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Get a categories object Dim Categories as PDCategories Set Categories = Adapter.PDCategories Categories.ResetDirtyFlags</pre>
----------------	--

Methods

RestartHotSyncMgr

RestartHotSyncMgr

Purpose	Restarts the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub RestartHotSyncMgr (<i>options</i> As Long)
Parameters	→ <i>options</i> A long value that is all the OR-ed flags that specify how you want to restart HotSync Manager. Use the constants described in “ HotSync Manager Start Options Constants ” on page 572.
Returns	None.
Errors	eUnableToStart This method cannot start the HotSync Manager application.
Comments	If HotSync Manager is running, this method closes and restarts it. If you make changes to any HotSync Manager settings (other than registering a conduit), you must restart HotSync Manager for it to recognize the change. To recognize only newly registered conduits, you can use RefreshConduitInfo() instead, though RestartHotSyncMgr() causes HotSync Manager to reread all configuration entries, including those of newly registered conduits.

NOTE: Whenever you change any of the configuration entries, HotSync Manager versions earlier than 6.0 require that you call either `RestartHotSyncMgr()` to restart HotSync Manager to recognize all but conduit configuration changes or [RefreshConduitInfo\(\)](#) to recognize a conduit configuration change.

However, HotSync Manager versions 6.0 and later automatically discover changes to conduit configuration information without you calling these functions. To recognize other changes (HotSync Manager communication settings, backup conduit, and so on), you must still call `RestartHotSyncMgr()`.

See Also [RefreshConduitInfo\(\)](#), [StartHotSyncMgr\(\)](#), [TerminateHotSyncMgr\(\)](#) methods

RestoreSecurityData

Purpose	Restores vault databases from the desktop to the handheld.
Applies to	PSDDatabaseQuery , PSDDatabaseUtilities objects.
Prototype	Sub RestoreSecurityData (ByVal <i>SourceDir</i> As String)
Parameters	<div>→ <i>SourceDir</i> The path of the directory that holds image files of vault databases to restore. Specify a null-terminated string; do not pass in a null value. The directory must contain one or more vault databases previously backed up by a call to BackupSecurityData(). It can also contain other files, but only if they do not use the same filename extension as vaults.</div>
Returns	None.
Comments	After a handheld is hard-reset, vaults must be restored to the handheld <i>before</i> all other databases and in a specific order so that the handheld Authorization Manager allows other secure databases to be restored afterwards. This method restores all vault databases from the specified directory and in the order mandated by the Authorization Manager. If the vault already exists on the handheld, this method deletes it from the handheld and restores the vault from the desktop.
Compatibility	Palm OS version: Palm OS Cobalt, version 6.0 or later.

Methods

Save

Save

Purpose	Writes the category information into the application info block of this database and writes the application info block to the handheld.
Applies to	DmCategories , PDCategories objects.
Prototype	Sub Save ()
Parameters	None.
Returns	None.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Get a category object Dim Category as PDCategories Set Category = Adapter.PDCategories ' Reset the dirty flags and save Category.ResetDirtyFlags Category.Save</pre>
Comments	Merges category information into the application info block. Existing data in application info block beyond the category information is left unchanged.

Seek

Purpose	Sets the position from which to read or write within an open file on an expansion card.
Applies to	PDVFSFileManager object.
Prototype	Sub Seek (<i>origin</i> As EPDFFileOrigin, <i>offset</i> As Long)
Parameters	<p>→ <i>origin</i> The origin to use when calculating the new position. The <i>offset</i> parameter indicates the desired new position relative to this origin, which must be one of the EPDFFileOrigin constants.</p> <p>→ <i>offset</i> The offset, either positive or negative, from the origin to which to set the current position. A value of zero positions you at the specified origin.</p>
Returns	None.
Errors	<p>eParamError Parameters were not passed correctly.</p> <p>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</p> <p>eVFSInvalidOperation A file system is not present.</p> <p>eVFSIsADirectory This operation can be performed only on a regular file, not a directory.</p> <p>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</p> <p>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</p> <p>eVFSVolumeBadRef The volume reference number is invalid because, for example, the volume has not been mounted.</p>

Methods

Seek

Comments This method operates only on files and cannot be used with directories.

If the resulting position of the file pointer would be beyond the end of the file, this method sets the position to the end of the file. Similarly, if the resulting position of the file pointer would be before the beginning of the file, this method sets the position to the beginning of the file.

See Also [Tell\(\)](#), [Read\(\)](#), [Write\(\)](#), [Open\(\)](#) methods.
[EPDFFileOrigin](#) constants.

SetBackupConduit

Purpose	Sets the filename of the HotSync Manager backup conduit .
Applies to	PDCondMgr , PDSystemCondMgr objects.
Prototype	Sub SetBackupConduit (<i>BackupConduit</i> As String)
Parameters	→ <i>BackupConduit</i> The full path or filename of the backup conduit.
Returns	None.
Errors	<i>eCantSetValue</i> This conduit configuration entry could not be set. <i>eParamError</i> Parameters were not passed correctly. <i>eRegistryFailure</i> Unable to access the conduit configuration entries.
Comments	<p>This method establishes the value of the HotSync Manager\BackupConduit configuration entry used by HotSync Manager for the current Windows user or for the system, depending on whether this method is called for a PDCondMgr or a PDSystemCondMgr object.</p> <p>If you specify a filename that this method cannot find (or a Null filename), this method leaves the filename unchanged and generates no error. Before calling this method, you must check that the file exists where this method can find it.</p>
Example	<pre>Dim PDCondMgr As New PDCondMgr Call PDCondMgr.SetBackupConduit ("C:\BackupCnd.dll")</pre>
See Also	GetBackupConduit() method

Methods

SetCategoryMembership

SetCategoryMembership

- Purpose** Adds a row to all the categories on a list.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** Sub **SetCategoryMembership** (ByVal *vRowID*,
CategoryIDList)
- Parameters**
- *vRowID*
The row ID of the row.
 - *CategoryIDList*
An array of category IDs. This method adds the row to all of these categories.
- Returns** None.

SetColumnCustomProperty

Purpose	Sets the value of a custom column property in a table.
Applies to	PSDDatabaseAdapter object.
Prototype	Sub SetColumnCustomProperty (ByVal <i>TableName</i> As String, ByVal <i>ColumnID</i> As Long, ByVal <i>PropertyID</i> As Integer, ByVal <i>vPropertyValue</i>)
Parameters	<div><div>→ <i>TableName</i> The name of the table.</div><div>→ <i>ColumnID</i> The column ID of the column.</div><div>→ <i>PropertyID</i> The property ID of the custom column property. Valid values range from 0x05 to 0x0A.</div><div>→ <i>vPropertyValue</i> A byte array containing the value of the custom column property to set.</div></div>
Returns	None.

Methods

SetCommStatus

SetCommStatus

Purpose	Sets the status of the HotSync Manager application's communication types.
Applies to	PDHotSyncUtility object.
Prototype	Sub SetCommStatus (<i>type</i> As EPDHSConnectionType, <i>status</i> As EPDHSConnectionStatus)
Parameters	<div><div>→ <i>type</i> The communication type of which to retrieve the status. Use one of the values defined by the EPDHSConnectionType constant.</div><div>→ <i>status</i> The new status to set for this communication type. Use one of the values defined by the EPDHSConnectionStatus constant.</div></div>
Returns	None.
Errors	<div>eInvalidConnType The specified HotSync Manager connection type is not one defined by the EPDHSConnectionType constant.</div> <div>eInvalidType The specified HotSync Manager connection type status is not one defined by the EPDHSConnectionStatus constant.</div>
Comments	When HotSync Manager is running, this method requests that it change the status of the specified communication type. If HotSync Manager is not running, this method configures its stored preferences.
See Also	GetCommStatus() , ResetComm() , RestartHotSyncMgr() methods. EPDHSConnectionType , EPDHSConnectionStatus constants.

SetDWORDData

Purpose	Sets a DWORD configuration entry value for the specified conduit.
Applies to	PDCondMgr , PDInstallConduit , PDSysCondmgr objects.
Prototype	PDCondMgr and PDSysCondmgr : Sub SetDWORDData (<i>CreatorID</i> As Long, <i>Name</i> As String, <i>Data</i> As Long) PDInstallConduit : Sub SetDWORDData (<i>UniqueId</i> As Long, <i>Name</i> As String, <i>Data</i> As Long)
Parameters	<div>→ <i>CreatorID</i> If a PDCondMgr or PDSysCondmgr object, this parameter is the creator ID of the conduit you want to set a value for.</div> <div>→ <i>UniqueId</i> If a PDInstallConduit object, this parameter is the unique ID of the install conduit you want to set a value for.</div> <div>→ <i>Name</i> The name of the DWORD configuration entry you want to set.</div> <div>→ <i>Data</i> The DWORD value you want to set the specified entry to.</div>
Returns	None.
Errors	<div>eInvalidID The specified conduit creator ID is not valid.</div> <div>eNoSuchConduit The specified install conduit does not exist.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>

Methods

SetDWORDData

Comments This is a general purpose method that allows you to create or change a configuration entry by name. If the conduit you want is a standard synchronization conduit (most are), specify the creator ID in the first parameter. If the conduit you want is an [install conduit](#), specify the unique ID in the first parameter.

This method sets information about a conduit that is registered either for the current Windows user or the system, depending on whether it is called for a [PDCondMgr](#) or a [PDSystemCondMgr](#) object.

Example

```
Dim ExtraInfo As Long
Dim CreatorId As Long
Dim PCondMgr As New PDCondMgr

' Set the value for a custom field called "ExtraInfo"
' to 10.
CreatorId = PCondMgr.StringToCreatorID("memo")

Call PCondMgr.SetDWORDData(CreatorId, "ExtraInfo", 10)
ExtraInfo = PCondMgr.GetDWORDData(CreatorId, "ExtraInfo")
```

See Also [GetDWORDData\(\)](#), [GetConduitList\(\)](#) methods

SetExceptionDates

- Purpose** Sets the exception dates for a repeating event in Date Book.
- Applies to** [PDDateBookDbHHRRecord2](#) object.
- Prototype** Sub **SetExceptionDates** (*pvDates*)
- Parameters** → *pvDates*
A Variant array of values of type Date. These are the dates on which a repeating Date Book event does not occur.
- Returns** None.
- See Also** [GetExceptionDates\(\)](#) method.

Methods

SetIntegerValue

SetIntegerValue

Purpose	Sets an integer value to a key in the specified user's area of the users data store.
Applies to	PDUserData object.
Prototype	Sub SetIntegerValue (<i>dwUserId</i> As Long, <i>Section</i> As String, <i>Key</i> As String, <i>value</i> As Long)
Parameters	<div><div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div><div>→ <i>Section</i> The section name in the specified user's area of the users data store.</div><div>→ <i>Key</i> The key of the integer to set.</div><div>→ <i>value</i> The new integer value to set.</div></div>
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eOtherUDErr The attempt to write to the specified user's area of the users data store failed.</div>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetIntegerValue() , DeleteKey() methods

SetPath

Purpose	Sets the value of one of the stored path variables.
Applies to	PDInstall object.
Prototype	Sub SetPath (<i>type</i> As EPDPathType, <i>value</i> As String)
Parameters	<div>→ <i>type</i> A constant of type EPDPathType that specifies which path name you want to set.</div> <div>→ <i>value</i> A BSTR containing the new path to store.</div>
Returns	None.
Errors	eParamError Parameters were not passed correctly.
Comments	This method sets the value of a path variable in the HotSync Manager configuration entries (see “ HotSync Manager Configuration Entries ” on page 188 in the <i>Introduction to Conduit Development</i>).
See Also	GetPath() method. EPDPathType constant.

Methods

SetStringData

SetStringData

Purpose	Sets a String configuration entry value for the specified conduit.
Applies to	PDCondMgr , PDInstallConduit , PDSysSystemCondMgr objects.
Prototype	PDCondMgr and PDSysSystemCondMgr : Sub SetStringData (<i>CreatorID</i> As Long, <i>StringName</i> As String, <i>Data</i> As String) PDInstallConduit : Sub SetStringData (<i>UniqueId</i> As Long, <i>StringName</i> As String, <i>Data</i> As String)
Parameters	<div>→ <i>CreatorID</i> If a PDCondMgr or PDSysSystemCondMgr object, this parameter is the creator ID of the conduit you want to set a value for.</div> <div>→ <i>UniqueId</i> If a PDInstallConduit object, this parameter is the unique ID of the install conduit you want to set a value for.</div> <div>→ <i>StringName</i> The name of the string configuration entry you want to set.</div> <div>→ <i>Data</i> The string value you want to set the specified entry to.</div>
Returns	None.
Errors	<div>eInvalidID The specified conduit creator ID is not valid.</div> <div>eNoSuchConduit The specified install conduit does not exist.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>

Comments This is a general purpose method that allows you to create or change a configuration entry by name. If the conduit you want is a standard synchronization conduit (most are), specify the creator ID in the first parameter. If the conduit you want is an [install conduit](#), specify the unique ID in the first parameter.

This method sets information about a conduit that is registered either for the current Windows user or the system, depending on whether it is called for a [PDCondMgr](#) or a [PDSystemCondMgr](#) object.

Example

```
Dim CreatorId As Long
Dim strExtra As String
Const strTestValue = "Hello World"

Dim PCondMgr As New PDCondMgr
CreatorId = PCondMgr.StringToCreatorID("memo")

' Set the value for a custom filed called "ExtraString"
Call PCondMgr.SetStringData(CreatorId, "ExtraString", _
    strTestValue)
strExtra = PCondMgr.GetStringData(CreatorId, "ExtraString")
```

See Also [GetStringData\(\)](#), [GetConduitList\(\)](#) methods

Methods

SetStringValue

SetStringValue

Purpose	Sets a string value to a key in the specified user's area of the users data store.
Applies to	PDUserData object.
Prototype	Sub SetStringValue (<i>dwUserId</i> As Long, <i>Section</i> As String, <i>Key</i> As String, <i>value</i> As String)
Parameters	<div><div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div><div>→ <i>Section</i> The section name in the specified user's area of the users data store.</div><div>→ <i>Key</i> The key of the string to set.</div><div>→ <i>value</i> The new string value to set.</div></div>
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eOtherUDErr The attempt to write to the specified user's area of the users data store failed.</div>
Comments	Specifying value as Null deletes the key.
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetStringValue() , DeleteKey() methods

SetUserDirectory

Purpose	Sets the directory name of the specified user ID.
Applies to	PDUserData object.
Prototype	Sub SetUserDirectory (<i>dwUserId</i> As Long, <i>Directory</i> As String)
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>Directory</i> A string containing the user directory name to set.</div>
Returns	None.
Errors	<div>eIDInUse The specified user directory name is already in use by another user.</div> <div>eInvalidUser dwUserId is an invalid number.</div> <div>eInvalidUserDir Directory parameter is invalid.</div> <div>eNoCorePath No path for the users data store was found.</div> <div>eNoUsers The users data store exists, but contains no information.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div> <div>eUDUnableToCreate Creating a new users data store failed because of a file error.</div>
See Also	GetUserList() , GetIDFromName() , GetIDFromPath() , GetUserDirectory() , GetRootDirectory() methods

Methods

SetUserName

SetUserName

Purpose Sets the user name of the specified user ID.

Applies to [PDUserData](#) object.

Prototype Sub **SetUserName** (*dwUserId* As Long, *UserName* As String)

Parameters

- *dwUserId*
A unique ID to specify the user to reference in the users data store.
- *UserName*
A string containing the user name to set. It must be no more than 20 characters long.

Returns None.

Errors

- `eInvalidUser`
dwUserId is an invalid number.
- `eNoCorePath`
No path for the users data store was found.
- `eNoUsers`
The users data store exists, but contains no information.
- `eOtherUDErr`
No users data store was found or another method or program is accessing the user data store.
- `eParamError`
Parameters were not passed correctly.
- `eUDSemaphoreError`
Another method or program is accessing the user data store.
- `eUDUnableToCreate`
Creating a new users data store failed because of a file error.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetUserNameFromID\(\)](#), [AddNewUser\(\)](#) methods

SetUserPermanentSyncPreferences

Purpose	Sets a conduit's permanent synchronization preferences for the specified user ID.
Applies to	PDUserData object.
Prototype	Sub SetUserPermanentSyncPreferences (<i>dwUserId</i> As Long, <i>ConduitCreatorId</i> As Long, <i>SyncAction</i> As EPDUserSyncAction)
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>ConduitCreatorId</i> The creator ID of the conduit you want to set the preferences of.</div> <div>→ <i>SyncAction</i> The user's permanent synchronization preferences you want to set for this conduit, as a EPDUserSyncAction value.</div>
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eNoCorePath No path for the users data store was found.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>

Methods

SetUserPermanentSyncPreferences

eUDUnableToCreate

Creating a new users data store failed because of a file error.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetConduitList\(\)](#), [GetUserPermanentSyncPreferences\(\)](#), [DeleteUserPermanentSyncPreferences\(\)](#), [GetUserTemporarySyncPreferences\(\)](#), [SetUserTemporarySyncPreferences\(\)](#), [DeleteUserTemporarySyncPreferences\(\)](#), [RemoveUserTemporarySyncPreferences\(\)](#) methods.
[EPDUserSyncAction](#) constant.

SetUserTemporarySyncPreferences

Purpose	Sets a conduit's temporary synchronization preferences for the specified user ID.
Applies to	PDUserData object.
Prototype	Sub SetUserTemporarySyncPreferences (<i>dwUserId</i> As Long, <i>ConduitCreatorId</i> As Long, <i>SyncAction</i> As EPDUserSyncAction)
Parameters	<div>→ <i>dwUserId</i> A unique ID to specify the user to reference in the users data store.</div> <div>→ <i>ConduitCreatorId</i> The creator ID of the conduit you want to set the preferences of.</div> <div>→ <i>SyncAction</i> The user's temporary synchronization preferences you want to set for this conduit, as a EPDUserSyncAction value.</div>
Returns	None.
Errors	<div>eInvalidUser dwUserId is an invalid number.</div> <div>eNoCorePath No path for the users data store was found.</div> <div>eOtherUDErr No users data store was found or another method or program is accessing the user data store.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eUDSemaphoreError Another method or program is accessing the user data store.</div>

Methods

SetUserTemporarySyncPreferences

eUDUnableToCreate

Creating a new users data store failed because of a file error.

See Also [GetUserList\(\)](#), [GetIDFromName\(\)](#), [GetIDFromPath\(\)](#), [GetConduitList\(\)](#), [GetUserTemporarySyncPreferences\(\)](#), [DeleteUserTemporarySyncPreferences\(\)](#), [RemoveUserTemporarySyncPreferences\(\)](#), [GetUserPermanentSyncPreferences\(\)](#), [SetUserPermanentSyncPreferences\(\)](#), [DeleteUserPermanentSyncPreferences\(\)](#) methods.
[EPDUserSyncAction](#) constant.

StartHotSyncMgr

Purpose	Starts the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub StartHotSyncMgr (<i>options</i> As Long)
Parameters	<p>→ <i>options</i></p> <p>A long value that is all the OR-ed flags that specify how you want to start HotSync Manager. Use the constants described in “HotSync Manager Start Options Constants” on page 572.</p>
Returns	None.
Errors	<p>eUnableToStart</p> <p>This method cannot start the HotSync Manager application.</p>
Comments	If HotSync Manager is already running, this method ignores the options flags and generates no error.
See Also	RefreshConduitInfo() , RestartHotSyncMgr() , TerminateHotSyncMgr() methods

Methods

StringToCreatorID

StringToCreatorID

Purpose	Converts a String into a DWORD conduit creator ID.
Applies to	PDCondMgr , PDSysCondMgr objects.
Prototype	Function StringToCreatorID (<i>strID</i> As String) As Long
Parameters	→ <i>strID</i> The creator ID (as a four-character string) that you want to convert.
Returns	A creator ID as a DWORD.
Errors	eInvalidID The specified conduit creator ID is not valid. eParamError Parameters were not passed correctly.
Comments	Most other methods that take a creator ID need it as a DWORD.
Example	<pre>Dim CreatorID As Long Dim strResult As String Const strCreator = "memo" Dim PDcond As New PDCondMgr ' Converted the string value to a Long and back again CreatorID = PDcond.StringToCreatorID(strCreator) strResult = PDcond.CreatorIDToString(CreatorID)</pre>
See Also	CreatorIDToString() method

StringToRecordId

Purpose	Converts a string (BSTR) to record ID.
Applies to	PDUtility object.
Prototype	Function StringToRecordId (<i>strId</i> as String) as Variant
Parameters	← <i>strId</i> Record ID in a string.
Returns	A record ID. This record ID can be used by other methods including ReadById() and Write() .
Comments	<p>This method converts a Byte array (read from the binary file that contains your record data) into record ID. You can use the returned record ID in methods including ReadById() and Write().</p> <p>Palm OS record IDs are long integers, but this may change. PalmSource, Inc. strongly recommend that you use PDUtility methods like these to convert record ID from/to Byte array/String formats.</p>

Example

```

Private pRemoteData As PDRecordAdapter
Dim pUtil as New PDUtility
Dim DbQuery as New PDDatabaseQuery
Dim strId as String
strId = 12345
Dim vRecordId as Variant
vRecordId = pUtil.StringToRecordId(strId)

Dim nIdx As Long
Dim vRecordId As Variant
Dim nCategory As Long
Dim eAttributes As ERecordAttributes
Dim pData As Variant
fill pData, nCategory, eAttributes here
pRemoteData.Write (vRecordId, nCategory, eAttributes, pData)

```

Methods

SwapDWORD

SwapDWORD

Purpose	Swaps the bytes of an unsigned Long.
Applies to	PDUtility object.
Prototype	Function SwapDWORD (<i>nDWordVal</i> as Long) as Long
Parameters	→ <i>nDWordVal</i> Unsigned long to swap.
Returns	The swapped unsigned Long.

Example

```
Dim Utility As New PDUtility
Dim DWVal as long
DwVal = &H0A0B0C0D
DwVal = Utility.SwapDWORD(DwVal)
```

SwapWORD

Purpose	Swaps the bytes of an unsigned Integer.
Applies to	PDUtility object.
Prototype	Function SwapWORD (<i>nWordVal</i> as Integer) as Integer
Parameters	→ <i>nWordVal</i> Unsigned Integer to swap.
Returns	The swapped unsigned Integer.
Example	<pre>Dim Utility As New PDUtility Dim DwVal as Integer DwVal = &H0A0B DwVal = Utility.SwapWORD(DWVal)</pre>

Methods

SyncMgrAPIVersion

SyncMgrAPIVersion

Purpose	Retrieves the version of the Sync Manager API that is installed on the desktop computer.
Applies to	PDSystemAdapter object.
Prototype	Sub SyncMgrAPIVersion (<i>nVMajor</i> as Integer, <i>nVMinor</i> as Integer)
Parameters	<div><div>\leftarrow <i>nVMajor</i> Major version number.</div><div>\leftarrow <i>nVMinor</i> Minor version number.</div></div>
Returns	None.
Example	<pre>Dim pSystem as New PDSystemAdapter Dim Vmajor as Integer, Vminor as Integer PSystem.SyncMgrVersion (Vmajor, Vminor)</pre>

Tell

Purpose	Gets the current position of the file pointer within an open file on an expansion card.
Applies to	PDVFSFileManager object.
Prototype	Sub Tell (<i>Position</i> As Long)
Parameters	\leftarrow <i>Position</i> The current position of the file pointer.
Returns	None.
Errors	<div>eParamError Parameters were not passed correctly.</div> <div>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</div> <div>eVFSInvalidOperation A file system is not present.</div> <div>eVFSIsADirectory This operation can be performed only on a regular file, not a directory.</div> <div>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</div> <div>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</div> <div>eVFSVolumeBadRef The volume reference number is invalid because, for example, the volume has not been mounted.</div>
Comments	This method operates only on files and cannot be used with directories.
See Also	Seek() , Read() , Write() , Open() methods.

Methods

TerminateHotSyncMgr

TerminateHotSyncMgr

Purpose	Closes the HotSync Manager application.
Applies to	PDHotSyncUtility object.
Prototype	Sub TerminateHotSyncMgr () ;
Parameters	None.
Returns	None.
Errors	eUnableToClose This method cannot close HotSync Manager.
Comments	If HotSync Manager is not running, this method generates no error.
See Also	StartHotSyncMgr() , RestartHotSyncMgr() , RefreshConduitInfo() methods

UnregisterConduit

Purpose	Unregisters a conduit with HotSync Manager.
Applies to	PDCondMgr , PDSystemCondMgr objects.
Prototype	Sub UnregisterConduit (<i>CreatorID</i> As Long)
Parameters	→ <i>CreatorID</i> The creator ID of the conduit you want to unregister.
Returns	None.
Errors	<div>eAlreadyExists Another conduit is already registered with this creator ID.</div> <div>eInvalidID The specified conduit creator ID is not valid.</div> <div>eLocalMemory Not enough memory on the desktop to perform the requested operation.</div> <div>eNoSuchConduit The specified conduit does not exist.</div> <div>eParamError Parameters were not passed correctly.</div> <div>eRegistryFailure Unable to access the conduit configuration entries.</div>
Comments	This method unregisters a conduit either for the current Windows user or the system, depending on whether it is called for a PDCondMgr or a PDSystemCondMgr object. For more information, see “ User- and System-registered Conduits and Notifiers ” on page 78 in <i>Introduction to Conduit Development</i> .
Example	See the example under RegisterConduit() .
See Also	GetConduitList() , RegisterConduit() methods

Methods

UnregisterIC

UnregisterIC

Purpose	Unregisters an install conduit with HotSync Manager.
Applies to	PDInstallConduit object.
Prototype	Sub UnregisterIC (<i>UniqueId</i> As Long)
Parameters	→ <i>UniqueId</i> The unique ID of the install conduit you want to unregister.
Returns	None.
Errors	eInvalidInstallID The specified unique ID is not valid. eNoSuchConduit The specified conduit does not exist. eRegistryFailure Unable to access the conduit configuration entries. eValueNotFound The specified value could not be found in the configuration entries for this conduit.
Comments	The sequence for unregistering an install conduit is to call: <ol style="list-style-type: none">1. TerminateHotSyncMgr() to exit HotSync Manager.2. UnregisterIC() to unregister your install conduit.3. StartHotSyncMgr() to launch HotSync Manager.

Example

```
Dim PInstall As New PDInstallConduit
Dim PInfo As New PDInstallConduitInfo

PInfo.Directory = "Install"
PInfo.Extension = "All Files (*.*)|*.*"
PInfo.Module = "MyInstallConduit.dll"
PInfo.Name = "Test Install"
PInfo.UniqueId = 1952805748

Call PInstall.RegisterIC(PInfo)
Call PInstall.UnregisterIC(1952805748)
```

See Also

[PDInstallConduitInfo](#) object.
[RegisterIC\(\)](#), [TerminateHotSyncMgr\(\)](#),
[StartHotSyncMgr\(\)](#) methods.

Methods

UnregisterNotifier

UnregisterNotifier

Purpose	Unregisters a notifier with HotSync Manager.
Applies to	PDCondMgr object.
Prototype	Sub UnregisterNotifier (<i>NotifierPath</i> As String)
Parameters	→ <i>NotifierPath</i> The full path and filename of the notifier you want to unregister.
Returns	None.
Errors	eNotifierNotFound The specified notifier is not registered. eParamError Parameters were not passed correctly. eRegistryFailure Unable to access the conduit configuration entries.
Comments	This method does not delete the notifier DLL itself, only its registration entry with HotSync Manager. The sequence for unregistering a notifier is to call: <ol style="list-style-type: none">1. TerminateHotSyncMgr() to exit HotSync Manager.2. UnregisterNotifier() to unregister your notifier.3. StartHotSyncMgr() to launch HotSync Manager.

Example	<pre>Dim PDCondMgr As New PDCondMgr Call PDCondMgr.RegisterNotifier("C:\CDK403\C++\Samples_ PDNotify\Debug\PdN20d.dll") Call PDCondMgr.ModifyNotifier("C:\CDK403\C++\Samples_ PDNotify\Debug\PdN20d.dll", "C:\PdN20d.dll") Call PDCondMgr.UnregisterNotifier("C:\CDK403\C++\Samples_ PDNotify\Debug\PdN20d.dll")</pre>
----------------	--

See Also [RegisterNotifier\(\)](#), [ModifyNotifier\(\)](#) methods

WORDToByteArray

Purpose	Inserts an unsigned Integer into a Byte array.
Applies to	PDUtility object.
Prototype	Function WORDToByteArray (<i>pvData</i> As Variant, <i>nOffset</i> As Long, <i>bSwap</i> As Boolean, <i>nWordVal</i> As Integer) As Long
Parameters	<div>→ <i>pvData</i> Byte array used for insertion.</div> <div>→ <i>nOffset</i> Offset location where the unsigned Integer is inserted.</div> <div>→ <i>bSwap</i> If True, this method swaps the bytes in <i>nWordVal</i> before inserting them in <i>pvData</i>.</div> <div>→ <i>nWordVal</i> Unsigned Integer to insert.</div>
Returns	A hexadecimal offset to the next byte in the array.
Example	<pre>Sub InsertWord(Record As Variant, Value As Integer) Dim Utility As New PDUtility Dim NextOffset As Long ' Insert the string in the array NextOffset = Utility.WORDToByteArray(Record, 0, Value) End Sub</pre>

Methods

Write

Write

Purpose Writes a record in a classic or extended database.

Applies to [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.

Prototype [DmRecordAdapter](#) and [PDRecordAdapter](#):

```
Sub Write(pvUniqueId, ByVal nCategory As Long,
    ByVal eAttributes As ERecordAttributes, ByVal
    vData)
```

```
PD<PIM>DbHHRecordAdapter:
```

```
Function Write(p<PIM>DbRecord as
    PD<PIM>DbHHRecord) as Variant
```

Parameters \leftrightarrow *pvUniqueId*
Requested ID. You can set the unique ID to `VbEmpty`, which causes the handheld to create a new record, or you can set the unique ID to an existing ID and the handheld overwrites the existing record. The [Write\(\)](#) method always returns the unique ID for the record.

\rightarrow *nCategory*
Category.

\rightarrow *eAttributes*
Record attributes, which are combinations of [ERecordAttributes](#) constants.

\rightarrow *vData*
Data. Input array for database record data.

\rightarrow *p<PIM>DbRecord*
An object representing a record in one of the four standard Palm OS application databases (denoted `PD<PIM>DbHHRecord`). This is the record to write.

Returns For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object, returns no value.

For any of the objects representing classic databases used by any of four standard Palm OS applications (denoted PD<PIM>DbHHRecordAdapter), this method returns a unique ID as a Variant.

Example For a [DmRecordAdapter](#) or [PDRecordAdapter](#) object:

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter as PDRecordAdapter
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Write a new record
Dim vUniqueID as Variant
vUniqueID = VbEmpty
Dim bArray() as Byte
bArray = StrConv("This is a String", vbFromUnicode)
Adapter.Write(vUniqueID, 0, 0, bArray)
```

For a PD<PIM>DbHHRecordAdapter:

```
Dim pDbQuery As New PDDatabaseQuery
Dim PDateRecord As New PDDateBookDbHHRecord
Dim pDateAdapter As PDDateBookDbHHRecordAdapter
Set pDateAdapter = pDbQuery.OpenRecordDatabase("DatebookDB", _
    "PDStandard.PDDatebookDbHHRecordAdapter", eRead Or eWrite_
    Or eShowSecret)
' Fill in record data.
PDateRecord.Description = "Test Record"
PDateRecord.StartTime = "07/19/2002 9:00:00 AM"
PDateRecord.EndTime = "07/19/2002 9:15:00 AM"
' Write the record.
Dim uniqueid As Variant
uniqueid = pDateAdapter.Write(PDateRecord)
```

See Also [DmRecordAdapter](#), [PDRecordAdapter](#), [PDAddressDbHHRecord](#), [PDDateBookDbHHRecord](#), [PDMemoDbHHRecord](#), [PDToDoDbHHRecord](#) objects.

Methods

Write

Write

Purpose	Writes data to an open file on an expansion card.
Applies to	PDVFSFileManager object.
Prototype	Function Write (<i>NumBytesToWrite</i> As Long, <i>Buffer</i> As Variant) As Long
Parameters	<div>→ <i>NumBytesToWrite</i> The number of bytes to write.</div> <div>→ <i>Buffer</i> A Variant containing an array of bytes to write.</div>
Returns	The number of bytes (as a Long) that were actually written.
Errors	<div>eParamError The Buffer or NumBytesToWrite parameter is Null.</div> <div>eVFSFileBadRef The file reference number is invalid: it has been closed or was not obtained from Open().</div> <div>eVFSFilePermissionDenied Permission denied to perform requested operation—for example, an attempt to write to a read-only file or to read a file already opened in the <code>eVFSModeExclusive</code> mode.</div> <div>eVFSInvalidOperation A file system is not present.</div> <div>eVFSIsADirectory This operation can be performed only on a regular file, not a directory.</div> <div>eVFSNoFileSystem None of the file systems installed on the handheld support this operation.</div> <div>eVFSNotOpen The file system library on the handheld necessary for this call has not been installed or has not been opened.</div> <div>eVFSVolumeBadRef The volume reference number is invalid because, for example, the volume has not been mounted.</div> <div>eVFSVolumeFull There is insufficient space left on the volume.</div>

Comments This method operates only on files and cannot be used with directories.

See Also [Seek\(\)](#), [Tell\(\)](#), [Read\(\)](#), [Open\(\)](#) methods.

Methods

WriteAppInfoBlock

WriteAppInfoBlock

Purpose	Writes an application info block to an open classic or extended database on the handheld. The database must be opened for reading and writing.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Sub WriteAppInfoBlock (ByVal <i>vAppInfo</i>)
Parameters	→ <i>vAppInfo</i> Application info block. Empty deletes the application info block.
Comments	When <i>vAppInfo</i> is a Byte array, this method writes that array to the record database's application info block. If <i>vAppInfo</i> is Empty (or a Byte array with zero length), then this method erases the application info block.
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Read, then write the AppInfo block Dim AppInfo as Variant AppInfo = Adapter.ReadAppInfoBlock Adapter.WriteAppInfoBlock AppInfo</pre>
----------------	---

WriteAppPreference

Purpose	Writes an application's preference block.
Applies to	PDSystemAdapter object.
Prototype	Sub WriteAppPreference (<i>vCreator</i> as Variant, <i>nId</i> as Long, <i>bBackup</i> as Boolean, <i>nVersion</i> as Integer, <i>vPrefs</i> as Variant)
Parameters	<div><div>→ <i>vCreator</i> Creator ID. The unique ID associated with each database and application on the device. Each conduit is associated with a specific creator ID. It is four characters that can be in either Long (VT_I4) or Little Endian form.</div><div>→ <i>nId</i> Preference ID.</div><div>→ <i>bBackup</i> When True, this method writes to the Saved Preferences database. When False, this method writes to the UnSaved Preferences database.</div><div>→ <i>nVersion</i> The version number, as assigned by the application.</div><div>→ <i>vPrefs</i> The Preference record array to write. If this parameter is Empty (or a Byte array with zero length), then this method will erase the Application Preference data.</div></div>
Returns	None.

Example	<pre>Dim pSystem as New PDSystemAdapter Dim vAppPref as Variant Dim Version as Integer ' Read, then write the preference vAppPref = PSystem.ReadAppPreference ("mail", 1, True, _ Version) pSystem.WriteAppPreference ("mail", 1, True, Version, _ vAppPref)</pre>
----------------	--

See Also [ReadAppPreference\(\)](#)

Methods

WriteColumnValue

WriteColumnValue

- Purpose** Writes the specified bytes of a single column value to a row in a schema database.
- Applies to** [PSDRowAdapter](#) object.
- Prototype** Sub **WriteColumnValue**(ByVal *vRowID*, ByVal *ColumnID* As Long, ByVal *DataOffset* As Long, *pData*)
- Parameters**
- *vRowID*
The row ID of the row.
 - *ColumnID*
The column ID of the column value to write.
 - *DataOffset*
An offset from the first byte in a column value from which to start writing data.
 - *pData*
A Variant byte array that contains the bytes of the column value to write.
- Returns** None.

WriteColumnValues

Purpose	Writes a set of column values to a row in a schema database.
Applies to	PSDRowAdapter object.
Prototype	Sub WriteColumnValues (ByVal <i>vRowID</i> , <i>PSDRowData</i> As IPSDRowData)
Parameters	<div>→ <i>vRowID</i> The row ID of the row.</div> <div>→ <i>PSDRowData</i> A PSDRowData object that contains the column values to write.</div>
Returns	None.

Methods

WriteResource

WriteResource

Purpose	Writes a resource to an open resource database on the handheld.
Applies to	PDBResourceAdapter object.
Prototype	Sub WriteResource (<i>vType</i> as Variant, <i>nId</i> as Long, <i>vData</i> as Variant)
Parameters	<div><div>→ <i>vType</i> Four-byte resource type that can be passed in either Long (VT_I4) or Little Endian form.</div><div>→ <i>nId</i> Resource ID.</div><div>→ <i>vData</i> Byte array containing the resource data.</div></div>
Returns	None.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDBRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Write a new resource Dim bArray() as Byte bArray = StrConv("This is a Resource", vbFromUnicode) Adapter.WriteResource "Res1", 1, bArray</pre>
----------------	--

WriteSortInfoBlock

Purpose	Writes a sort info block to an open classic or extended database on the handheld.
Applies to	DmRecordAdapter , PDRecordAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Prototype	Sub WriteSortInfoBlock (ByVal <i>vSortInfo</i>)
Parameters	→ <i>vSortInfo</i> Sort info block. Empty deletes the sort info block.
Returns	None.
Comments	When <i>vSortInfo</i> is a Byte array, this method writes that array to the record database's sort info block. If <i>vSortInfo</i> is Empty (or a Byte array with zero length), then this method erases the sort info block.
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter as PDRecordAdapter Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Read, then write the sort info block Dim SortInfo as Variant SortInfo = Adapter.ReadSortInfoBlock Adapter.WriteSortInfoBlock SortInfo</pre>

Methods

WriteSortInfoBlock

Properties

This chapter describes the COM Sync properties in alphabetical order.

Properties

AccessMode

AccessMode

Purpose	Open database access mode.
Applies to	DmRecordAdapter , PDRecordAdapter , PDResourceAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Accessibility	Read-only.
Prototype	Property AccessMode as EAccessModes
Comments	Can be one or more values from the EAccessModes constants.
Example	<pre>Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", _ eRead Or eWrite) ' Get the open access mode Dim AccessMode As EAccessModes AccessMode = Adapter.AccessMode</pre>
See Also	EAccessModes constants.

Address

Purpose	Content of the “Address” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Address As String

AlarmAdvanceTime

Purpose	How long before an event to trigger the alarm.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property AlarmAdvanceTime As Long
Comments	This value is a unitless number; refer to the AlarmAdvanceUnits property to determine whether this value is in minutes, hours, or days. For example, if this property is set to 10 and AlarmAdvanceUnits is set to PD_AAU_MINUTES, then the alarm is triggered 10 minutes before the start time of the event.

AlarmAdvanceUnits

Purpose	Time units that the AlarmAdvanceTime property is specified in.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property AlarmAdvanceUnits As EPDAlarmAdvTimeUnits
Comments	This property has one of the values defined by the EPDAlarmAdvTimeUnits enum: minutes, hours, or days.

Properties

AppInfoSize

AppInfoSize

Purpose	Application info block size of this database.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property AppInfoSize as Long
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the AppInfo block size Dim AppInfoSize as Long AppInfoSize = DbInfo.AppInfoSize</pre>

Attributes

Purpose	Flags that indicate the attributes of this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property Attributes As Long
Parameters	None.
Comments	The value of this property a combination of the EPSDDatabaseFlags values.

Attributes

Purpose	Attributes of a volume, file, or directory on an expansion card, such as whether it is read-only.
Applies to	PDVFSVolumeManager and PDVFSFileManager objects.
Accessibility	For a volume: Read-only. For a file or directory: Read/write.
Prototype	Property Attributes As Long
Comments	For volumes, this property may have a value of one or more of the constants defined in “ VFS Volume Attributes ” on page 576. For files and directories, this property can be set to or have one or more of the constants defined in “ VFS File and Directory Attributes ” on page 574.

BackupDate

Purpose	Date that this database was last backed up. Last backup date of this database.
Applies to	PSDDatabaseInfo , DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property BackupDate as Date
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the last backup date Dim BackupDate as Date BackupDate = DbInfo.BackupDate</pre>

Properties

BOF

BOF

Purpose	The cursor has reached the beginning of this row set.
Applies to	PSDRowSet object.
Accessibility	Read/write.
Prototype	Property BOF As Boolean
Parameters	→ <i>ColID</i> The column ID of a column in this row.

CapabilityFlags

Purpose	Describes the capabilities of an expansion card, such as whether it has storage and whether it is read-only.
Applies to	PDExpansionCardInfo object.
Accessibility	Read-only.
Prototype	Property CapabilityFlags As Long
Comments	This property can be set to one or more of the constants defined in “ Hardware Capability Flags ” on page 571.

CardName

Purpose	Memory card name.
Applies to	PDMemoryCardInfo object.
Accessibility	Read-only
Prototype	Property CardName as String
Example	<pre>Dim pSystem as New PDSystemAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the card name Dim Name as String Name = MemCard.CardName</pre>

CardNum

Purpose	The number of the memory card on which the database is stored.
Applies to	DmDatabaseInfo , PDMemoryCardInfo , PDHotsyncInfo , PDDatabaseInfo objects.
Accessibility	Read-only
Prototype	Property CardNum as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the card number Dim Number as Long Number = MemCard.CardNum</pre>

CardVersion

Purpose	Memory card version.
Applies to	PDMemoryCardInfo object.
Accessibility	Read-only.
Prototype	Property CardVersion as Integer
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the card version Dim Version as Integer Version = MemCard.CardVersion</pre>

Properties

CategoryId

CategoryId

Purpose	Category ID specified by category index.
Applies to	DmCategories , PDCategories , PDAddressDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	For DmCategories and PDCategories objects: Property CategoryId (ByVal <i>nIndex</i> As Long) As Long For PD<PIM>DbHHRecordAdapter objects: Property CategoryId As Long
Parameters	→ <i>nIndex</i> Category index.
Comments	For a DmCategories or PDCategories object, this property is the category ID corresponding to the specified category index in this database. For any of the objects representing records used by any of four standard Palm OS® application databases (denoted PD<PIM>DbHHRecord), this property is the category ID assigned to this record.

Example	<pre>Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _ eWrite) ' Get the categories object Dim Categories as PDCategories Set Categories = Adapter.PDCategories ' Do Something with Id's Dim Idx as Long For Idx = 0 to 15 If Categories.CategoryId(Idx) <> 0 then ' Do something here End If Next</pre>
----------------	---

CategoryIDList

Purpose	List of categories to which this row belongs.
Applies to	PSDRowData object.
Accessibility	Read/write.
Prototype	Property CategoryIDList As Variant
Parameters	None.
Comments	This property is a Variant array of category IDs that specifies this row's category memberships. Writing this property removes this row's existing category memberships and adds those that this property specifies. If you want to add memberships and retain the row's existing ones, call AddCategoryMembership() instead.

City

Purpose	Content of the "City" field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property City As String

Properties

CloseOptions

CloseOptions

Purpose Update database dates on close.

Applies to [DmRecordAdapter](#), [PDRecordAdapter](#),
[PDAddressDbHHRecordAdapter](#),
[PDDateBookDbHHRecordAdapter2](#),
[PDDateBookDbHHRecordAdapter](#),
[PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#)
objects.

Accessibility Read/write.

Prototype Property **CloseOptions** as EUpdateDbDates

Comments Permits the last-modified and last-backup dates to be updated. COM Sync automatically closes an open database when you call the last Release (in C++) on the associated adapter object or set the adapter object reference to Nothing (in Visual Basic). The CloseOptions property gives you the opportunity to change one or both of the dates on the database, before it is closed.

Example

```
Dim DbQuery As New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", _
    eRead Or eWrite)
' Reset the last modified date on closing
Adapter.CloseOptions = eModifiedDate
```

See Also [EUpdateDbDates](#) constants

ColumnIDFromName

Purpose	Column ID specified by column name.
Applies to	PSDRowData object.
Accessibility	Read-only.
Prototype	Property ColumnIDFromName (ByVal <i>ColumnName</i> As String) As Long
Parameters	→ <i>ColumnName</i> The name of a column in this row.
Comments	

ColumnNameFromID

Purpose	Column name specified by column ID.
Applies to	PSDRowData object.
Accessibility	Read-only.
Prototype	Property ColumnNameFromID (ByVal <i>ColumnID</i> As Long) As String
Parameters	→ <i>ColumnID</i> The column ID of a column in this row.
Comments	

COMClassID

Purpose	ProgID of this COM-based conduit.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property COMClassID as String
Comments	<p>If your conduit is an ActiveX server, this value is the notification object's ProgID (also called the Programmatic ID)—for example, <code>SimpleDb.CNotify</code>.</p> <p>If your conduit is a standard EXE, then this value is the full path and filename of your client conduit. If you are debugging, then this is the path of your IDE executable—for example, <code>C:\Program Files\Microsoft Visual Studio .NET 2003\Common7\IDE\devenv.exe</code>.</p> <p>This property is <i>required</i> for all COM-based conduits; other conduits ignore it.</p>

Company

Purpose	Content of the “Company” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Company As String

ConnectionType

Purpose	An EConnectionType value that indicates the type transfer medium of the current HotSync operation.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property ConnectionType as EConnectionType
Example	<pre>Dim pSystem as New PDSystemAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the connection type Dim ConType as EConnectionType ConType = HSInfo.ConnectionType</pre>
See Also	EConnectionType constants.

Country

Purpose	Content of the “Country” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Country As String

Properties

CreateDate

CreateDate

Purpose	Creation date of this database.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property CreateDate as Date
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the creation date Dim CreateDate as Date CreateDate = DbInfo.CreateDate</pre>

CreationDate

Purpose	Date on which this schema database was created.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property CreationDate As Date
Parameters	None.

CreationDate

Purpose	Memory card creation date, or if on an expansion card, the creation date for a file or directory.
Applies to	PDMemoryCardInfo and PDVFSFileManager objects.
Accessibility	For PDMemoryCardInfo objects: Read-only. For PDVFSFileManager objects: Read/write.
Prototype	Property CreationDate as Date
Comments	<p>For memory cards in a handheld's primary storage, this property is the creation date of the handheld's RAM memory card, which is where Palm OS databases are stored.</p> <p>For expansion cards, this property is the creation date of this file or directory.</p>
Example	For PDMemoryCardInfo objects:

```
Dim pSystem as New PDSystemAdapter
Dim MemCard as PDMemoryCardInfo
Set MemCard = pSystem.PDMemoryCardInfo
' Get the card creation date
Dim CreationDate as Date
CreationDate = MemCard.CreationDate
```

Properties

Creator

Creator

Purpose	The creator ID associated with the current conduit or database.
Applies to	DmDatabaseInfo , PDDatabaseInfo , PDHotsyncInfo objects.
Accessibility	Read-only.
Prototype	Property Creator as Long

Example

```
Dim pUtil as PDUtility
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' Get the database creator ID
Dim CreatorId as String
CreatorId = pUtil.DwordToBSTR (DbInfo.Creator, False)
```

CreatorID

Purpose	Creator ID of the application on the handheld that this conduit is responsible for synchronizing.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property CreatorID as Long

Comments This value is the unique key by which HotSync Manager identifies your conduit, so only *one* conduit can be registered with a particular creator ID at a time. HotSync Manager calls your conduit during synchronization only if an application (not just a database) with this creator ID exists on the handheld, unless your conduit opts out of this requirement (see [GetConduitInfo\(\)](#)).

This property is *required* for all conduits and all versions of HotSync Manager.

The value of this property is a four-byte Palm OS [creator ID](#). Use [CreatorIDToString\(\)](#) to convert this value to the usual four-character representation of a creator ID.

CreatorID

Purpose	Creator ID of this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property CreatorID As Long
Parameters	None.
Comments	The value of this property is a four-byte Palm OS creator ID . Use DWORDToBSTR() to convert this value to the usual four-character representation of a creator ID.

Custom1

Purpose	Content of the “Custom 1” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Custom1 As String

Custom2

Purpose	Content of the “Custom 2” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Custom2 As String

Properties

Custom3

Custom3

Purpose	Content of the “Custom 3” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Custom3 As String

Custom4

Purpose	Content of the “Custom 4” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Custom4 As String

DataBytes

Purpose	Number of bytes of storage used by this database for data only, excluding overhead.
Applies to	PSDDatabaseInfo , DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property DataBytes as Long
Comments	Contrast this property with TotalBytes .

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the database data size Dim DataBytes as Long DataBytes = DbInfo.DataBytes</pre>
----------------	--

DataType

Purpose	Type of data stored in a column in a schema database.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property DataType As EPSDColumnType
Parameters	None.
Comments	This property has one of the values defined by the EPSDColumnType enum.

Properties

DateTime

DateTime

Purpose Current date and time on the handheld.

Applies to [PDSystemAdapter](#) object.

Accessibility Read/write.

Prototype Property **DateTime** as Date

Comments This property gets and sets the current system date and time on the handheld. In general, conduits should avoid changing the system date and time, because setting this property does not notify applications on the handheld that the time has changed. Some applications, such as PalmSource's Date Book, need to know when the system time changes so that they can adjust their alarm settings. To work around this problem, you need to call [PDSystemAdapter.RebootSystem\(\)](#), which causes a soft-reset of the handheld after the HotSync operation completes. All applications on the handheld are notified of the reset and can make any necessary adjustments.

IMPORTANT: In HotSync Manager versions 6.0 and later (Sync Manager versions 2.4 and later), setting the system time works only if the handheld is running Palm OS Cobalt. For Palm OS versions earlier than Palm OS Cobalt, setting the time returns an E_NOTIMPL error.

Example

```
Dim pSystem as New PDSystemAdapter
Dim dtNow as Date
dtNow = pSystem.DateTime
```

DaysMaskForWeeklyRepeat

Purpose	Mask indicating which days of the week on which a weekly repeating event occurs in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property DaysMaskForWeeklyRepeat As Integer
Comments	This value of this property is a bitfield representation from Sunday through Saturday. Each bit set to 1 indicates that the event repeats on the corresponding day each week. When all bits are set to 1, the event repeats weekly on every day of the week.

Bit	7	6	5	4	3	2	1	0
Day	Sat	Fri	Thurs	Wed	Tues	Mon	Sun	All ¹

1. Set bit 0 and all other bits to indicate that the event repeats weekly on all days of the week.

If the [IsEventRepeatable](#) property is false, then the value of this property is not valid.

Properties

DbFlags

DbFlags

Purpose Database flags that are set at creation time. You can combine the database flag constants together to specify information about a database. Each flag indicates a property or condition of the database.

Applies to [DmDatabaseInfo](#), [PDDatabaseInfo](#) objects.
[EDbFlags](#) constants.

Accessibility Read-only.

Prototype Property **DbFlags** as Long
Property **DbFlags** as EDbflags

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' Get the database flags
Dim DbFlags as EDbflags
DbFlags = DbInfo.DbFlags
```

DbIndex

Purpose	Database index in the total set of classic databases.
Applies to	PDDatabaseInfo object.
Accessibility	Read-only.

Prototype Property **DbIndex** as Long

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' Get the database Index
Dim DbIndex as Long
DbIndex = DbInfo.DbIndex
```

DbName

Purpose	Name of this object's associated database on the handheld.
Applies to	DmCategories , DmDatabaseInfo , DmRecordAdapter , PDDatabaseInfo , PDRecordAdapter , PDCategories , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Accessibility	Read-only.

Prototype Property **DbName** as String

Example

```
Dim DbQuery As New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _
    eWrite)
' Check the database name
Dim DbName as String
DbName = Adapter.DbName
```

Properties

DbType

DbType

Purpose	The database type .
Applies to	DmDatabaseInfo , PDDatabaseInfo , PDHotsyncInfo objects.
Accessibility	Read-only.
Prototype	Property DbType as Long
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the database Type Dim DbType as String DbType = DbInfo.DbType</pre>

Description

Purpose	Text describing a Date Book event or a To Do List item.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property Description As String

DeskTopDataDirectory

Purpose	Name of this conduit's data directory.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property DeskTopDataDirectory as String
Comments	<p>This is the name of a subdirectory in the user's directory on the desktop computer (not a fully qualified path). Within each user's directory, each conduit can have a directory for file storage. For example, if the <code>Directory</code> value is "DateBook", then its path is typically <code>C:\Documents and Settings\<WinUsername>\My Documents\Palm OS Desktop\<HotSyncUsername>\DateBook</code>. It could hold support files, such as record ID mapping files, needed to accurately perform a record-level synchronization with a third-party database.</p> <p>HotSync Manager passes the value to which you set this property back to your conduit when it calls IPDClientNotify.BeginProcess() method.</p> <p>This property is optional for all conduits and all versions of HotSync Manager.</p>

Properties

DeskTopDataFile

DeskTopDataFile

Purpose	Name of the desktop data file that your conduit synchronizes with the handheld database.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property DeskTopDataFile as String
Comments	<p>You can write your conduit to synchronize with more than the one file specified here, however. You can use the SetStringData() and GetStringData() methods to create your own configuration entries in which to store additional desktop filenames.</p> <p>Note that this configuration entry can be either a full path and filename, or only a filename. If the value is only a filename, the file can be found in the directory specified by the DeskTopDataDirectory property.</p> <p>HotSync Manager passes the value to which you set this property back to your conduit when it calls the IPDClientNotify.BeginProcess() method.</p> <p>This property is optional for all conduits and all versions of HotSync Manager.</p>

DeviceClass

Purpose	Describes the name of the type of expansion card.
Applies to	PDExpansionCardInfo object.
Accessibility	Read-only.
Prototype	Property DeviceClass As String
Comments	Examples of device class names are "Backup" and "Ethernet."

DeviceUniqueId

Purpose	Unique identifier for an expansion card product.
Applies to	PDExpansionCardInfo object.
Accessibility	Read-only.
Prototype	Property DeviceUniqueId As String
Comments	An example of the use of this property is as a serial number for the card. This value is set to the empty string ("") if no identifier exists.

Directory

Purpose	Name of the install directory associated with this install conduit .
Applies to	PDInstallConduitInfo object.
Accessibility	Read/write.
Prototype	Property Directory as String
Comments	<p>This is a subdirectory in the user's directory on the desktop computer. The Install Aide API copies files here to be installed during the next HotSync operation. For more information, see "Install Directory Terminology" on page 60 in the <i>COM Sync Suite Companion</i>.</p> <p>This property is <i>required</i> for all install conduits.</p>

Properties

Dirty

Dirty

Purpose	Category dirty flag specified by category index.
Applies to	DmCategories , PDCategories objects.
Accessibility	Read/write.
Prototype	Property Dirty (ByVal <i>nIndex</i> As Long) As Boolean
Parameters	→ <i>nIndex</i> Category index.
Example	<pre>Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _ eWrite) ' Get the categories object Dim Categories as PDCategories Set Categories = Adapter.PDCategories ' Do Something with dirty categories Dim Idx as Integer For Idx = 0 to 15 If Categories.Dirty(Idx) then ' Do something here End If Next</pre>

DisplayName

Purpose	User-visible name of this conduit.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property DisplayName as String
Comments	HotSync Manager displays this string as the name of the conduit in its user interface—for example, in the Custom dialog box. If you do not set this entry, HotSync Manager shows the name that your conduit provides when called (by <code>GetConduitInfo</code> or <code>GetConduitName</code> in C/C++ Sync, <code>Conduit::name()</code> in JSync, or <code>IPDClientNotify->GetConduitInfo()</code> in COM Sync).

This property is optional for all conduits and all versions of HotSync Manager.

Properties

DisplayName

DisplayName

Purpose	Display name of this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property DisplayName As String
Parameters	None.
Comments	Palm OS Cobalt uses the display name of a database, if it is defined; otherwise, they use the internal name (defined by the Name property). Database names must consist of only 7-bit ASCII characters from 0x20 through 0x7E. The maximum length of a database name is 32 characters, which includes a terminator character managed by the COM Sync module.

DisplayPhone

Purpose	Contact information to display in the Address Book list view.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property DisplayPhone As EPDDisplayPhone
Comments	This property is one of the EPDDisplayPhone values. For example, if you specify a DisplayPhone value of EPDPhoneLabel1, then the contact information that displays in the Address Book list view is that specified by the EPDPhoneLabels value stored in the PhoneLabel1 property.
See Also	EPDDisplayPhone , EPDPhoneLabels

DmCategories

- Purpose** Returns a [DmCategories](#) object representing the categories in this extended database.
- Applies to** [DmRecordAdapter](#) object.
- Accessibility** Read-only.

Prototype Property **DmCategories** As DmCategories

Example

```
Dim DbQuery As New DmDatabaseQuery
Dim Adapter As DmRecordAdapter
Dim PDCondMgr As New PDCondMgr
Dim CreatorID As Long

' Convert creator ID string to a Long.
CreatorID = PDCondMgr.StringToCreatorID("MyCr")
' Open the your database
Set Adapter = DbQuery.OpenRecordDatabase("MyExtDatabase", _
    CreatorID, "DmConduit.DmRecordAdapter", eRead Or eWrite)
' Get the categories object
Dim Categories as DmCategories
Set Categories = Adapter.DmCategories
' Add a new category
Dim NewIndex As Integer
Do While Category.Name(NewIndex) <> ""
    NewIndex = NewIndex + 1
Loop
Category.Name(NewIndex) = "New Name"
Category.Id(NewIndex) = Category.LastId
Category.LastId = Category.LastId + 1
Category.Save
```

See Also [DmCategories](#) object.

Properties

DmDatabaseInfo

DmDatabaseInfo

Purpose	Returns a DmDatabaseInfo object representing information about this extended database.
Applies to	DmDatabaseQuery , DmRecordAdapter objects.
Accessibility	Read-only.
Prototype	Property DmDatabaseInfo As DmDatabaseInfo
Example	<pre>Dim DbQuery as New DmDatabaseQuery Dim Adapter As DmRecordAdapter Dim PDCondMgr As New PDCondMgr Dim CreatorID As Long ' Convert creator ID string to a Long. CreatorID = PDCondMgr.StringToCreatorID("MyCr") ' Open your database Set Adapter = DbQuery.OpenRecordDatabase("MyExtDatabase", _ CreatorID, "DmConduit.DmRecordAdapter", eRead Or eWrite) ' Get the database information object Dim DbInfo as DmDatabaseInfo Set DbInfo = Adapter.DmDatabaseInfo</pre>
See Also	DmDatabaseInfo object.

DueDate

Purpose	Due date of a To Do List item.
Applies to	PDToDoDbHHRRecord object.
Accessibility	Read/write.
Prototype	Property DueDate As Date

Dynamic

Purpose	Flag that indicates whether a column in a schema is dynamic.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property Dynamic As Boolean
Parameters	None.
Comments	If True, the column is dynamic; if False, it is not.

Encoding

Purpose	Type of character encoding of text data in a schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property Encoding As EPSEncodingType
Parameters	None.
Comments	This property has one of the EPSEncodingType values.

EndTime

Purpose	Time and date on which an event ends in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property EndTime As Date
Comments	The PDDateBookDbHHRecord object cannot handle event end times earlier than 12/31/1969 4:00:00 PM, which is the earliest date supported by the Date Book application.

Properties

EOF

EOF

Purpose Database iterator is at the end of the database; for a file on an expansion card, the file pointer has reached the end of the file; for a set of rows in a schema database, the cursor is at the end of the row set.

Applies to [DmRecordAdapter](#), [PDRecordAdapter](#), [PDResourceAdapter](#), [PDVFSFileManager](#), [PDAAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#), [PSDRowSet](#) objects.

Accessibility Read-only.

Prototype Property **EOF** as Boolean

Comments For a database in a handheld's primary storage, this property is True when the database iterator has reached the end of the database. For a file on expansion cards, this property is True when the file pointer has reached the end of the file (this property is not valid for directories). For a set of rows in a schema database, this property is True when the cursor has reached the end of the row set in a schema database.

Example For [DmRecordAdapter](#), [PDRecordAdapter](#), and [PDResourceAdapter](#) objects:

```
Dim DbQuery As New PDDatabaseQuery
Dim Adapter As PDRecordAdapter

' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead _
    Or eWrite)

Dim Index As Long
Dim UniqueId As Long
Dim Category As Byte
Dim Attributes As Byte
Dim Data As Variant

' Set the iteration index.
Adapter.IterationIndex = 10
```



```
' Read the next unfiled record
Category = 0
Data = Adapter.ReadNextInCategory(Index, _
    UniqueId, Category, Attributes)

' Read another if it's not at EOF
If Not Adapter.EOF Then
    Data = Adapter.ReadNextInCategory(Index, _
        UniqueId, Category, Attributes)
End If
```

ExcludeFromSync

Purpose	Determines whether this database is excluded from synchronization.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property ExcludeFromSync as Boolean

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' Has this database been excluded from sync?
Dim Exclude as Boolean
Exclude = DbInfo.ExcludeFromSync
' Do something if its not excluded
If not Exclude then
Endif
```

Extension

Purpose	The file type extensions of the files that this install conduit can install.
Applies to	PDInstallConduitInfo object.
Accessibility	Read/write.
Prototype	Property Extension as String
Comments	<p>This string is in the standard Windows CFileDialog format—for example,</p> <pre>Palm Applications (*.prc) *.prc Palm Databases (*.pdb) *.pdb Palm Query Application (*.pqa) *.pqa</pre> <p>This property is <i>required</i> for all install conduits.</p>

FileName

Purpose	Filename of this conduit DLL.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property FileName as String
Comments	<p>This is the filename of the DLL that HotSync Manager loads to run this conduit. If this entry is only a filename, the DLL must be in the HotSync Manager directory or in the current Windows PATH. If it is a path and filename, you can put the DLL in any directory.</p> <p>If this conduit is a C API-based conduit, you must set this property to the filename of the conduit DLL you created with the C/C++ Sync Suite.</p> <p>If this conduit is a COM-based conduit, you must set this property to <code>COMConduit.dll</code> so that the COM Sync module is loaded when your conduit needs to run.</p> <p>If this conduit is a Java-based conduit, you must set this property to <code>jsync13.dll</code> for conduits developed with CDK 4.02 or later; it must be <code>jsync.dll</code> if your conduit must work with a version of the JSync module prior to the one that ships with CDK 4.02. For more information, see the <i>JSync Suite Companion</i>.</p>

FileSystemType

Purpose	Type of file system on this volume on an expansion card.
Applies to	PDVFSVolumeManager object.
Accessibility	Read-only.
Prototype	Property FileSystemType As EPDVFSFileSystemType
Comments	This property is one of the EPDVFSFileSystemType constants defined in “ EPDVFSFileSystemType ” on page 554.

Properties

FirstName

FirstName

Purpose	Content of the “First name” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property FirstName As String

FirstSync

Purpose	An EFirstSync value that indicates whether the current HotSync operation is the first for the handheld, the first with the current desktop, or the first for neither.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property FirstSync as EFirstSync
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the first sync flag Dim FirstSync as EFirstSync FirstSync = HSInfo.FirstSync</pre>
Comments	When a synchronization is initiated, HotSync manager will detect a <i>first sync</i> on the handheld or desktop and set this property prior to calling a conduit.
See Also	EFirstSync constants.

Flags

Purpose	Flags that indicate whether this schema database is excluded from HotSync operations and whether it is in RAM on the handheld.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property Flags As Long
Parameters	None.
Comments	This property can have one or more of the values defined in “ Database Information Flags ” on page 534.

FreeRamSize

Purpose	Amount of available RAM on the card in bytes.
Applies to	PDMemoryCardInfo object.
Accessibility	Read-only.
Prototype	Property FreeRamSize as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim memCard as PDMemoryCardInfo Set memCard = pSystem.PDMemoryCardInfo ' Get the free RAM size Dim FreeRam as Long FreeRam = MemCard.FreeRamSize</pre>

Properties

HandHeldDB

HandHeldDB

Purpose	Name of the database on the handheld that this conduit accesses.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property HandHeldDB as String
Comments	<p>This optional entry can be used by conduits that are not hard-coded with specific database names. This value is passed to the conduit to enable it to open the database on the handheld. A conduit can also use this name to create the database on the handheld if the database did not exist before synchronization. Database names are case-sensitive.</p> <p>HotSync Manager passes the value to which you set this property back to your conduit when it calls the IPDClientNotify.BeginProcess() method.</p> <p>This property is optional for all conduits and all versions of HotSync Manager.</p>

ID

Purpose	Column ID of a column in a schema.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property ID As Long
Parameters	None.

Index

Purpose	Position of this record in its PIM database.
Applies to	PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read-only.
Prototype	Property Index As Long
Comments	<p>Though this property is read/write, you should not write this property. Always let the handheld control its value.</p> <p>This index also indicates the current sort order of this record in the database.</p>

InputBufferSize

Purpose	Size of the buffer to allocate to read classic record or resource database data or extended database data. All methods that read classic or extended databases use this property.
Applies to	DmRecordAdapter , PDRecordAdapter , PDResourceAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Accessibility	Read/write.
Prototype	Property InputBufferSize as Long
Comments	<p>This property specifies the maximum record size in bytes to be read. This property is used by all of the methods that read classic or extended database records.</p>

Properties

InputBufferSize

Example

```
Dim DbQuery As New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _
    eWrite)
Dim Index As Long
Dim UniqueId As Variant
Dim Category As Long
Dim Attributes As Long
Dim Data As Variant
' Read a very large record
Adapter.InputBufferSize = 64000
Data = Adapter.ReadByIndex(0, UniqueId, Category, Attributes)
```

IsAlarmSet

Purpose	Indicates whether the alarm is set for this event in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property IsAlarmSet As Boolean
Comments	If True, the alarm is set; if False, it is not set.

IsArchived

Purpose	Indicates whether a PD<PIM>DbHHRecord record is marked to be archived.
Applies to	PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property IsArchived As Boolean
Comments	If True, this record's archive bit is set. If False, the archive bit is clear.

IsCompleted

Purpose	Indicates whether a To Do List item is completed.
Applies to	PDToDoDbHHRecord object.
Accessibility	Read/write.
Prototype	Property IsCompleted As Long
Comments	If True, this item is completed. If False, it is not. Note that this property is stored as a Long, not a Boolean.

Properties

IsDataPresent

IsDataPresent

Purpose	Flag that indicates whether a column in this row contains valid data.
Applies to	PSDRowData object.
Accessibility	Read-only.
Prototype	Property IsDataPresent (ByVal <i>ColumnID</i> As Long) As Boolean
Parameters	→ <i>ColumnID</i> The column ID of a column in this row.
Comments	If True, the specified column in this row contains data; if False, it does not.

IsDeleted

Purpose	Indicates whether a PD<PIM>DbHHRecord record is marked to be deleted.
Applies to	PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property IsDeleted As Boolean
Comments	If True, this record's delete bit is set. If False, the delete bit is clear.

IsDirty

Purpose	Indicates whether a PD<PIM>DbHHRecord record is has been modified since the last synchronization.
Applies to	PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property IsDirty As Boolean
Comments	If True, this record's dirty bit is set, indicating that it has been modified. If False, the dirty bit is clear.

IsEventNotTimed

Purpose	Indicates whether a time is specified for this event in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property IsEventNotTimed As Boolean
Comments	If True, no time is specified (Date Book ignores the values of the StartTime and EndTime properties); if False, the values of the those properties are used to time the event.

IsEventRepeatable

Purpose	Indicates whether this event repeats in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property IsEventRepeatable As Boolean
Comments	If True, this is a repeating event (DateBook uses the values of the Repeat* properties); if False, the values of these properties are invalid.
See Also	RepeatDay , RepeatEndDate , RepeatFrequency , RepeatType properties.

IsPrivate

Purpose	Flag that indicates whether this row is marked private.
Applies to	PSDRowData object.
Accessibility	Read/write.
Prototype	Property IsPrivate As Boolean
Parameters	None.
Comments	If True, the this row is marked private; if False, it is not.

Properties

IsPrivate

IsPrivate

Purpose	Indicates whether a PD<PIM>DbHHRecord record is marked as private.
Applies to	PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property IsPrivate As Boolean
Comments	If True, this record's secret bit is set, indicating that it is private. If False, the secret bit is clear.

IsRam

Purpose	Determines whether a database is stored in RAM or ROM.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Comments	Returns True if database is stored in RAM, returns False if stored in ROM.
Prototype	Property IsRam as Boolean

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' RAM or ROM database
if DbInfo.IsRam Then
    ' do something
EndIf
```

IsReadOnly

Purpose	Flag that indicates whether this row is marked read-only.
Applies to	PSDRowData object.
Accessibility	Read/write.
Prototype	Property IsPrivate As Boolean
Parameters	None.
Comments	If True, this row is marked read-only; if False, it is not. However, if a column's WritableExceptionInReadOnlyRows property is True, then its column value can be modified even if the row's IsReadOnly property is True.

IsReadOnlyDatabase

Purpose	Flag that indicates whether this schema database is read-only.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property IsReadOnlyDatabase As Boolean
Parameters	None.
Comments	If True, this schema database is read-only. If False, it is read-write.

IsSecureDatabase

Purpose	Flag that indicates whether this schema database is secure.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property IsSecureDatabase As Boolean
Parameters	None.
Comments	If True, this schema database is secure. If False, it is not.

Properties

IterationIndex

IterationIndex

Purpose	Current starting index for the record/resource data iteration methods.
Applies to	DmRecordAdapter , PDRecordAdapter , PDResourceAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Accessibility	Read/write.
Prototype	Property IterationIndex as Long
Example	<pre>Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase ("MemoDB", _ eRead Or eWrite) Dim Index As Long Dim UniqueId As Variant Dim Category As Long Dim Attributes As Long Dim Data As Variant ' Set the iteration index to the first record Adapter.IterationIndex = 0 ' Read the next modified record Data = Adapter.ReadNextModified(Index, UniqueId, Category, _ Attributes)</pre>

JavaClassName

Purpose	Full name of the Java-based conduit class (including package).
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property JavaClassName as String
Comments	This property is <i>required</i> for all Java-based conduits; other conduits (including all COM-based conduits) ignore it.

JavaClassPath

Purpose	Directory that contains all the classes used by this Java-based conduit.
Applies to	PDConduitInfo object.
Accessibility	Read/write.
Prototype	Property JavaClassPath as String
Comments	<p>This is the value of CLASSPATH required to find all the classes invoked by a Java-based conduit. The CLASSPATH setting in the Windows environment variable (NT) or autoexec.bat files is <i>ignored</i> by the Java-based conduit at runtime. (Conduits written for an older version of the JSync module based on JRE 1.1.3 use the ClassPath entry instead. All conduits written for JSync based on JRE 1.3 must use the ClassPath13).</p> <p>This property is <i>required</i> for all Java-based conduits; other conduits (including all COM-based conduits) ignore it.</p>

Properties

Label

Label

Purpose	Label of this volume on an expansion card.
Applies to	PDVFSVolumeManager object.
Accessibility	Read/write.
Prototype	Property Label1 As String
Comments	Volume reference numbers can change each time the handheld mounts a given volume. To keep track of a particular volume from one HotSync operation to the next, save the volume's label rather than its reference number. Volume labels can be up to 255 characters long. They can contain any normal character, including spaces and lowercase characters, in any character set as well as the following special characters: \$ % ' - _ @ ~ ` ! () ^ # & + , ; = []. See " Naming Volumes " on page 95 in the <i>COM Sync Suite Companion</i> for guidelines on naming.

NOTE: Most conduits should not need to set this property. Setting this property may create or delete a file in the root directory, which would invalidate any current calls to [GetFileList\(\)](#).

LastAccessedDate

Purpose	Last accessed date of a file or a directory on an expansion card.
Applies to	PDVFSFileManager object.
Accessibility	Read/write.
Prototype	Property LastAccessedDate As Date

LastId

Purpose	Category ID of the last new category.
Applies to	DmCategories , PDCategories objects.
Accessibility	Read/write.
Prototype	Property LastId as Byte
Example	<pre>Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _ eWrite) ' Get the categories object Dim Categories as PDCategories Set Categories = Adapter.PDCategories ' Add a new category Dim Idx as Integer For Idx = 0 to 15 If Categories.Name(Idx) = "" then Categories.Name(Idx) = "New Category" Categories.Dirty(Idx) = True Categories.Id(Idx) = Categories.LastId Categories.LastId = Categories.LastId + 1 Categories.Save ' All done End If Exit For Next</pre>

LastModificationDate

Purpose	Last modification date of a file or a directory on an expansion card.
Applies to	PDVFSFileManager object.
Accessibility	Read/write.
Prototype	Property LastModificationDate As Date

Properties

LastName

LastName

Purpose	Content of the “Last name” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property LastName As String

LastSyncDate

Purpose	Last synchronization date.
Applies to	PDUserInfo object.
Accessibility	Read-only.
Prototype	Property LastSyncDate as Date

Example

```
Dim pSystem as PDSystemAdapter
Dim UserInfo as PDUserInfo
' Get the user info object
Set UserInfo = pSystem.PDUserInfo
' Get the Last sync date
Dim LastSyncDate as Date
LastSyncDate = UserInfo.LastSyncDate
```

LastSyncPC

Purpose	ID assigned by HotSync Manager of the last PC that was synchronized with this handheld.
Applies to	PDUserInfo object.
Accessibility	Read-only.
Prototype	Property LastSyncPC as Long

Example

```
Dim pSystem as PDSystemAdapter
Dim UserInfo as PDUserInfo
' Get the user info object
Set UserInfo = pSystem.PDUserInfo
' Get the Last PC to sync with this handheld
Dim LastSyncPC as Long
LastSyncPC = UserInfo.LastSyncPC
```

LocalizationId

Purpose	Localization ID, currently unused.
Applies to	PDSystemAdapter object.
Accessibility	Read-only.
Prototype	Property LocalizationId as Long
Example	<pre>Dim pSystem as New PDSystemAdapter Dim nLocalId as Long nLocalId = pSystem.LocalizationId</pre>

LocalName

Purpose	The desktop file that the conduit synchronizes with. This value is set in the conduit's File configuration entry.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property LocalName as String
Example	<pre>Dim pSystem as New PDSystemAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the local (PC) filename Dim LocalName as String LocalName = HSInfo.LocalName</pre>

ManufacturerName

Purpose	Name of the manufacturer of the expansion card.
Applies to	PDExpansionCardInfo object.
Accessibility	Read-only.
Prototype	Property ManufacturerName As String

Properties

ManufName

ManufName

Purpose	Memory card manufacturer's name.
Applies to	PDMemoryCardInfo object.
Accessibility	Read-only.
Prototype	Property ManufName as String

Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the card manufacturer name Dim Name as String Name = MemCard.ManufName</pre>
----------------	---

Mask

Purpose	Unique bit mask value associated with this install conduit .
Applies to	PDInstallConduitInfo object.
Accessibility	Read/write.
Prototype	Property Mask as String
Comments	<p>HotSync Manager uses this mask value to identify your install conduit. Your installer is responsible for ensuring that this value is unique. See "Registering an Install Conduit" on page 66 in the <i>COM Sync Suite Companion</i>.</p> <p>This property is <i>required</i> for all install conduits.</p>

MaxAllowedRecordSize

Purpose	Size in bytes of the largest record allowed in a classic or extended database on the handheld.
Applies to	DmDatabaseQuery , PDDatabaseQuery object.
Accessibility	Read-only.
Prototype	Property MaxAllowedRecordSize as Long
Comments	Table 5.1 lists the maximum record size supported by versions of Palm OS.

Table 5.1 Maximum record size for non-schema databases

Database Type	Maximum Record Size (bytes)
Extended	$2^{26} - 16$ (~64 MB)
Classic	65,505 for Palm OS versions 3.0 and later 64,720 for Palm OS versions earlier than 3.0

NOTE: Sync Manager versions 2.4 and later return only the value 65,505 for classic databases regardless of the version of Palm OS on the handheld.

Example	<pre>Dim DbQuery as New PDDatabaseQuery ' Get the Max allowed record size Dim MaxRecSize as Long MaxRecSize = DbQuery.MaxAllowedRecordSize</pre>
----------------	--

MaxRecordSize

Purpose	Size of the largest record in this database.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property MaxRecordSize as Long
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the largest record size Dim MaxRecordSize as Long MaxRecordSize = DbInfo.MaxRecordSize</pre>

MaxSize

Purpose	Maximum size of a column in a schema.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property MaxSize As Long
Parameters	None.
Comments	The value of this property is not valid for columns of fixed-size data types—for example, PSDInt32.

Media Type

Purpose	Type of media supported by the expansion card.
Applies to	PDExpansionCardInfo and PDVFSVolumeManager objects.
Accessibility	Read-only.
Prototype	Property Media Type As Long
Comments	<p>This property may have a value of one of the constants defined in “VFS Manager and Expansion Manager Media Type Constants” on page 575. Because this read-only property returns a value of type Long, you can use the PDCondMgr.CreatorIDToString() method to convert it to one of the string values defined in that section.</p> <p>These values specify whether the supported media type is any or only one of several, such as Secure Digital, CompactFlash, or others.</p>

Example

```
Private Function GetMediaType() As String

    Dim ExpansionSlot As New PDExpansionManager
    Dim CardInfo As PDExpansionCardInfo
    Dim IsCardPresent As Boolean
    Dim IsVolumeMounted As Boolean
    Dim VolumeRef As Long
    Dim SlotNumbers As Variant
    Dim Convert As New PDCondMgr
    Dim i As Integer
    Dim strMediaType As String

    If ExpansionSlot.IsExpansionSlotPresent Then
        ' Get a list of all available slots
        SlotNumbers = ExpansionSlot.GetSlotReferenceNumbers

        For i = 0 To UBound(SlotNumbers)
            Call ExpansionSlot.GetSlotInfo(SlotNumbers(i), _
                IsCardPresent, IsVolumeMounted, VolumeRef)
            If IsCardPresent Then Exit For
        Next i

        ' Inform the user that none of the found slots
        ' contained a card.
        If Not IsCardPresent Then
            MsgBox "No expansion card present.", vbInformation, _
                "Information"
            Exit Function
        End If
    End If
End Function
```

Properties

MediaType

```
End If

' Retrieve card information.
Set CardInfo = _
    ExpansionSlot.GetCardInfo(SlotNumbers(i))

' Convert the MediaType to string.
strMediaType = _
    Convert.CreatorIDToString(CardInfo.MediaType)

Select Case strMediaType
    Case "sdig"
        strMediaType = "Secure Digital"
    Case "mstk"
        strMediaType = "Memory Stick"
    Case "cfsh"
        strMediaType = "Compact Flash"
    Case "mmcd"
        strMediaType = "Multimedia Card"
    Case "smed"
        strMediaType = "Smart Media"
    Case "ramd"
        strMediaType = "RAM Disk"
    Case "pose"
        strMediaType = "Palm OS Emulator"
    Case "pnps"
        strMediaType = "Universal PnP"
    Case Else
        strMediaType = "Unknown"
End Select

' Assign return value.
GetMediaType = strMediaType
End If

End Function
```

Memo

Purpose	Content of a Memo Pad record.
Applies to	PDMemoDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Memo As String

ModCount

Purpose	Database modification count.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property ModCount as Long
Comments	This value is incremented every time a record in the database is added, modified, or deleted on the handheld.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the modification count Dim ModCount as Long ModCount = DbInfo.ModCount</pre>
----------------	--

Properties

ModDate

ModDate

Purpose	Last modification date.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property ModDate as Date

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' Get the last modification date
Dim ModDate as Date
ModDate = DbInfo.ModDate
```

ModifyDate

Purpose	Date on which this schema database was most recently modified.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property ModifyDate As Date
Parameters	None.

ModifyNumber

Purpose	The database modification number, which is incremented every time a row in this schema database is added, modified, or deleted on the handheld.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property ModifyNumber As Long
Parameters	None.

Module

Purpose	Filename of this install conduit .
Applies to	PDInstallConduitInfo object.
Accessibility	Read/write.
Prototype	Property Module as String
Comments	This property specifies the filename of this install conduit—for example, <code>inscn20.dll</code> . HotSync Manager looks for this file first in the HotSync executable path, then in the paths specified by the Windows PATH environment variable. This property is <i>required</i> for all install conduits and all versions of HotSync Manager.

mountClass

Purpose	Mount class of the file system driver that mounted this volume on an expansion card.
Applies to	PDVFSVolumeManager object.
Accessibility	Read-only.
Prototype	Property mountClass As Long
Comments	This property is set to one of the constants described in “ VFS Volume Mount Class Constants ” on page 577. Because this read-only property returns a value of type Long, you can use the PDCondMgr.CreatorIDToString() method to convert it to one of the string values defined in that section.

Properties

Name

Name

Purpose	User-visible name of this install conduit .
Applies to	PDInstallConduitInfo object.
Accessibility	Read/write.
Prototype	Property Name as String
Comments	<p>HotSync Manager displays this string as the name of an install conduit. If you do not set this entry, HotSync Manager shows the name your conduit provides when called (by <code>GetConduitInfo</code> or <code>GetConduitName</code> in C/C++ Sync, <code>Conduit::name()</code> in JSync, or <code>IPDClientNotify->GetConduitInfo()</code> in COM Sync).</p> <p>This property is optional for all install conduits and all versions of HotSync Manager.</p>

Name

Purpose	Category name specified by category index.
Applies to	DmCategories , PDCategories objects.
Accessibility	Read/write.
Prototype	Property Name (ByVal <i>nIndex</i> As Long) As String
Parameters	→ <i>nIndex</i> Category index.
Errors	eDuplicateName The specified category name already exists.
Example	<pre> Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDBRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _ eWrite) ' Get the categories object Dim Categories as PDCategories Set Categories = Adapter.PDCategories ' Add a new category Dim Idx as Integer For Idx = 0 to 15 If Categories.Name(Idk) = "" then Categories.Name(Idk) = "New Category" Categories.Dirty(Idk) = True Categories.Id(Idk) = Categories.LastId Categories.LastId = Categories.LastId + 1 Categories.Save ' All done Exit For End If Next </pre>

Properties

Name

Name

Purpose	Category name specified by category ID in a schema database.
Applies to	PSDCategoryAdapter object.
Accessibility	Read-only.
Prototype	Property Name (ByVal <i>CategoryID</i> As Long) As String
Parameters	→ <i>CategoryID</i> Specifies the category ID of the category.

Name

Purpose	Name of a column in a schema.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property Name As String
Parameters	None.

Name

Purpose	Internal name of this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property Name As String
Parameters	None.
Comments	Palm OS Cobalt uses the display name of a schema database (defined by the DisplayName property), if it is defined; otherwise, they use the internal name defined by this property. Database names must consist of only 7-bit ASCII characters from 0x20 through 0x7E. The maximum length of a database name is 32 characters, which includes a terminator character managed by the COM Sync module.

Name

Purpose	Name of this table in a schema database.
Applies to	PSDTable object.
Accessibility	Read/write.
Prototype	Property Name As String
Parameters	None.

NameList

Purpose	List of the handheld databases that have the same creator ID as the current conduit. The number of items in the array is specified by the RemoteNameCount property.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property NameList as Variant
Example	<pre>Dim pSystem as New PDSystemAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the database name list to synchronize Dim NameList as Variant NameList = HSInfo.NameList ' Loop and process Dim Idx as Integer For Idx = 0 to HSInfo.RemoteNameCount ' Do something with NameList(Idx) Next</pre>

Properties

NonSyncable

NonSyncable

Purpose	Flag that indicates whether the data in a column is to be synchronized.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property NonSyncable As Boolean
Parameters	None.
Comments	If True, the column data is <i>not</i> to be synchronized; if False, it is to be synchronized. The Data Manager on the handheld does not track changes to data in a nonsyncable column in a schema database.

Notes

Purpose	Content of the note in an Address Book, Date Book, or To Do List record.
Applies to	PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property Notes As String

Password

Purpose	Encrypted handheld password.
Applies to	PDUserInfo object.
Accessibility	Read-only.
Prototype	Property Password as String
Example	<pre>Dim pSystem as PDSYSTEMAdapter Dim UserInfo as PDUserInfo ' Get the user info object Set UserInfo = pSystem.PDUserInfo ' Get the password Dim password as String Password = UserInfo.Password</pre>

PathName

Purpose	The conduit's directory name. This value is set in the conduit's Directory configuration entry.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property PathName as String
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the local (PC) path name Dim PathName as String PathName = HSInfo.PathName</pre>

Properties

PDCategories

PDCategories

Purpose Returns a [PDCategories](#) object representing the categories in this database.

Applies to [PDRecordAdapter](#), [PDAddressDbHHRecordAdapter](#), [PDDateBookDbHHRecordAdapter2](#), [PDDateBookDbHHRecordAdapter](#), [PDMemoDbHHRecordAdapter](#), [PDToDoDbHHRecordAdapter](#) objects.

Accessibility Read-only.

Prototype Property **PDCategories** as PDCategories

Example

```
Dim DbQuery As New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _
    eWrite)
' Get the categories object
Dim Categories as PDCategories
Set Categories = Adapter.PDCategories
' Add a new category
Dim NewIndex As Integer
Do While Category.Name(NewIndex) <> ""
    NewIndex = NewIndex + 1
Loop
Category.Name(NewIndex) = "New Name"
Category.Id(NewIndex) = Category.LastId
Category.LastId = Category.LastId + 1
Category.Save
```

See Also [PDCategories](#) object.

PDDatabaseInfo

Purpose	Returns a PDDatabaseInfo object representing information about this database.
Applies to	PDDatabaseQuery , PDRecordAdapter , PDResourceAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Accessibility	Read-only.
Prototype	Property PDDatabaseInfo as PDDatabaseInfo
Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo</pre>
See Also	PDDatabaseInfo object.

PDHotsyncInfo

Purpose	Returns a PDHotsyncInfo object representing information about the current HotSync session.
Applies to	PDSystemAdapter object.
Accessibility	Read-only.
Prototype	Property PDHotsyncInfo as PDHotsyncInfo
Example	<pre>Dim pSystem as New PDSystemAdapter Dim HSInfo as PDHotsyncInfo ' Get the HotsyncInfo object Set HSInfo = pSystem.PDHotsyncInfo</pre>
See Also	PDHotsyncInfo object.

Properties

PDMemoryCardInfo

PDMemoryCardInfo

Purpose	Returns a PDMemoryCardInfo object representing information about the handheld's primary storage (called a "memory card").
Applies to	PDSystemAdapter object.
Accessibility	Read-only.
Prototype	Property PDMemoryCardInfo ([<i>nCard</i> as Long = 0]) as PDMemoryCardInfo
Parameters	\leftarrow <i>nCard</i> The memory card number.
Example	<pre>Dim pSystem as New PDSystemAdapter Dim MemCard as PDMemoryCardInfo ' Get the MemoryCardInfo object Set MemCard = pSystem.PDMemoryCardInfo</pre>
See Also	PDMemoryCardInfo object.

PDUserInfo

Purpose	Returns a PDUserInfo object representing information about the current handheld user.
Applies to	PDSystemAdapter object.
Accessibility	Read-only.
Prototype	Property PDUserInfo as PDUserInfo
Example	<pre>Dim pSystem as New PDSystemAdapter Dim UserInfo as PDUserInfo ' Get the UserInfo object Set UserInfo = pSystem.PDUserInfo</pre>
See Also	PDUserInfo object.

Phone1

Purpose	Content of the Phone 1 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Phone1 As String

Phone2

Purpose	Content of the Phone 2 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Phone2 As String

Phone3

Purpose	Content of the Phone 3 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Phone3 As String

Phone4

Purpose	Content of the Phone 4 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Phone4 As String

Properties

Phone5

Phone5

Purpose	Content of the Phone 5 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Phone5 As String

PhoneLabel1

Purpose	Name of the Phone 1 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property PhoneLabel1 As EPDPhoneLabels
Comments	This property can be set to any of the EPDPhoneLabels values.
See Also	Phone1 property.

PhoneLabel2

Purpose	Name of the Phone 2 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property PhoneLabel2 As EPDPhoneLabels
Comments	This property can be set to any of the EPDPhoneLabels values.
See Also	Phone2 property.

PhoneLabel3

Purpose	Name of the Phone 3 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property PhoneLabel3 As EPDPhoneLabels
Comments	This property can be set to any of the EPDPhoneLabels values.
See Also	Phone3 property.

PhoneLabel4

Purpose	Name of the Phone 4 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property PhoneLabel4 As EPDPhoneLabels
Comments	This property can be set to any of the EPDPhoneLabels values.
See Also	Phone4 property.

PhoneLabel5

Purpose	Name of the Phone 5 field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property PhoneLabel5 As EPDPhoneLabels
Comments	This property can be set to any of the EPDPhoneLabels values.
See Also	Phone5 property.

Properties

Priority

Priority

Purpose	For PDConduitInfo objects, execution priority for this conduit. For PDToDoDbHHRecord objects, the priority of this To Do List item.
Applies to	PDConduitInfo , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	Property Priority as Long
Comments	<p>For PDConduitInfo objects:</p> <p>This value is in the range 0 to 4. If no value is specified, then HotSync Manager uses a default value of 2. HotSync Manager runs conduits with a value of 0 first and those with 4 last.</p> <p>This property is optional for all conduits and all versions of HotSync Manager.</p> <p>For PDToDoDbHHRecord objects:</p> <p>This property represents the priority of a To Do List item. It can be set to values from 1 to 5.</p>

ProductId

Purpose	Handheld product ID.
Applies to	PDSystemAdapter object.
Accessibility	Read-only.
Prototype	Property ProductId as String
Example	<pre>Dim pSystem as New PDSystemAdapter Dim ProductId as String ' Read the product ID ProductId = pSystem.ProductId</pre>

ProductName

Purpose	Name of the expansion card product.
Applies to	PDExpansionCardInfo object.
Accessibility	Read-only.
Prototype	Property ProductName As String
Comments	An example value of this property is "SafeBackup 32 MB."

RamDbCount

Purpose	Number of databases in primary storage RAM on the handheld.
Applies to	PDMemoryCardInfo , PDDatabaseQuery objects.
Accessibility	Read-only.
Prototype	Property RamDbCount as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the RAM database count Dim DbCount as Long DbCount = MemCard.RamDbCount</pre>

RamSize

Purpose	Total amount of RAM on the memory card in bytes.
Applies to	PDMemoryCardInfo object.
Accessibility	Read-only.
Prototype	Property RamSize as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the RAM size Dim Size as Long Size = MemCard.RamSize</pre>

Properties

RecordCount

RecordCount

Purpose	Number of records in this database.
Applies to	DmDatabaseInfo , DmRecordAdapter , PDDatabaseInfo , PDRecordAdapter , PDResourceAdapter , PDAddressDbHHRecordAdapter , PDDateBookDbHHRecordAdapter2 , PDDateBookDbHHRecordAdapter , PDMemoDbHHRecordAdapter , PDToDoDbHHRecordAdapter objects.
Accessibility	Read-only.
Prototype	Property RecordCount as Long
Example	<pre>Dim DbQuery As New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB", eRead Or _ eWrite) ' How many records in the database?? Dim recordCount as Long recordCount = Adapter.RecordCount</pre>

RegistryKey

Purpose	The full Windows registry path of the current conduit. Do not use this property; use the PDConduitInfo object to access conduit configuration entries instead.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property RegistryKey as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the base registry key Dim RegKey as Long RegKey = HSInfo.RegistryKey</pre>

RegistryPath

Purpose	The full Windows registry path of the current conduit. Do not use this property; use the PDConduitInfo object to access conduit configuration entries instead.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property RegistryPath as String
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the full registry path Dim RegPath as String RegPath = HSInfo.RegistryPath</pre>

RemoteNameCount

Purpose	The number of entries in the conduit's database NameList property.
Applies to	PDHotsyncInfo object.
Accessibility	Read-only.
Prototype	Property RemoteNameCount as Integer
Comments	On entry to a conduit, specifies the number of databases in the DataBaseNameList property.
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the remote name count Dim nameCount As Integer nameCount = HSInfo.RemoteNameCount</pre>

Properties

RepeatDay

RepeatDay

Purpose	Day on which to repeat this event each month in Date Book.
Applies to	PDDateBookDbHHRRecord2 , PDDateBookDbHHRRecord object.
Accessibility	Read/write.
Prototype	Property RepeatDay As EPDDayIndex
Comments	This property can be set to any of the EPDDayIndex values and is valid only when the RepeatType property is set to EPDMonthlyByDay. If the IsEventRepeatable property is false, then the value of this property is not valid.
See Also	IsEventRepeatable property.

RepeatEndDate

Purpose	Date on which to end this repeating event in Date Book.
Applies to	PDDateBookDbHHRRecord2 , PDDateBookDbHHRRecord object.
Accessibility	Read/write.
Prototype	Property RepeatEndDate As Date
Comments	The PDDateBookDbHHRRecord object cannot handle event end dates earlier than 12/31/1969 4:00:00 PM, which is the earliest date supported by the Date Book application. If the IsEventRepeatable property is false, then the value of this property is not valid.
See Also	IsEventRepeatable property.

RepeatFrequency

Purpose	How many cycles between instances of this repeating event in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property RepeatFrequency As Integer
Comments	For example, if this event repeats by day and this property is set to 1, this event repeats every day; if set to 2, it repeats every other day; and so on. If the IsEventRepeatable property is false, then the value of this property is not valid.
See Also	IsEventRepeatable property.

RepeatType

Purpose	Cycle on which this event repeats in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property RepeatType As EPDRepeatType
Comments	This property is set to any of the values defined by the EPDRepeatType enum. If the IsEventRepeatable property is false, then the value of this property is not valid.
See Also	IsEventRepeatable property.

Properties

RomDbCount

RomDbCount

Purpose	Number of databases in ROM on the handheld.
Applies to	PDMemoryCardInfo , PDDatabaseQuery objects.
Accessibility	Read-only.
Prototype	Property RomDbCount as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the ROM database count Dim DbCount as Long DbCount = MemCard.RomDbCount</pre>

RomSize

Purpose	Total amount of ROM on the memory card in bytes.
Applies to	PDMemoryCardInfo object.
Accessibility	Read-only.
Prototype	Property RomSize as Long
Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim MemCard as PDMemoryCardInfo Set MemCard = pSystem.PDMemoryCardInfo ' Get the ROM size Dim Size as Long Size = MemCard.RomSize</pre>

RomSoftwareVersion

Purpose	Palm OS® software version on the handheld.
Applies to	PDSystemAdapter object.
Accessibility	Read-only.
Prototype	Property RomSoftwareVersion as Long
Example	<pre>Dim pSystem as New PDSystemAdapter Dim ROMSoftwareVersion as Long ' Read the ROM software Version RomSoftwareVersion = pSystem.RomSoftwareVersion</pre>

RowCount

Purpose	Number of rows in this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property RowCount As Long
Parameters	None.
Comments	This count includes all rows in all tables in this schema database.

RowID

Purpose	The unique row ID of this row.
Applies to	PSDRowData object.
Accessibility	Read-only.
Prototype	Property RowID As Variant
Parameters	None.

Properties

Size

Size

Purpose	Size of a file on an expansion card or what to resize a file to.
Applies to	PDVFSFileManager object.
Accessibility	Read/write.
Prototype	Property Size As Long
Comments	This property is valid only for files, not directories.

SlotLibRefNumber

Purpose	Reference number for the slot driver shared library on the handheld that is allocated to the slot number on which this volume is mounted.
Applies to	PDVFSVolumeManager object.
Accessibility	Read-only.
Prototype	Property SlotLibRefNumber As Integer
Comments	This property is valid only when the mountClass property is vfsMountClass_SlotDriver.

SlotReferenceNumber

Purpose	Reference number for the expansion slot that holds this volume.
Applies to	PDVFSVolumeManager object.
Accessibility	Read-only.
Prototype	Property SlotReferenceNumber As Integer
Comments	This property is valid only when the mountClass property is set to vfsMountClass_SlotDriver.

SortInfoSize

Purpose	Size of database sort info block in bytes.
Applies to	DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.

Prototype Property **SortInfoSize** as Long

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim dbInfo as PDDatabaseInfo
Set dbInfo = Adapter.PDDatabaseInfo
' Get the SortInfo block size
Dim SortInfoSize as Long
SortInfoSize = DbInfo.SortInfoSize
```

StartTime

Purpose	Time and date on which an event starts in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.

Prototype Property **StartTime** As Date

Comments The [PDDateBookDbHHRecord](#) object cannot handle event start times earlier than 12/31/1969 4:00:00 PM, which is the earliest date supported by the Date Book application.

Properties

State

State

Purpose	Content of the “State” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property State As String

SyncType

Purpose	Synchronization type, which is one of the ESyncTypes constants.
Applies to	PDHotsyncInfo object.
Prototype	Property SyncType as ESyncTypes
Comments	This property tells a conduit the type of synchronization operation to perform based on the user’s saved preference (synchronize, handheld overwrites desktop, desktop overwrites handheld, do nothing), and if “synchronize” then whether the conduit should perform a fast or slow sync.

IMPORTANT: The `eFast` or `eSlow` values are based only on whether the last `HotSync` operation was with the current desktop. For non-schema databases, this is sufficient for a conduit to determine whether to perform a fast or slow sync. However, for schema databases, this value is not sufficient. Instead, call [GetSyncTypeInfo\(\)](#) to take full advantage of the extra change tracking information that is available only in schema databases and not in classic and extended databases.

Conduits synchronizing schema databases must still rely on this field for the other values (`eHHtoPC`, `ePCtoHH`, etc.) it receives, which are equally valid for all database types.

Example	<pre>Dim pSystem as New PDSYSTEMAdapter Dim HSInfo as PDHotsyncInfo Set HSInfo = pSystem.PDHotsyncInfo ' Get the sync type Dim SyncType As ESyncTypes SyncType = HSInfo.SyncType</pre>
----------------	--

TableCount

Purpose	Number of tables in this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property TableCount As Long
Parameters	None.

TableName

Purpose	The name of the table that this row is in.
Applies to	PSDRowData object.
Accessibility	Read-only.
Prototype	Property TableName As String
Parameters	None.

Title

Purpose	Content of the “Title” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property Title As String

Properties

TotalBytes

TotalBytes

Purpose	Total number of bytes of storage used by this database, including overhead.
Applies to	PSDDatabaseInfo , DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property TotalBytes as long
Comments	Contrast this property with DataBytes .

Example

```
Dim DbQuery as New PDDatabaseQuery
Dim Adapter As PDRecordAdapter
' Open the Memo Pad database
Set Adapter = DbQuery.OpenRecordDatabase("MemoDB")
' Get the database information object
Dim DbInfo as PDDatabaseInfo
Set DbInfo = Adapter.PDDatabaseInfo
' Get the database size
Dim TotalBytes as Long
TotalBytes = DbInfo.TotalBytes
```

TotalCapacity

Purpose	Total capacity, in bytes, of this volume on an expansion card.
Applies to	PDVFSVolumeManager object.
Accessibility	Read-only.
Prototype	Property TotalCapacity As Long
Comments	This is the maximum formatted space available for the VFS Manager to use on this volume.

Type

Purpose	Database type of this schema database.
Applies to	PSDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property Type As Long
Parameters	None.
Comments	The value of this property is a four-byte Palm OS database type . Use DWORDToBSTR() to convert this value to the usual four-character representation of a database type.

Properties

UniqueId

UniqueId

Purpose	For a PDInstallConduitInfo object, a unique ID associated with this install conduit . For a PD<PIM>DbHHRecord object, the record ID of this record.
Applies to	PDInstallConduitInfo , PDAddressDbHHRecord , PDDateBookDbHHRecord2 , PDDateBookDbHHRecord , PDMemoDbHHRecord , PDToDoDbHHRecord objects.
Accessibility	Read/write.
Prototype	PDInstallConduitInfo : Property UniqueId as Long PD<PIM>DbHHRecord: Property UniqueId As Variant
Comments	For PDInstallConduitInfo objects: This value is required to register your install conduit with HotSync Manager; however, HotSync Manager uses the Mask value to uniquely identify your install conduit instead. It is the responsibility of your installer to ensure that this UniqueId value is unique. This value is not necessarily related to the creator ID you register with PalmSource, Inc. However, one way to ensure your value is unique is to use the creator ID you registered with PalmSource, Inc. This property is <i>required</i> for all install conduits. For PD<PIM>DbHHRecord objects: This value is the record ID assigned to this record.

UsedSpace

Purpose	Amount of space, in bytes, already in use on this volume on an expansion card.
Applies to	PDVFSVolumeManager object.
Accessibility	Read-only.
Prototype	Property UsedSpace As Long

UserId

Purpose	User ID, which specifies the user to reference in the users data file.
Applies to	PDUserInfo object.
Accessibility	Read-only.
Prototype	Property UserId as Long
Example	<pre>Dim pSystem as PDSystemAdapter Dim UserInfo as PDUserInfo ' Get the user info object Set UserInfo = pSystem.PDUserInfo ' Get the User ID Dim Id as Long Id = UserInfo.UserId</pre>

UserName

Purpose	Name of the handheld user in the user data store to synchronize with.
Applies to	PDHotsyncInfo , PDUserInfo objects.
Accessibility	Read-only.
Prototype	Property UserName as String
Example	<pre>Dim pSystem as PDSystemAdapter Dim UserInfo as PDUserInfo ' Get the user info object Set UserInfo = pSystem.PDUserInfo ' Get the user name Dim UserName as String UserName = UserInfo.UserName</pre>

Properties

Value

Value

Purpose	The value of a column in this row that is specified by column name.
Applies to	PSDRowData object.
Accessibility	Read/write.
Prototype	Property Value (ByVal <i>ColumnName</i> As String) As Variant
Parameters	→ <i>ColumnName</i> The name of a column in this row.
Comments	<p>This property contains the column value of a column in this row specified by column name. If no data exists for this column, then this property has a default value, but it does not generate an error. The default value depends on the type you read it into: if a Variant, then it is the VT_EMPTY value; if an integer or long value, then it is zero; if it is a string, then it is an empty string; if it is a boolean, then the default is False.</p> <p>If you want a list of only the columns that contain data in this row, then call GetColumnsWithData().</p>

ValueByID

Purpose	The value of a column in this row that is specified by column ID.
Applies to	PSDRowData object.
Accessibility	Read/write.
Prototype	Property ValueByID (ByVal <i>ColumnID</i> As Long) As Variant
Parameters	→ <i>ColumnID</i> The column ID of a column in this row.
Comments	<p>This property contains the column value of a column in this row specified by column ID. If no data exists for this column, this property has a default value, which depends on the column's data type, but it does not generate an error. To determine whether a given column contains data, call IsDataPresent() or call GetColumnsWithData() to get a list of all the columns that contain data in this row.</p>

Version

Purpose	An application-specific version number of this database.
Applies to	PSDDatabaseInfo , DmDatabaseInfo , PDDatabaseInfo object.
Accessibility	Read-only.
Prototype	Property Version as Long
Comments	The developer defines this version number for the database, which Palm OS can use to determine whether a newer version of a database can overwrite an older one.

Example	<pre>Dim DbQuery as New PDDatabaseQuery Dim Adapter As PDRecordAdapter ' Open the Memo Pad database Set Adapter = DbQuery.OpenRecordDatabase("MemoDB") ' Get the database information object Dim DbInfo as PDDatabaseInfo Set DbInfo = Adapter.PDDatabaseInfo ' Get the database version Dim Version as Long Version = DbInfo.Version</pre>
----------------	---

ViewerId

Purpose	ID of the handheld. Not currently used.
Applies to	PDUserInfo object.
Accessibility	Read-only.
Prototype	Property ViewerId as Long

Example	<pre>Dim pSystem as PDSystemAdapter Dim UserInfo as PDUserInfo ' Get the user info object Set UserInfo = pSystem.PDUserInfo ' Get the Viewer Id Dim ViewerId as Long ViewerId = UserInfo.ViewerId</pre>
----------------	---

Properties

WeekIndexForMonthlyRepeatByDay

WeekIndexForMonthlyRepeatByDay

Purpose	Week on which to repeat this event if it repeats monthly by day in Date Book.
Applies to	PDDateBookDbHHRecord2 , PDDateBookDbHHRecord object.
Accessibility	Read/write.
Prototype	Property WeekIndexForMonthlyRepeatByDay As EPDWeekIndex
Comments	This property is set to any of the values defined by the EPDWeekIndex enum. It is valid only if the RepeatType property is set to EPDMonthlyByDay and the IsEventRepeatable property is set to True.

WritableExceptionInReadOnlyRows

Purpose	Flag that indicates whether the data in a column is writable.
Applies to	PSDColumnInfo object.
Accessibility	Read/write.
Prototype	Property WritableExceptionInReadOnlyRows As Boolean
Parameters	None.
Comments	If True, the column data is writable; if False, it is not writable.

ZipCode

Purpose	Content of the “Zip Code” field in an Address Book record.
Applies to	PDAddressDbHHRecord object.
Accessibility	Read/write.
Prototype	Property ZipCode As String

Constants

This chapter describes the COM Sync constants. The COM Sync module presents many of these constants as enum values, but for some it only passes the constants defined in the underlying C APIs' header file. The enums are presented first, in alphabetical order, followed by other groups of related constants.

Constants

Database Information Flags

Database Information Flags

- Purpose** Indicate whether a schema database is excluded from HotSync operations and whether it is in RAM on the handheld
- Applies to** [PSDDatabaseInfo](#) object.
[Flags](#) property.
- Constants** `eMiscDbFlagExcludeFromSync = 0x0080`
Indicates that the database is to be excluded from the synchronization operations. This is typically the result of the user disabling synchronization for the application associated with the database on the handheld (accessible from the HotSync client's **Options > Conduit Setup** menu item). This feature is supported in Palm OS versions 2.0 or later.
- `eMiscDbFlagRamBased = 0x0040`
Indicates that the database is located in RAM. If this flag is not set, the database is stored in ROM. This flag is available with Palm OS versions 3.0 or later.

EAccessModes

- Purpose** Defines the access modes in which you can create or open a database.
- Applies to** [CreateRecordDatabase\(\)](#), [CreateResourceDatabase\(\)](#), [OpenRecordDatabase\(\)](#), [OpenResourceDatabase\(\)](#) methods.
[AccessMode](#) property.
- Constants** `Constant eExclusive = 32 (&H20)`
Not used.
- `Constant eRead = 128 (&H80)`
Read permission.
- `Constant eShowSecret = 16 (&H10)`
Open the database with full access to the user's secret records.
- `Constant eWrite = 64 (&H40)`
Write permission.

EConnectionType

- Purpose** Defines two HotSync connection types.
- Applies to** [ConnectionType](#) property.
- Constants**
- Constant `eCable = 0`
Handheld is connected to a cable.
 - Constant `eModem = 1`
Handheld is connected to a modem.

EDbFlags

- Purpose** Defines the attributes of a non-schema database.
- Applies to** [CreateRecordDatabase\(\)](#), [CreateResourceDatabase\(\)](#), [OpenRecordDatabase\(\)](#), [OpenResourceDatabase\(\)](#) methods.
[DbFlags](#) property.
- Constants**
- Constant `eAppInfoDirty = 4`
The application info block has been modified.
 - Constant `eBackupDb = 8`
The database should be backed up to the desktop computer if no application-specific conduit is available.
 - Constant `eBundle = 2048 (&H800)`
The database is bundled with its application during a beam. That is, if the user chooses to beam the application from the Launcher, the Launcher beams this database along with the application's resource database and overlay database.

This attribute applies to Palm OS® versions 4.0 and later. Note that overlay databases are automatically beamed with the application database. You do not need to set this bit in overlay databases.
 - Constant `eCopyPrevention = 64 (&H40)`
Prevents the database from being copied by methods such as IR beaming.
 - Constant `eHidden = 256 (&H100)`
This database should be hidden from view. For example, this attribute is set to hide some applications in the Launcher's main view. You can set it on non-resource databases to have

Constants

EDbFlags

the Launcher disregard the database's records when when it shows a count of records in its **Info** dialog.

Constant `eLaunchableData = 512 (&H200)`

This database (not applicable for executables) can be "launched" from the Launcher, which passes the database's name to its owner application ('appl' database with same creator ID) using the `sysAppLaunchCmdOpenNamedDB` action code.

Constant `eOkToInstallNewer = 16 (&H10)`

A backup conduit can install a newer version of this database with a different name if the current database is open.

Constant `eOpenDb = 32768 (&H8000)`

The database is open. Only Palm OS can set this attribute.

Constant `eReadOnly = 2`

The database is a read-only database.

Constant `eRecord = 0`

The database is a record database.

Constant `eRecyclable = 1024 (&H400)`

The database is recyclable. Recyclable databases are deleted when they are closed or upon a system reset.

Constant `eResetAfterInstall = 32 (&H20)`

Reset the handheld after installation.

Constant `eResource = 1`

The database is a resource database. Only Palm OS can set this attribute.

Constant `eStream = 128 (&H80)`

The database is a file stream.

EFirstSync

- Purpose** Identifies whether the handheld or desktop is performing its first synchronization.
- Applies to** [FirstSync](#) property.
- Constants**
- Constant `eHH = 2`
First synchronization for the handheld.
 - Constant `eNeither = 0`
Not first synchronization for either the handheld or the desktop.
 - Constant `ePC = 1`
First synchronization for the desktop.

EGetConduitInfo

- Purpose** Indicates the type of information that HotSync Manager is requesting when it calls a conduit's [GetConduitInfo\(\)](#) entry point.
- Applies to** [GetConduitInfo\(\)](#) method.
- Constants**
- Constant `eGetConduitInfoDoNotUse = -1 (&Hfffffff)`
Reserved. Do not use.
 - Constant `eGetConduitName = 0`
HotSync Manager requests the display name of your conduit. HotSync Manager uses the name a conduit passes back only when the conduit is not registered with a name—that is, if the [Name](#) conduit configuration entry is not set.
 - Constant `eGetConduitVersion = 3`
HotSync Manager requests the version number of your conduit. Your implementation must pack your major version number into the high byte of the low word in the result, and must pack your minor version number into the low byte of the low word in the result.
 - Constant `eGetDefaultAction = 2`
HotSync Manager requests the type of default action performed by your conduit. A conduit must pass back one of the [ESyncTypes](#) enum values.

Constants

EGetConduitInfo

Constant eGetMfcVersion = 1

HotSync Manager requests whether your conduit uses MFC or not, and if so, what version. This version number is actually the version of Visual C++ that MFC shipped with, not necessarily the version number of MFC itself.

Note that this enum value is deprecated in Sync Manager versions 2.4 and later. The corresponding versions of HotSync Manager do not query conduits for an MFC version. A conduit must return one of the [EMfcVersion](#) enum values only if version 2.3 or earlier of Sync Manager is present.

Constant ePDDoNotDisplayInConduitListForUser = 4

HotSync Manager requests whether your conduit should be displayed in the HotSync Manager **Custom** dialog box. If your conduit passes back a zero value or no value, then your conduit's name appears in the **Custom** dialog box. If your conduit passes back any nonzero value, then its name does not appear.

Note that HotSync Manager can pass in this enum value only if Sync Manager version 2.4 or later is present.

Constant ePDDoNotDisplayProgress = 6

HotSync Manager requests whether it should display your conduit's name in the **HotSync Progress** dialog box during a HotSync operation. If your conduit passes back a zero value or no value, then HotSync Manager displays your conduit's name. If your conduit passes back any nonzero value, then it does not display your conduit's name.

Note that HotSync Manager can pass in this enum value only if Sync Manager version 2.4 or later is present.

Constant ePDRunAlways = 5

HotSync Manager, versions 6.0 and later, requests whether it should run your conduit regardless of whether an application with the same creator ID is on the handheld. If your conduit passes back a zero value or no value, then HotSync Manager runs your conduit only if an application with the same creator ID is on the handheld. If your conduit passes back any nonzero value, then it runs your conduit always.

Note that HotSync Manager can pass in this enum value only if Sync Manager version 2.4 or later is present.

Comments HotSync Manager can pass one of these values to your conduit via its implementation of the [IPDClientNotify](#) interface's [GetConduitInfo\(\)](#) method.

ELogActivity

Purpose	Defines the desktop HotSync log message types.
Applies to	AddLogEntry() method.
Constants	<div>Constant <code>eArchiveFailed = 16 (&H10)</code> The archive operation failed.</div> <div>Constant <code>eCategoryDeleted = 4</code> A category was deleted.</div> <div>Constant <code>eChangeCatFailed = 7</code> Changing a category failed.</div> <div>Constant <code>eCustomLabel = 6</code> A custom label was changed.</div> <div>Constant <code>eDateChanged = 5</code> The date was changed.</div> <div>Constant <code>eDoubleModify = 0</code> A record has been modified on both the desktop computer and handheld.</div> <div>Constant <code>eDoubleModifyArchive = 1</code> A record that has been modified on both the desktop and handheld has been archived.</div> <div>Constant <code>eDoubleModifySubsc = 23 (&H17)</code> A file link record was modified on the desktop. This value is deprecated because the file link feature has been removed in HotSync Manager 6.0.1 and later.</div> <div>Constant <code>eError = 30 (&H1e)</code> An error occurred. You can use this value only with HotSync Manager version 6.0.1 or later.</div> <div>Constant <code>eFileLinkCompleted = 24 (&H18)</code> Processing of a file link completed. This value is deprecated because the file link feature has been removed in HotSync Manager 6.0.1 and later.</div> <div>Constant <code>eFileLinkDeleted = 25 (&H19)</code> A file link was deleted. This value is deprecated because the file link feature has been removed in HotSync Manager 6.0.1 and later.</div>

Constant eHTMLText = 32 (&H20)

This type of log entry contains HTML tags or characters. Using this value passes the string to the log unchanged so that its HTML formatting will be rendered. All other Activity values cause the HotSync Log API to replace HTML control characters (<, >, &) with their HTML equivalents (<, >, &). You can use this value only with HotSync Manager version 6.0.1 or later.

Constant eLocalAddFailed = 13

Adding a record on the desktop computer failed.

Constant eLocalSaveFailed = 17 (&H11)

Saving data on the desktop computer failed.

Constant eRecCountMismatch = 14

Record counts did not match.

Constant eRecommendation = 31 (&H1f)

Recommendation that the user do something—for example, resolve conflicts that a conduit could not. You can use this value only with HotSync Manager version 6.0.1 or later.

Constant eRemoteAddFailed = 9

Adding a record on the handheld failed.

Constant eRemoteChangeFailed = 11

Changing a record on the handheld failed.

Constant eRemoteDeleteFailed = 12

Deleting a record on the handheld failed.

Constant eRemotePurgeFailed = 10

Purging a record on the handheld failed.

Constant eRemoteReadFailed = 8

Reading a record failed on the handheld.

Constant eResetFlagsFailed = 18 (&H12)

Resetting of the synchronization flags failed.

Constant eReverseDelete = 2

A record that was deleted on one side has been restored, because the same record was modified on the other side.

Constant eSyncAborted = 21 (&H15)

The synchronization operation was aborted.

Constants

ELogActivity

Constant `eSyncDidNothing` = 26 (&H1a)

The user specified that the conduit should not perform any operations during synchronization. You can use this value only with HotSync Manager version 6.0 or later.

Constant `eSyncFinished` = 20 (&H14)

A conduit completed its synchronization operations successfully.

Constant `eSyncSessionCancelled` = 29 (&H1d)

The user clicked the **Cancel** button on the **HotSync Progress** dialog box. Only HotSync Manager uses this value; conduits must not. You can use this value only with HotSync Manager version 6.0.1 or later.

Constant `eSyncSessionEnd` = 28 (&H1c)

The HotSync operation completed. Only HotSync Manager uses this value; conduits must not. You can use this value only with HotSync Manager version 6.0.1 or later.

Constant `eSyncSessionStart` = 27 (&H1b)

The HotSync operation started. Only HotSync Manager uses this value; conduits must not. You can use this value only with HotSync Manager version 6.0.1 or later.

Constant `eSyncStarted` = 19 (&H13)

A conduit started its synchronization operations.

Constant `eText` = -1 (&Hfffffff)

Allows a conduit to add text to the log without incrementing the warning counter.

Constant `eTooManyCategories` = 3

No more categories can be added.

Constant `eWarning` = 22 (&H16)

This constant lets a conduit record a warning that doesn't fit any of the other activity codes provided.

Constant `eXMapFailed` = 15

The position cross-map operation failed.

Comments Your conduit passes one of these values to [AddLogEntry\(\)](#) to indicate what type of entry it is adding to the log.

For more information, see “[Adding Messages to the HotSync Log](#)” on page 46 in the *Introduction to Conduit Development*.

See Also [AddLogEntry\(\)](#) method.

EMfcVersion

Purpose	Indicates whether your conduit uses MFC or not, and if so, what version.
Applies to	GetConduitInfo() method.
Constants	<p>Constant <code>ePDMFC_NOT_USED</code> = 268435456 (&H10000000) This conduit does not use MFC.</p> <p>Constant <code>ePDMFC_VERSION_41</code> = 1040 (&H410) Version 4.1.</p> <p>Constant <code>ePDMFC_VERSION_50</code> = 1280 (&H500) Version 5.0.</p> <p>Constant <code>ePDMFC_VERSION_60</code> = 1536 (&H600) Version 6.0.</p> <p>Constant <code>ePDMFC_VERSION_70</code> = 1792 (&H700) Version 7.0.</p>
Comments	Your conduit's implementation of the IPDClientNotify interface's GetConduitInfo() method must return one of these values when HotSync Manager passes in the <i>infoType</i> parameter a EGetConduitInfo enum value of <code>eGetMfcVersion</code> . Note that the version numbers actually correspond to the version of Visual C++ that MFC shipped with.

EPDAlarmAdvTimeUnits

Purpose	Defines the time units that the AlarmAdvanceTime property is specified in.
Applies to	AlarmAdvanceUnits property.
Constants	<p>Constant <code>PD_AAU_DAYS</code> = 2 Days.</p> <p>Constant <code>PD_AAU_HOURS</code> = 1 Hours.</p> <p>Constant <code>PD_AAU_MINUTES</code> = 0 Minutes.</p>

EPDDayIndex

Purpose	Defines the days of the week on which a repeating event can occur in Date Book.
Applies to	RepeatDay property.
Constants	<div>Constant EPDFriday = 5 Friday.</div> <div>Constant EPDMonday = 1 Monday.</div> <div>Constant EPDSaturday = 6 Saturday.</div> <div>Constant EPDSunday = 0 Sunday.</div> <div>Constant EPDThursday = 4 Thursday.</div> <div>Constant EPDTuesday = 2 Tuesday.</div> <div>Constant EPDWednesday = 3 Wednesday.</div>
Comments	The PDDateBookDbHHRecord object's RepeatDay property can be set to any of these values.

EPDDisplayPhone

- Purpose** Defines which contact information to display in the Address Book list view.
- Applies to** [PDAddressDbHHRecord](#) object.
[DisplayPhone](#) property.
- Constants**
- Constant EPDPhoneLabel1 = 0
Display the information specified by the [PhoneLabel1](#) property.
 - Constant EPDPhoneLabel2 = 1
Display the information specified by the [PhoneLabel2](#) property.
 - Constant EPDPhoneLabel3 = 2
Display the information specified by the [PhoneLabel3](#) property.
 - Constant EPDPhoneLabel4 = 3
Display the information specified by the [PhoneLabel4](#) property.
 - Constant EPDPhoneLabel5 = 4
Display the information specified by the [PhoneLabel5](#) property.
- See Also** [EPDPhoneLabels](#), [DisplayPhone](#)

EPDFileOrigin

- Purpose** Defines the origins of relative offsets passed to the [Seek\(\)](#) method.
- Applies to** [Seek\(\)](#) method.
- Constants**
- Constant eBeginning = 0
From the beginning (first data byte of file).
 - Constant eCurrent = 1
From the current position.
 - Constant eEnd = 2
From the end of the file (one position beyond last data byte).
Only negative offsets are legal from this origin.

Constants

EPDHSConnectionStatus

EPDHSConnectionStatus

- Purpose** Defines the status of a HotSync Manager connection type.
- Applies to** [GetCommStatus\(\)](#) method.
- Constants** Constant EPDDisableConnection = 0
Disabled.
- Constant EPDEnableConnection = 1
Enabled.

EPDHSConnectionType

- Purpose** Defines the types of connection that HotSync Manager can make with the handheld.
- Applies to** [GetCommStatus\(\)](#), [SetCommStatus\(\)](#) methods.
- Constants** Constant EPDHSInfraRedPort = 4
Infrared.
- Constant EPDHSModem = 1
Modem.
- Constant EPDHSNetwork = 2
Network.
- Constant EPDHSSerialPort = 0
Serial.
- Constant EPDHSUSBPort = 3
USB.

EPDPathType

- Purpose** Defines the path of HotSync user directories and the path of the HotSync Manager executable. HotSync Manager and other desktop software use these paths.
- Applies to** [GetPath\(\)](#), [SetPath\(\)](#) methods.
- Constants**
- Constant EPDPathHome = 0
The path to the user directories on the desktop computer—for example, C:\Documents and Settings\<WinUsername>\My Documents\Palm OS Desktop. This corresponds to the [Core\Path](#) configuration entry.
- Constant EPDPathHotSync = 1
The full path and filename of the HotSync Manager executable—for example, C:\Program Files\PalmSource\Desktop\hotsync.exe. This corresponds to the [Core\HotSyncPath](#) configuration entry.

Constants

EPDPhoneLabels

EPDPhoneLabels

Purpose	Defines the values that a PDAddressDbHHRecord object's PhoneLabel<n> properties can take.
Applies to	Phone1 , Phone2 , Phone3 , Phone4 , Phone5 properties.
Constants	<div>Constant PHONE_LABEL_EMAIL = 4 Email address.</div> <div>Constant PHONE_LABEL_FAX = 2 Fax number.</div> <div>Constant PHONE_LABEL_HOME = 1 Home phone number.</div> <div>Constant PHONE_LABEL_MAIN = 5 Main phone number.</div> <div>Constant PHONE_LABEL_MOBILE = 7 Mobile phone number.</div> <div>Constant PHONE_LABEL_OTHER = 3 Other phone number or email address.</div> <div>Constant PHONE_LABEL_PAGER = 6 Pager number.</div> <div>Constant PHONE_LABEL_WORK = 0 Work phone number.</div>

EPDRepeatType

Purpose	Defines the values that a PDDateBookDbHHRecord object's RepeatType property can take. These specify the cycle on which an event repeats in Date Book.
Applies to	RepeatType property.
Constants	<div>Constant EPDDaily = 1 Repeat every x days.</div> <div>Constant EPDMonthlyByDate = 4 Repeat every x months by date of the month.</div> <div>Constant EPDMonthlyByDay = 3 Repeat every x months by day of the week.</div> <div>Constant EPDNoRepeat = 0 Does not repeat.</div> <div>Constant EPDWeekly = 2 Repeat every x weeks by day of the week.</div> <div>Constant EPDYearlyByDate = 5 Repeat every year by date of the month.</div>

Constants

EPDRunOptions

EPDRunOptions

Purpose Defines the values that [GetConduitInfo\(\)](#) should return to indicate whether HotSync Manager should run the conduit only if a matching application exists on the handheld.

Applies to [GetConduitInfo\(\)](#) method.

Constants Constant `ePDRunConduitAlways = 2`
HotSync Manager runs the conduit always, regardless of whether an application with the same creator ID is on the handheld.

Constant `ePDRunOnlyWhenAppExists = 3`
HotSync Manager runs the conduit only if an application with the same creator ID is on the handheld.

EPDSlotMediaType

Purpose	Defines the media types supported by the Expansion Manager.
Applies to	GetSlotMediaType() method.
Constants	<div>Constant EPDMediaTypeAny = 0 Matches all media types when looking up a default directory.</div> <div>Constant EPDMediaTypeCompactFlash = 2 CompactFlash.</div> <div>Constant EPDMediaTypeMemoryStick = 1 Memory Stick.</div> <div>Constant EPDMediaTypeMultiMediaCard = 4 MultiMediaCard.</div> <div>Constant EPDMediaTypePlugAndPlay = 8 Universal “plug and play” (PnP) connector.</div> <div>Constant EPDMediaTypePoserHost = 7 Host file system emulated by Palm OS® Emulator.</div> <div>Constant EPDMediaTypeRAMDisk = 6 A RAM disk based media.</div> <div>Constant EPDMediaTypeSecureDigital = 3 Secure Digital.</div> <div>Constant EPDMediaTypeSmartMedia = 5 SmartMedia.</div>
Comments	Note that the MediaType property of the PDExpansionCardInfo and PDVFSVolumeManager objects does not use this enum; for its values, see “ VFS Manager and Expansion Manager Media Type Constants ” on page 575.

Constants

EPDUserSyncAction

EPDUserSyncAction

- Purpose** Defines a user's preferences for the type of synchronization operation to perform for a specified conduit.
- Applies to** [GetUserPermanentSyncPreferences\(\)](#), [GetUserTemporarySyncPreferences\(\)](#), [SetUserPermanentSyncPreferences\(\)](#), [GetUserTemporarySyncPreferences\(\)](#) methods.
- Constants**
- Constant EPDCustom = 4
Perform any custom actions implemented in the conduit. HotSync Manager passes only this flag to the conduit, which must determine what action to take.
- Constant EPDDoNothing = 3
Do not exchange data between the handheld and the desktop computer; the conduit does, however, load and can set flags or log messages.
- Constant EPDHHToPC = 2
Perform a restore from the handheld: overwrite the desktop database with the database on the handheld.
- Constant EPDPCToHH = 1
Perform a restore from the desktop computer: overwrite the database on the handheld with the database on the desktop computer.
- Constant EPDSynchronize = 0
Perform a mirror-image synchronization between the desktop computer and the handheld.

EPDVFSFileOpenAttr

Purpose	Defines the mode in which a file or directory is opened by the VFS Manager.
Applies to	Open() method.
Constants	<div>Constant <code>eVFSModeCreate = 8</code> Create the file if it doesn't already exist.</div> <div>Constant <code>eVFSModeExclusive = 1</code> Open and lock the file or directory. This mode excludes anyone else from using the file or directory until it is closed.</div> <div>Constant <code>eVFSModeRead = 2</code> Open for read access.</div> <div>Constant <code>eVFSModeReadWrite = 7</code> Open for read/write access.</div> <div>Constant <code>eVFSModeTruncate = 16 (&H10)</code> Truncate the file to zero bytes after opening, removing all existing data.</div> <div>Constant <code>eVFSModeWrite = 5</code> Open for exclusive write access. This mode excludes anyone else from using the file or directory until it is closed.</div>

Constants

EPDVFSFileSystemType

EPDVFSFileSystemType

Purpose	Defines the file system that is present on a volume on an expansion card.
Applies to	FileSystemType property.
Constants	<div>Constant PDvfsFilesystemType_AFS = 10 Unix Andrew file system.</div> <div>Constant PDvfsFilesystemType_EXT2 = 7 Linux file system.</div> <div>Constant PDvfsFilesystemType_FAT = 2 FAT12 and FAT16, which handles only 8.3 filenames.</div> <div>Constant PDvfsFilesystemType_FFS = 8 Unix Berkeley block based file system.</div> <div>Constant PDvfsFilesystemType_HFS = 5 Macintosh standard hierarchical file system.</div> <div>Constant PDvfsFilesystemType_HFSPlus = 4 Macintosh extended hierarchical file system.</div> <div>Constant PDvfsFilesystemType_HPFS = 12 OS/2 High Performance file system.</div> <div>Constant PDvfsFilesystemType_MFS = 6 Macintosh original file system.</div> <div>Constant PDvfsFilesystemType_NFS = 9 Unix Networked file system.</div> <div>Constant PDvfsFilesystemType_Novell = 11 Novell file system.</div> <div>Constant PDvfsFilesystemType_NTFS = 3 Windows NT file system.</div> <div>Constant PDvfsFilesystemType_VFAT = 1 FAT12 and FAT16, extended to handle long filenames.</div>

EPDWeekIndex

Purpose	Defines the week of the month on which an event occurs when it is set up to repeat monthly on a particular day of the week (RepeatType property is set to EPDMonthlyByDay).
Applies to	WeekIndexForMonthlyRepeatByDay property.
Constants	<div>Constant EPDFirst = 0 First week.</div> <div>Constant EPDFourth = 3 Fourth week.</div> <div>Constant EPDLast = 4 Last week.</div> <div>Constant EPDSecond = 1 Second week.</div> <div>Constant EPDThird = 2 Third week.</div>

EPSDCloseOptions

Purpose	Indicates optional actions for CloseDatabase() to take when it closes a schema database.
Applies to	PSDDatabaseQuery objects. CloseDatabase() method.
Constants	<div>Constant ePSDNone = 0</div> <div>Constant ePSDUpdateBackupDate = 128 (&H80)</div> <div>Constant ePSDUpdateBothDates = 256 (&H100)</div> <div>Constant ePSDUpdateModifiedDate = 64 (&H40)</div>

Constants

EPSDColumnDataType

EPSDColumnDataType

Purpose	Defines the permissible data types that columns can be defined as in a schema.
Applies to	PSDColumnInfo , PSDRowData objects. GetDataType() method. DataType property.
Constants	<pre>Constant PSDdmInt8 = 5 Constant PSDdmBoolean = 11 Constant PSDdmChar = 15 Constant PSDdmDate = 13 Constant PSDdmDateTime = 12 Constant PSDdmDateTimeSecs = 18 (&H12) Constant PSDdmDouble = 10 Constant PSDdmFloat = 9 Constant PSDdmInt16 = 6 Constant PSDdmInt32 = 7 Constant PSDdmInt64 = 8 Constant PSDdmInt8 = 5 Constant PSDdmString = 16 (&H10) Constant PSDdmStringVector = 192 (&Hc0)</pre>

Constant PSDdmTime = 14

Constant PSDdmUInt16 = 2

Constant PSDdmUInt32 = 3

Constant PSDdmUInt64 = 4

Constant PSDdmUInt8 = 1

Constant PSDdmVector = 128 (&H80)

EPSSDatabaseFlags

Purpose	Defines the attributes of a schema database.
Applies to	PSDDatabaseInfo object. Attributes property.
Constants	<p>Constant <code>ePSDBackupDb</code> = 8 The database should be backed up to the desktop computer if no application-specific conduit is available.</p> <p>Constant <code>ePSDBundle</code> = 2048 (&H800) The database is bundled with its application during a beam. That is, if the user chooses to beam the application from the Launcher, the Launcher beams this database along with the application's resource database and overlay database. This attribute applies to Palm OS® versions 4.0 and later. Note that overlay databases are automatically beamed with the application database. You do not need to set this bit in overlay databases.</p> <p>Constant <code>ePSDCopyPrevention</code> = 64 (&H40) Prevents the database from being copied by methods such as IR beaming.</p> <p>Constant <code>ePSDDbReadOnly</code> = 2 The database is a read-only database.</p> <p>Constant <code>ePSDFixedUp</code> = 16384 (&H4000) The Palm OS loader had to fix up an application for relocation. Only Palm OS can set this attribute.</p> <p>Constant <code>ePSDHidden</code> = 256 (&H100) This database should be hidden from view. For example, this attribute is set to hide some applications in the Launcher's main view. You can set it on non-resource databases to have the Launcher disregard the database's rows when when it shows a count of rows in its Info dialog.</p> <p>Constant <code>ePSDLaunchableData</code> = 512 (&H200) This database (not applicable for executables) can be "launched" from the Launcher, which passes the database's name to its owner application ('appl' database with same creator ID) using the <code>sysAppLaunchCmdOpenNamedDB</code> action code.</p>

Constant ePSDokToInstallNewer = 16 (&H10)
A backup conduit can install a newer version of this database with a different name if the current database is open.

Constant ePSDOpenDb = 32768 (&H8000)
The database is open. Only Palm OS can set this attribute.

Constant ePSDRecord = 0
The database contains row data, not resources.

Constant ePSDRecyclable = 1024 (&H400)
The database is recyclable. Recyclable databases are deleted when they are closed or upon a system reset.

Constant ePSDResetAfterInstall = 32 (&H20)
The handheld must be reset after this database is installed. That is, the HotSync application on the handheld forces a reset after installing this database.

Constant ePSDResource = 1
The database is a resource database. Only Palm OS can set this attribute.

Constant ePSDSchema = 4096 (&H1000)
The database is a schema database. Only Palm OS can set this attribute.

Constant ePSDSecure = 8192 (&H2000)
The database is a secure database. Only Palm OS can set this attribute.

Constant ePSDStream = 128 (&H80)
The database is a file stream.

Comments For a description of the different types of databases indicated by some of these attributes, see [Chapter 8, “Palm OS Databases,”](#) on page 113 in *Introduction to Conduit Development*.

EPSDDBAttribute

Purpose	Defines whether a database is a schema, extended or classic database.
Applies to	PSDDatabaseUtilities object.
Constants	<p>Constant ePSDClassicDBType = 0 A classic database.</p> <p>Constant ePSDExtendedDBType = 8192 (&H2000) A extended database.</p> <p>Constant ePSDSchemaDBType = 4096 (&H1000) A schema database.</p>
Comments	For a description of the different types of databases indicated by these attributes, see Chapter 8, “Palm OS Databases,” on page 113 in <i>Introduction to Conduit Development</i> .

EPSDDesktopTrustStatus

- Purpose** Indicates the desktop trust status of the HotSync operation that is in progress.
- Applies to** [PSDDatabaseQuery](#) objects.
[GetDeskTopTrustStatus\(\)](#) method.
- Constants** Constant `ePSDDesktopNotTrusted = 1`
- Constant `ePSDDesktopTrusted = 2`
- Constant `ePSDDesktopTrustNotVerified = 3`

EPSEncodingType

Purpose	Define the character encoding types for the Encoding property of a PSDDatabaseInfo object.
Applies to	PSDDatabaseInfo object. Encoding property.
Constants	<pre>Constant ePSDEncodingUnknown = 0 Constant ePSDEncodingPalmGSM = 78 Constant ePSDEncodingPalmLatin = 3 Constant ePSDEncodingCP1252 = 7 Constant ePSDEncodingISO8859_1 = 2 Constant ePSDEncodingAscii = 1 Constant ePSDEncodingPalmSJIS = 5 Constant ePSDEncodingCP932 = 8 Constant ePSDEncodingShiftJIS = 4 Constant ePSDEncodingUCS2 = 9 Constant ePSDEncodingUTF8 = 6 Constant ePSDEncodingUTF7 = 24 Constant ePSDEncodingUTF16 = 75 Constant ePSDEncodingUTF16BE = 76 Constant ePSDEncodingUTF16LE = 77 Latin character encodings Constant ePSDEncodingCP850 = 12 Constant ePSDEncodingCP437 = 13 Constant ePSDEncodingCP865 = 14 Constant ePSDEncodingCP860 = 15 Constant ePSDEncodingCP861 = 16 Constant ePSDEncodingCP863 = 17 Constant ePSDEncodingCP775 = 18 Constant ePSDEncodingMacIslande = 19</pre>

Constant `ePSDEncodingMacintosh` = 20

Constant `ePSDEncodingCP1257` = 21

Constant `ePSDEncodingISO8859_3` = 22

Constant `ePSDEncodingISO8859_4` = 23

Extended Latin character encodings

Constant `ePSDEncodingISO8859_2` = 26

Constant `ePSDEncodingCP1250` = 27

Constant `ePSDEncodingCP852` = 28

Constant `ePSDEncodingXKamenicky` = 29

Constant `ePSDEncodingMacXCroate` = 30

Constant `ePSDEncodingMacXLat2` = 31

Constant `ePSDEncodingMacXRomania` = 32

Japanese character encodings

Constant `ePSDEncodingEucJp` = 25

Constant `ePSDEncodingISO2022Jp` = 10

Constant `ePSDEncodingXAutoJp` = 11

Greek character encodings

Constant `ePSDEncodingISO8859_7` = 33

Constant `ePSDEncodingCP1253` = 34

Constant `ePSDEncodingCP869` = 35

Constant `ePSDEncodingCP737` = 36

Constant `ePSDEncodingMacXGr` = 37

Cyrillic character encodings

Constant `ePSDEncodingCP1251` = 38

Constant `ePSDEncodingISO8859_5` = 39

Constant `ePSDEncodingKoi8R` = 40

Constant `ePSDEncodingKoi8` = 41

Constant `ePSDEncodingCP855` = 42

Constants

EPSEncodingType

Constant `ePSEncodingCP866` = 43

Constant `ePSEncodingMacCyr` = 44

Constant `ePSEncodingMacUkraine` = 45

Turkish character encodings

Constant `ePSEncodingCP1254` = 46

Constant `ePSEncodingISO8859_9` = 47

Constant `ePSEncodingCP857` = 48

Constant `ePSEncodingMacTurc` = 49

Constant `ePSEncodingCP853` = 50

Arabic character encodings

Constant `ePSEncodingISO8859_6` = 51

Constant `ePSEncodingAsmo708` = 52

Constant `ePSEncodingCP1256` = 53

Constant `ePSEncodingCP864` = 54

Constant `ePSEncodingAsmo708Plus` = 55

Constant `ePSEncodingAsmo708Fr` = 56

Constant `ePSEncodingMacAra` = 57

Simplified Chinese character encodings

Constant `ePSEncodingGB2312` = 58

Constant `ePSEncodingHZ` = 59

Constant `ePSEncodingGBK` = 82

Constant `ePSEncodingPalmGB` = 83

Traditional Chinese character encodings

Constant `ePSEncodingBig5` = 60

Constant `ePSEncodingBig5_HKSCS` = 79

Constant `ePSEncodingBig5Plus` = 80

Constant `ePSEncodingPalmBig5` = 81

Vietnamese character encodings

Constant ePSDEncodingViscii = 61

Constant ePSDEncodingViqr = 62

Constant ePSDEncodingVncii = 63

Constant ePSDEncodingVietnet = 65

Constant ePSDEncodingCP1258 = 66

Korean character encodings

Constant ePSDEncodingKsc5601 = 67

Constant ePSDEncodingCP949 = 68

Constant ePSDEncodingISO2022Kr = 69

Hebrew character encodings

Constant ePSDEncodingISO8859_8I = 70

Constant ePSDEncodingISO8859_8 = 71

Constant ePSDEncodingCP1255 = 72

Constant ePSDEncodingCP1255V = 73

Thai character encodings

Constant ePSDEncodingTis620 = 74

Constant ePSDEncodingCP874 = 64

Constants

EPSDMatchMode

EPSDMatchMode

- Purpose** Defines how a specified list of category IDs is to be matched against the category memberships of rows in a schema database.
- Applies to** [PSDDatabaseAdapter](#) objects.
[DeleteRowsInCategory\(\)](#) method.
- Constants** Constant `eDbMatchAll` = 2
- Constant `eDbMatchAny` = 1
- Constant `eDbMatchExact` = 3

EPSDOpenMode

- Purpose** Defines the access modes in which a schema database can be opened.
- Applies to** [PSDDatabaseQuery](#) objects.
[OpenDatabase\(\)](#) method.
- Constants** Constant `ePSDReadOnly` = 1
- Constant `ePSDReadWrite` = 3
- Constant `ePSDShowSecret` = 16 (&H10)

EPSDSearch

Purpose	Specifies how PSDDatabaseQuery.ReadDatabaseNameList() performs a search operation.
Applies to	PSDDatabaseQuery objects. ReadDatabaseNameList() method.
Constants	Constant <code>eDbLatest = 64 (&H40)</code> Constant <code>eDbNew = 128 (&H80)</code> Constant <code>eDbNone = 0</code>

EPSDShareMode

Purpose	Defines the shared access modes in which a schema database can be opened.
Applies to	PSDDatabaseQuery objects. OpenDatabase() method.
Constants	Constant <code>EPSDShareNone = 0</code> Constant <code>EPSDShareRead = 1</code> Constant <code>EPSDShareReadWrite = 3</code>

EPSDSyncAtom

- Purpose** Indicates the type of sync atom for which you call [GetSyncTypeInfo\(\)](#) to get the synchronization mode.
- Applies to** [PSDDatabaseAdapter](#) objects.
[GetSyncTypeInfo\(\)](#) method.
- Constants** Constant `PSDSyncAtomCategory = 2`
Indicates the type of synchronization for categories.
- Constant `PSDSyncAtomRow = 3`
Indicates the type of synchronization for records.
- Constant `PSDSyncAtomSchema = 1`
Indicates the type of synchronization for schemas.

EPSDSyncType

- Purpose** Indicates whether a conduit needs to perform a fast, slow, or no synchronization on all sync atoms of a particular type in a schema database.
- Applies to** [PSDDatabaseAdapter](#) objects.
[GetSyncTypeInfo\(\)](#) method.
- Constants** Constant `PSDSyncTypeFastSync = 1`
Indicates that the sync atom has changed and that all the change flags are valid.
- Constant `PSDSyncTypeNoChange = 0`
Indicates that the sync atom has not changed.
- Constant `PSDSyncTypeSlowSync = 2`
Indicates that the change flags (or lack of change flags) for the sync atom cannot be trusted and only an object-by-object comparison can determine whether the sync atom has changed.

ERecordAttributes

Purpose	Defines a database record's attribute flags.
Applies to	ReadById() , ReadByIndex() , ReadNext() , ReadNextInCategory() , ReadNextModified() , ReadNextModifiedInCategory() methods.
Constants	<div>Constant <code>eArchive = 8</code> Record has been archived.</div> <div>Constant <code>eDelete = 128 (&H80)</code> Record has been deleted.</div> <div>Constant <code>eDirty = 64 (&H40)</code> Record has been modified.</div> <div>Constant <code>eSecret = 16 (&H10)</code> Record is private.</div>

ERemoveSetType

Purpose	Defines the multirecord removal flags.
Applies to	RemoveSet() method.
Constants	<div>Constant <code>eRemoveAllDeletedRecords = 1</code> Remove all the records in the database that are marked deleted.</div> <div>Constant <code>eRemoveAllRecords = 0</code> Remove all records in the database.</div> <div>Constant <code>eRemoveAllRecordsInCategory = 2</code> Remove all records in the given category.</div>

Constants

ESyncPref

ESyncPref

Purpose	Defines the conduit configuration flags.
Applies to	CfgConduit() method.
Constants	<div>Constant <code>eNoPreference</code> = 0 Not specified.</div> <div>Constant <code>ePermanentPreference</code> = 1 Preferences are permanent.</div> <div>Constant <code>eTemporaryPreference</code> = 2 Preferences are for the next HotSync operation only.</div>

ESyncTypes

Purpose	Defines the HotSync synchronization types.
Applies to	SyncType property.
Constants	<div>Constant <code>eBackup</code> = 5 Backup handheld database to the desktop.</div> <div>Constant <code>eDoNothing</code> = 6 Do not do anything.</div> <div>Constant <code>eFast</code> = 0 Perform a fast synchronization.</div> <div>Constant <code>eHHtoPC</code> = 2 Copy handheld database to the desktop, overwrite all old records.</div> <div>Constant <code>eInstall</code> = 4 Install new application to the handheld.</div> <div>Constant <code>ePCtoHH</code> = 3 Copy desktop database to the handheld, overwrite all old records.</div> <div>Constant <code>eProfileInstall</code> = 7 Perform a profile download.</div> <div>Constant <code>eSlow</code> = 1 Perform a slow synchronization.</div>

EUpdateDbDates

Purpose	Defines which database dates to update when a database is closed.
Applies to	CloseOptions property.
Constants	<div>Constant eBackupDate = 128 (&H80) Update the last-backup date.</div> <div>Constant eBothDates = 192 (&Hc0) Update both last-backup and last-modified dates.</div> <div>Constant eModifiedDate = 64 (&H40) Update the last-modified date.</div> <div>Constant eNone = 0 Do not change dates.</div>

Hardware Capability Flags

Purpose	Indicates the capabilities of an expansion card.
Applies to	CapabilityFlags property.
Constants	<div>#define expCapabilityHasStorage 0x00000001 Indicates that the card has data storage. The expCapabilityReadOnly flag indicates whether the card can be written or only read, though.</div> <div>#define expCapabilityReadOnly 0x00000002 Indicates that the card is read-only.</div>
Comments	These constants are defined in the ExpansionMgr.h file in the C/C++ Sync Suite.

Constants

HotSync Manager Start Options Constants

HotSync Manager Start Options Constants

Purpose	Defines options for starting the HotSync Manager application with RestartHotSyncMgr() .
Applies to	RestartHotSyncMgr() method.
Constants	<pre>#define HSFLAG_DEVICE_SYNC_CHECK 0x00010000</pre> <p>Run HotSync Manager in start/stop sync mode. In this mode, during a HotSync operation with the handheld, HotSync Manager runs no conduits; it only validates the connection. This is the same as starting HotSync Manager from the command line with the <code>-c</code> option.</p> <pre>#define HSFLAG_INSPECT_CONDUIT 0x00001000</pre> <p>Run HotSync Manager and launch the Conduit Inspector utility. This is the same as starting HotSync Manager from the command line with the <code>-ic</code> option. For more information on Conduit Inspector, see Chapter 6, "Conduit Inspector Utility," on page 29 in the <i>Conduit Development Utilities Guide</i>. This value is defined only for HotSync Manager API versions 2 and later.</p> <pre>#define HSFLAG_LOG_DEBUG_LEVEL_1 0x00000100</pre> <p>Run HotSync Manager in debug log mode 1. This is the same as starting HotSync Manager from the command line with the <code>-L1</code> option.</p> <pre>#define HSFLAG_LOG_DEBUG_LEVEL_2 0x00000200</pre> <p>Run HotSync Manager in debug log mode 2. This is the same as starting HotSync Manager from the command line with the <code>-L2</code> option.</p> <pre>#define HSFLAG_NONE 0x00000000</pre> <p>Set no flags. This is the same as starting HotSync Manager from the command line with no options.</p> <pre>#define HSFLAG_RESTORE_REGISTRY 0x00000001</pre> <p>Restore any missing configuration entries. This is the same as starting HotSync Manager from the command line with the <code>-r</code> option.</p> <pre>#define HSFLAG_RESTORE_REGISTRY_DEFAULT 0x00000002</pre> <p>Restore configuration entries to defaults. This is the same as starting HotSync Manager from the command line with the <code>-d</code> option.</p>

```
#define HSFLAG_VERBOSE 0x00000010
```

Run HotSync Manager in verbose log mode. This is the same as starting HotSync Manager from the command line with the -v option.

Comments These constants are defined in the `HSAPI.h` file in the C/C++ Sync Suite. Each of these options corresponds to a HotSync Manager command-line option described in more detail in "[Using Command-line Options for HotSync Manager](#)" on page 24 in *Conduit Development Utilities Guide*.

Constants

VFS File and Directory Attributes

VFS File and Directory Attributes

Purpose	Defines the bits that can be used individually or in combination when setting or interpreting the attributes for a given file or directory.
Applies to	Attributes property.
Constants	<pre>#define vfsFileAttrArchive (0x00000020UL) Archived file or directory. #define vfsFileAttrDirectory (0x00000010UL) A directory, not a file. #define vfsFileAttrHidden (0x00000002UL) Hidden file or directory. #define vfsFileAttrLink (0x00000040UL) Link to another file or directory. #define vfsFileAttrReadOnly (0x00000001UL) Read-only file or directory. #define vfsFileAttrSystem (0x00000004UL) System file or directory. #define vfsFileAttrVolumeLabel (0x00000008UL) Volume label.</pre>
Comments	These constants are defined in the <code>VFSMgr.h</code> file in the C/C++ Sync Suite.

VFS Manager and Expansion Manager Media Type Constants

Purpose	Defines the media types supported by the Expansion Manager and VFS Manager.
Applies to	MediaType property.
Constants	<pre>#define ExpMediaType_Any 'wild' Matches all media types when looking up a default directory. #define ExpMediaType_CompactFlash 'cfsh' CompactFlash. #define ExpMediaType_MemoryStick 'mstk' Memory Stick. #define ExpMediaType_MultiMediaCard 'mmcd' MultiMediaCard. #define ExpMediaType_PlugNPlay 'pnps' Universal "plug and play" (PnP) connector. #define ExpMediaType_PoserHost 'pose' Host file system emulated by Palm OS® Emulator. #define ExpMediaType_RAMDisk 'ramd' A RAM-disk-based media. #define ExpMediaType_SecureDigital 'sdig' Secure Digital. #define ExpMediaType_SmartMedia 'smed' SmartMedia.</pre>
Comments	<p>These constants are defined in the <code>ExpansionMgr.h</code> file in the C/C++ Sync Suite. They are the values that the MediaType property of the PDExpansionCardInfo and PDVFSVolumeManager objects can be set to. They correspond exactly to the values of the EPDSlotMediaType enum defined in the PDStandard library; however, this enum is not defined in the PDDirect library, so this enum is not available to the Expansion and VFS Manager objects.</p> <p>Because the MediaType property returns a value of type Long, you can use the PDCondMgr.CreatorIDToString() method to convert it to one of the string values above.</p>

Constants

VFS Volume Attributes

VFS Volume Attributes

Purpose	Defines the bits that can be used individually or in combination when interpreting the attributes for a given volume.
Applies to	Attributes property.
Constants	<pre>#define vfsVolumeAttrHidden (0x00000002UL)</pre> <p>The volume should not be visible to the user. For more information, see “Hidden Volumes” on page 93 in the <i>COM Sync Suite Companion</i>.</p> <pre>#define vfsVolumeAttrReadOnly (0x00000002UL)</pre> <p>The volume is read only.</p> <pre>#define vfsVolumeAttrSlotBased (0x00000001UL)</pre> <p>The volume is associated with a slot driver as opposed to the Palm OS® Emulator.</p>
Comments	These constants are defined in the <code>VFSMgr.h</code> file in the C/C++ Sync Suite.

VFS Volume Mount Class Constants

Purpose	Defines how a given volume is mounted.
Applies to	Format() method. mountClass property.
Constants	<pre>#define vfsMountClass_Simulator sysFileTSimulator Mount the volume through the 68K Palm Simulator. This is used for testing. #define vfsMountClass_SlotDriver sysFileTSlotDriver Mount the volume with a slot driver shared library. #define sysFileTSimulator '\?\\?\?\' File type for 68K Palm Simulator files (app.tres, sys.tres). vfsMountClass_Simulator is defined as this value. #define sysFileTSlotDriver 'libs' File type for slot driver libraries. vfsMountClass_SlotDriver is defined as this value.</pre>
Comments	<p>These constants are defined in the <code>VFSMgr.h</code> file in the C/C++ Sync Suite. They are used in both the <i>mountClass</i> input parameter in the Format() method and in the mountClass property of a PDVFSVolumeManager object.</p> <p>Because the PDVFSVolumeManager.mountClass property returns a value of type Long, you can use the PDCondMgr.CreatorIDToString() method to convert it to one of the string values below.</p>

Constants

VFS Volume Mount Class Constants

Errors

This chapter describes the COM Sync error codes, implemented as constants defined in the `EPDDirectErrors` enum. The COM Sync Suite implements the standard-COM rich error handling protocol.

Visual Basic implements this error handling protocol and wraps it with the `Err` object. Because errors are returned using the standard Visual Basic B methodology, the Visual Basic developer and the COM-based conduit developer can find detailed usage information in the Microsoft Visual Studio online documentation.

This chapter describes the [COM Sync Error Codes](#) sorted alphabetically in [Table 7.1](#).

Errors

COM Sync Error Codes

COM Sync Error Codes

Table 7.1 COM Sync error codes

Error	Description
eAlreadyExists	The creator ID that you specified to use as a new creator ID in the configuration entry is already in use. If an install conduit, the unique ID that you specified is already in use.
eAlreadyInstalled	The specified conduit or notifier is already installed.
eBadAdapterName	Returned if the Adapter name (ProgID) doesn't resolve to a registered CLSID. The following PDDatabaseQuery methods can cause this error: OpenRecordDatabase() , OpenResourceDatabase() , CreateRecordDatabase() , and CreateResourceDatabase() .
eBadOperation	Returned by the Sync Manager API. The requested operation is not supported on the given database type (record or resource).
eBufferTooSmall	Returned by the Sync Manager API. The passed buffer is too small for the reply data.
eCantCreateConduit	The conduit could not be registered with HotSync® Manager.
eCantSetValue	The specified conduit configuration entry could not be set.
eCommunications	Communications with the handheld has either not been initialized or has been lost.
eDatabaseMismatch	Attempts to open a database of the wrong type, record vs. resource, or use a mismatched database adapter to return this error. The following PDDatabaseQuery methods can cause this error: OpenRecordDatabase() and OpenResourceDatabase() .

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eDuplicateName	Specified name already exists.
eFailedToDelete	Failed to delete the configuration entries for the specified conduit. Or failed to remove the specified install file because, for example, the file does not exist.
eFileExists	Attempts to create a database that exists causes this error. Some PDDatabaseQuery methods that cause this error are CreateRecordDatabase() and CreateResourceDatabase() .
eFileInUse	Specified file already exists.
eFileIsOpen	Attempting to open or remove an open database returns this error. The following PDDatabaseQuery methods can cause this error: OpenRecordDatabase() and RemoveDatabase() .
eFileNotOpen	Returned by the Sync Manager API. The attempt to open the database failed.
eHotSyncLogError	Returned by AddLogEntry() method.
eHotSyncNotFound	HotSync Manager is not running.
eHSAPIFailure	PDHotSyncUtility cannot communicate with HotSync Manager.
eIDInUse	The specified user ID is already in use.
eIndexOutOfRange	The specified index value is out of range.
eInvalidConnType	The specified HotSync Manager connection type is not one defined by EPDHSConnectionType .
eInvalidID	The specified conduit creator ID is not valid.

Errors

COM Sync Error Codes

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eInvalidInstallID	The specified unique ID for an install conduit is not valid.
eInvalidPath	The specified path is longer than 256 characters. Methods that generate this error check only the length of the path, not whether it is invalid for any other reason (invalid characters, file does not exist, and so on).
eInvalidType	The specified HotSync Manager connection type status is not one defined by EPDHSCConnectionStatus .
eInvalidUser	If supplied a user ID, it is Null or not for an available user. If supplied a user name, it is Null or more than 20 characters long.
eInvalidUserDir	The specified user directory is invalid.
eLocalMemory	Not enough memory on the desktop to perform the requested operation.
eMoveFailed	Failed to move the specified install file because, for example, the file does not exist
eNoCorePath	A value for the Core\Path configuration entry does not exist. See GetRootDirectory() .
eNoHSPath	PDHotSyncUtility could not find the HotSync Manager path.
eNoServerObject	Unused.
eNoSuchConduit	The specified conduit does not exist.

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eNotAttached	If you create a PSDRowData object without attaching it to any table and try to set some values, this error is returned by all PSDRowData methods if they are called before calling AttachToTable() . This is not true when a PSDRowData object is returned by ReadRow() .
eNotFound	Returned by the Sync Manager API. Returned by PDRecordAdapter or PDResourceAdapter ReadXXX methods when the Index or UniqueId does not resolve to an existing record. This includes attempts to read past EOF.
eNotifierNotFound	The specified notifier is not registered.
eNoUsers	The users data file does not contain any user information.
eObjectCreation	Returned if the COM Sync module is unable to create the adapter object. The following PDDatabaseQuery methods can cause this error: OpenRecordDatabase() , OpenResourceDatabase() , CreateRecordDatabase() , and CreateResourceDatabase() .
eOsVersion	Unused.
eOtherError	An unspecified error occurred.
eOtherUDErr	Either the specified directory or filename is bad, the user data store could not be accessed, or another method or program is accessing the user data store (only one process can access the user data store at a time).

Errors

COM Sync Error Codes

Table 7.1 COM Sync error codes (*continued*)

Error	Description
ePalmLogFull	Returned by the Sync Manager API. A data limit has been exceeded on the handheld. For example, this happens when the HotSync log size limit has been exceeded on the handheld.
eParamError	Returned by all methods and properties to indicate any parameter error detected.
ePathBig	The path or string is more than 256 characters long.
ePSDAccessDenied	The Authorization Manager on the handheld denied access to the database or the database cannot be unencrypted.
ePSDBackupBitNotSet	Backup failed because the database's backup bit was not set.
ePSDBuiltinProperty	Cannot modify or remove a built-in column property.
ePSDCategoryNameNotSpecified	A category name has not been specified.
ePSDColumnIDExists	The column with the specified ID already exists.
ePSDDeviceNotConnected	The operation cannot complete without the device connected.
ePSDDiskFull	A write to the desktop disk failed because the disk is full.
ePSDInvalidCategoryID	The specified category ID is invalid.
ePSDInvalidColumnID	The specified column ID is invalid.
ePSDInvalidColumnName	The specified column name is invalid—for example, the name contains spaces.
ePSDInvalidColumnSize	The specified column data size for a fixed-sized column is invalid.

Table 7.1 COM Sync error codes (*continued*)

Error	Description
ePSDInvalidColumnSpec	One or more of the column attributes is invalid.
ePSDInvalidColumnType	The specified column type is invalid.
ePSDInvalidHandle	The specified database handle is 0, which is an invalid value.
ePSDInvalidID	The specified ID is invalid.
ePSDInvalidImage	The image being installed is not a valid PalmOS database.
ePSDInvalidMatchMode	An invalid match mode is specified.
ePSDInvalidPropID	The specified property ID is invalid.
ePSDInvalidTableDefn	The specified table definition is invalid.
ePSDInvalidTableName	The specified table name is invalid—for example, the name contains spaces.
ePSDMaxCategoryLimit	Cannot add another category, because the maximum number of categories already exists.
ePSDNamesAlreadyExists	The specified column or table name already exists.
ePSDNoData	No column data is present.
ePSDNoSecureDatabaseCreationFromDesktop	Cannot create a secure database on the handheld from the desktop.
ePSDNotRecordDB	A method that operates only on classic <i>record</i> databases attempted to operate on a classic <i>resource</i> database.
ePSDNotSchemaDB	A method that operates only on <i>schema</i> databases attempted to operate on a <i>nonschema</i> database.

Errors

COM Sync Error Codes

Table 7.1 COM Sync error codes (*continued*)

Error	Description
ePSDNotSecureDB	A method that operates only on <i>secure</i> databases attempted to operate on a <i>nonsecure</i> database.
ePSDOperationAborted	The writing of column values has aborted because of one or more invalid inputs.
ePSDOptionCantBeUsedAlone	When opening a database, the eShowSecret open mode cannot be specified by itself.
ePSDPathNotFound	The directory or file path is not valid.
ePSDRemotePassword	Backup or restore of security data failed because of an invalid password.
ePSDRetrievalFailure	Retrieval of one or more column definitions, column values, or column property values failed.
ePSDRowsExist	Cannot remove the specified table because rows that belong to it still exist.
ePSDStreamError	An error while streaming the data to the handheld.
ePSDTableNameNotSpecified	A table name has not been specified.
eReadOnlyMode	Returned by the Sync Manager API. Returned by PDRecordAdapter or PDResourceAdapter methods when an attempt has been made to write to or change a database opened in read-only mode.
eRecordDeleted	A record specified by ID has been deleted. Can be returned by ReadRow() .
eRegistryFailure	Unable to access the conduit configuration entries.
eRemoteMemory	Returned by the Sync Manager API. There is insufficient memory on the handheld to receive or complete the request.

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eSaveErr	Saving changes was not successfully completed.
eSyncApiError	Unused.
eSyncApiVersion	The following PDSystemAdapter methods are unavailable for Sync Manager versions prior to version 2.2: CallRemoteModule() and ReadFeature() .
eSyncCanceled	Returned by the Sync Manager API. The HotSync operation was cancelled by the desktop computer user.
eUDSemaphoreError	Another method or program is accessing the user data store.
eUDUnableToCreate	PDUserData could not create a new file.
eUnableToClose	PDHotSyncUtility cannot close HotSync Manager.
eUnableToStart	PDHotSyncUtility cannot start the HotSync Manager application.
eUnknownRequest	Returned by the Sync Manager API. The handheld is running an unsupported version of the HotSync protocol—for example, when a function that works only with Palm OS Cobalt is called against a handheld running an earlier version of Palm OS.
eUserExists	No such user exists or no users exist.
eValueNotFound	The specified value could not be found in the configuration entries for this conduit.
eVFSBadData	The operation could not be completed because of invalid data—for example, importing a database from a corrupted PRC file.

Errors

COM Sync Error Codes

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eVFSBadName	Invalid filename, path, or volume label. See “ Naming Files ” on page 98, “ Directory Paths ” on page 100, or “ Naming Volumes ” on page 95 in the <i>COM Sync Suite Companion</i> .
eVFSBufferOverflow	The supplied buffer is too small.
eVFSCardNotPresent	No expansion card is present in the given slot.
eVFSDirectoryNotFound	The full path, excluding filename or new directory name, does not exist or no default directory is registered for this file type.
eVFSDirNotEmpty	The directory is not empty and therefore cannot be deleted.
eVFSDiskFileAccess	Failed to create or open the disk file on the desktop.
eVFSDiskFull	Not enough space on the desktop’s disk.
eVFSEnumerationEmpty	No volumes are present to enumerate or none remain to enumerate.
eVFSFileAccessOther	Generic desktop file access error. If returned by CopyFileToDeskTop() , it could not access or map the desktop file—for example, because of insufficient memory on the desktop.
eVFSFileAlreadyExists	A file or a directory with this name exists in this location already.
eVFSFileBadRef	The file reference number is invalid: it has been closed or was not obtained from Open() .
eVFSFileEOF	Reaching the end of a file is not treated as an error by the COM Sync module, but as a state change for the open file. See the EOF property.
eVFSFileGeneric	Generic VFS Manager file error.

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eVFSFileNotFound	The file was not found in the specified path.
eVFSFilePermissionDenied	Permission denied to perform requested operation—for example, an attempt to write to a read-only file or to read a file already opened in the eVFSModeExclusive mode.
eVFSFileStillOpen	The file is still open—for example, trying to delete or rename an open file.
eVFSInvalidOperation	A file system is not present or the VFS Manager method is not valid.
eVFSInvalidSlotNumber	The slot reference number is not valid.
eVFSIsADirectory	This operation can be performed only on a regular file, not a directory.
eVFSNameShortened	A volume name or filename was automatically shortened to conform to the file system specification.
eVFSNoFileSystem	None of the file systems installed on the handheld support this operation.
eVFSNoSectorReadWrite	The expansion card does not support the slot driver block read/write API.
eVFSNotADirectory	This operation can be performed only on a directory.
eVFSNotEnoughPower	Insufficient battery power on the handheld to perform the operation.
eVFSNotOpen	The file system library on the handheld necessary for this call has not been installed or has not been opened.
eVFSSlotDeallocated	The slot reference number is within the valid range, but the Expansion Manager has unloaded the slot driver on the handheld.

Errors

COM Sync Error Codes

Table 7.1 COM Sync error codes (*continued*)

Error	Description
eVFSUnimplemented	This call is not implemented.
eVFSUnsupportedOperation	Either virtual file systems are not present on the handheld or the handheld does not have an expansion slot.
eVFSVolumeBadRef	The volume reference number is invalid because, for example, the volume has not been mounted.
eVFSVolumeFull	There is insufficient space left on the volume.
eVFSVolumeStillMounted	The volume is still mounted.
S_OK	Returned by all methods and properties when there are no errors.

Revision History

This appendix lists significant additions and changes in each release of the COM Sync Suite, part of the Palm OS® CDK for Windows:

Changes in COM Sync Suite 6.0.1	591
Changes in COM Sync Suite 6.0	593
Changes in COM Sync Suite 4.03.	595
Changes in COM Sync Suite 4.01/4.02/4.02a	596

For a summary of the enhancements and new features available in the last few releases of the CDK, see [Chapter 1](#), “[What’s New in the Palm OS CDK](#),” on page 1 in a *Introduction to Conduit Development*.

Changes in COM Sync Suite 6.0.1

This section lists the COM Sync Suite APIs that are new or changed in version 6.0.1 of the CDK:

- Added the following values to the [ELogActivity](#) enum to match those available in the C API:
 - eDoubleModifySubsc
 - eFileLinkCompleted
 - eFileLinkDeleted
 - eSyncDidNothing
 - eSyncSessionStart
 - eSyncSessionEnd
 - eSyncSessionCancelled
 - eError
 - eRecommendation
 - eHTMLText

Revision History

Changes in COM Sync Suite 6.0.1

- Added the [PSDDatabaseUtilities](#) object to provide the following new methods:
 - [BackupDatabase\(\)](#)
 - [CallDeviceApplication\(\)](#)
 - [InstallAndBackupDatabase\(\)](#)
 - [IsDatabaseBackupNeeded\(\)](#)

The remaining methods provided in this object are duplicated for convenience from the [PSDDatabaseQuery](#) object.

- Added the [PDSystemCondMgr](#) object, which provides methods for registering and managing conduits that are registered for the system. These methods are similar to those defined in [PDCondMgr](#) for conduits that are registered for the current Windows user.
- Added the following values to the [EGetConduitInfo](#) enum to enable your conduit to opt out of certain default HotSync Manager behaviors:
 - `ePDDoNotDisplayInConduitListForUser`
 - `ePDDoNotDisplayProgress`
 - `ePDRunAlways`

Only HotSync Manager versions 6.0.1 or later query your conduit's [GetConduitInfo\(\)](#) entry point for these options.

- Added the [EPDRunOptions](#) enum to specify a [GetConduitInfo\(\)](#) return value when the input parameter `infoType = ePDRunAlways`.
- Added the [EPSDDBAttribute](#) enum to specify whether a database is a schema, extended, or classic database in certain methods that work with all types of databases.
- The following have been deprecated because the file link feature has been removed from HotSync Manager 6.0.1:
 - [LaunchFileLinkDlg\(\)](#) method
 - [ELogActivity](#) enum values `eDoubleModifySubsc`, `eFileLinkCompleted`, and `eFileLinkDeleted`

Changes in COM Sync Suite 6.0

This section lists the COM Sync Suite objects that are new in version 6.0 of the CDK:

Extended Database Objects	593
Schema Database Objects	594

Extended Database Objects

The extended database objects enable conduits to access [extended databases](#) on handhelds running Palm OS® Cobalt. The object model for extended databases mirrors that of [classic databases](#), except that extended databases do not support resources and must be identified by both name and creator ID. These objects are detailed in this reference:

- [“DmCategories”](#) on page 8
- [“DmDatabaseInfo”](#) on page 10
- [“DmDatabaseQuery”](#) on page 12
- [“DmRecordAdapter”](#) on page 13

Schema Database Objects

The schema database objects enable conduits to access [schema databases](#) on handhelds running Palm OS Cobalt. The object model for schema databases is quite different from that of [classic databases](#) and [extended databases](#). These objects are detailed in this reference:

- “[PSDCategoryAdapter](#)” on page 94
- “[PSDColumnInfo](#)” on page 95
- “[PSDDatabaseAdapter](#)” on page 96
- “[PSDDatabaseInfo](#)” on page 98
- “[PSDDatabaseQuery](#)” on page 100
- “[PSDRowAdapter](#)” on page 104
- “[PSDRowData](#)” on page 106
- “[PSDRowSet](#)” on page 108
- “[PSDTable](#)” on page 109

Miscellaneous Changes

This version of the COM Sync Suite includes the following changes:

- Added the [PAddressDbHHRecord.DisplayPhone](#) property so that you can specify which contact information (phone number, email address, etc.) to display in the Address Book list view.
- Fixed a problem with [ReadUniqueIdList\(\)](#) in which it did not pass back a correct value for the number of record IDs returned (*nRead*) when the start index (*nFirstIndex*) is nonzero. In this version, this method correctly passes back via *nRead* the number of record IDs it returns.
- In HotSync Manager versions 6.0 and later (Sync Manager versions 2.4 and later), setting the system time via the [PSystemAdapter.DateTime](#) property works only if the handheld is running Palm OS Cobalt.
- Removed the `vfsMountClass_POSE` constant from “[VFS Volume Mount Class Constants](#)” on page 577, because it cannot be used from the desktop VFS Manager.

Changes in COM Sync Suite 4.03

This section lists the COM Sync Suite objects and other features that are new in version 4.03 of the CDK:

- [Installation and Support Objects](#)
- [Expansion Manager and VFS Manager Objects](#)
- [PIM Database and Record Objects](#)

Installation and Support Objects

These objects enable installers and desktop applications to register conduits and install conduits with HotSync[®] Manager and retrieve information about them, queue files for installation on the handheld, access information about handheld users on the desktop, and control the HotSync Manager application. These objects are detailed in this reference:

- [“PDCondMgr”](#) on page 26
- [“PDConduitInfo”](#) on page 28
- [“PDInstallConduit”](#) on page 58
- [“PDInstallConduitInfo”](#) on page 59
- [“PDHotSyncUtility”](#) on page 54
- [“PDInstall”](#) on page 56
- [“PDUserData”](#) on page 82

See [Chapter 4, “Writing an Installer,”](#) on page 51 in the *COM Sync Suite Companion* for further discussion on using these objects.

Expansion Manager and VFS Manager Objects

These objects enable conduits and desktop applications to access expansion slots on a handheld and the virtual file systems on cards in these slots. These objects are detailed in this reference:

- [“PDExpansionManager”](#) on page 51
- [“PDExpansionCardInfo”](#) on page 50
- [“PDVFSManager”](#) on page 90
- [“PDVFSVolumeManager”](#) on page 91

Revision History

Changes in COM Sync Suite 4.01/4.02/4.02a

- [“PDVFSManager”](#) on page 90

See [Chapter 5, “Using Expansion Technology,”](#) on page 71 in the *COM Sync Suite Companion* for a full discussion on using these objects.

PIM Database and Record Objects

These objects enable conduits to easily access the databases of four standard Palm OS® applications: Address Book, Date Book, To Do List, and Memo Pad. For each of these personal information management (PIM) applications, the COM Sync module includes a database adapter object to access its database and a record object to represent the fields in each record. These objects are detailed in this reference:

- [“PDAddressDbHHRecordAdapter”](#) on page 19
- [“PDAddressDbHHRecord”](#) on page 16
- [“PDDateBookDbHHRecordAdapter”](#) on page 40
- [“PDDateBookDbHHRecord”](#) on page 34
- [“PDToDoDbHHRecordAdapter”](#) on page 77
- [“PDToDoDbHHRecord”](#) on page 75
- [“PDMemoDbHHRecordAdapter”](#) on page 61
- [“PDToDoDbHHRecord”](#) on page 75

Changes in COM Sync Suite 4.01/4.02/4.02a

The COM Sync Suite for Windows was first released in CDK 4.01 and remained unchanged in CDK 4.02/4.02a.

Private Methods and Properties

Some methods and properties visible in the COM Sync objects are *not* supported for use in your conduit. This list is documented here only because you may see these names in your IDE's object browser and may not recognize the implications of using them.

The following private methods are in the PD<PIM>DbHHRRecord objects:

- ReadFromByteStream
- WriteToByteStream

The following private property is in the [PDVFSVolumeManager](#) object:

- CreatorCode

Private Methods and Properties

Index

A

- AccessMode 442
- AddCategory() 112
- AddCategoryMembership() 113
- AddColumn() 114
- AddLogEntry() 115
- AddNewUser() 117
- Address 443
- Address Book
 - database adapter object 19
 - record object 16
- AddRow() 118
- AddTable() 119
- AlarmAdvanceTime 443
- AlarmAdvanceUnits 443
- AllBytesToBSTR() 120
- AppInfoSize 444
- AttachToTable() 121
- Attributes 444, 445
- attributes
 - file and directory 574
 - volume 576

B

- BackupDatabase() 122
- BackupDate 445
- BackupSecurityData() 125
- BeginProcess() 126
- BOF 446
- BSTRToByteArray() 127
- BSTRToDWORD() 128
- ByteArrayToBSTR() 129
- ByteArrayToDWORD() 130
- ByteArrayToHexBSTR() 131
- ByteArrayToRecordId() 133
- ByteArrayToWORD() 134

C

- CallDeviceApplication() 135
- CallRemoteModule() 139
- capability flags, hardware 571
- CapabilityFlags 446
- CardName 446

- CardNum 447
- CardVersion 447
- CategoryId 448
- CategoryIDList 449
- CDK
 - documentation xxii
- CfgConduit() 143
- ChangeCategory() 145
- ChangeFileDestinationHHToSlot() 146
- ChangeFileDestinationSlotToHH() 148
- ChangeFileSlotDestination() 150
- City 449
- classic databases
 - Sync Manager
 - COM API 66
- Close() 152
- CloseDatabase() 153
- CloseOptions 450
- ColumnIDFromName 451
- ColumnNameFromID 451
- COM Sync
 - constants 533
 - error codes 580
 - objects 7
 - revision history, APIs 591
- COMClassID 452
- common Sync Manager API 102
- Company 452
- compatibility
 - APIs, COM Sync Suite 591
- conduits
 - entry points
 - COM interface 5
- ConfigureConduit() 154
- ConnectionType 453
- constants, COM Sync Suite 533
- CopyFileFromDeskTop() 156
- CopyFileToDeskTop() 158
- Country 453
- CreateDatabase() 160
- CreateDate 454
- CreateDirectory() 161
- CreateFile() 163
- CreateRecordDatabase() 165

CreateResourceDatabase() 167
CreationDate 454, 455
Creator 456
CreatorID 456, 457
CreatorIDToString() 169
Custom1 457
Custom2 457
Custom3 458
Custom4 458

D

DataBytes 458
DataType 459
Date Book
 record object 37
DateTime 460
DaysMaskForWeeklyRepeat 461
DbFlags 462
DbIndex 463
DbName 463
DbType 464
Delete() 170
DeleteAllRowsInTable() 172
DeleteDatabase() 173
DeleteKey() 174
DeleteRow() 175
DeleteRowsInCategory() 176
DeleteUser() 177
DeleteUserPermanentSyncPreferences() 178
DeleteUserTemporarySyncPreferences() 180
Description 464
DeskTopDataDirectory 465
DeskTopDataFile 466
DeviceClass 466
DeviceUniqueId 467
Directory 467
directory attributes 574
Dirty 468
DisplayLog() 182
DisplayName 468, 470
DisplayPhone 470
DmCategories 8, 471
DmDatabaseInfo 10, 472

DmDatabaseQuery 12
DmRecordAdapter 13
documentation xxii
DueDate 472
DWORDToBSTR() 183
DWORDToByteArray() 184
Dynamic 473

E

EAccessModes 534
eAlreadyExists 580
eAlreadyInstalled 580
eBadAdapterName 580
eBadOperation 580
eBufferTooSmall 580
eCantCreateConduit 580
eCantSetValue 580
eCommunications 580
EConnectionType 535
eDatabaseMismatch 580
EDbFlags 535
eDuplicateName 581
eFailedToDelete 581
eFileExists 581
eFileInUse 581
eFileIsOpen 581
eFileNotOpen 581
EFirstSync 537
EGetConduitInfo 537
eHotSyncLogError 581
eHotSyncNotFound 581
eHSAPIFailure 581
eIDInUse 581
eIndexOutOfRange 581
eInvalidConnType 581
eInvalidID 581
eInvalidInstallID 582
eInvalidPath 582
eInvalidType 582
eInvalidUser 582
eInvalidUserDir 582
eLocalMemory 582
ELogActivity 540

EMfcVersion 543	EPSDDatabaseFlags 558
eMoveFailed 582	EPSDDBAttribute 560
Encoding 473	EPSDDesktopTrustStatus 561
EndTime 473	ePSDDeviceNotConnected 584
eNoCorePath 582	ePSDDiskFull 584
eNoHSPath 582	EPSDEncodingType 562
eNoServerObject 582	ePSDInvalidCategoryID 584
eNoSuchConduit 582	ePSDInvalidColumnID 584
eNotAttached 583	ePSDInvalidColumnName 584
eNotFound 583	ePSDInvalidColumnSize 584
eNotifierNotFound 583	ePSDInvalidColumnSpec 585
eNoUsers 583	ePSDInvalidColumnType 585
eObjectCreation 583	ePSDInvalidHandle 585
EOF 474	ePSDInvalidID 585
eOsVersion 583	ePSDInvalidImage 585
eOtherError 583	ePSDInvalidMatchMode 585
eOtherUDerr 583	ePSDInvalidPropID 585
ePalmLogFull 584	ePSDInvalidTableDefn 585
eParamError 584	ePSDInvalidTableName 585
ePathBig 584	EPSDMatchMode 566
EPDAlarmAdvTimeUnits 543	ePSDMaxCategoryLimit 585
EPDDayIndex 544	ePSDNamesAlreadyExists 585
EPDDirectErrors 579	ePSDNoData 585
EPDDisplayPhone 545	ePSDNoSecureDatabaseCreationFrom- DeskTop 585
EPDFileOrigin 545	ePSDNotRecordDB 585
EPDHSConnectionStatus 546	ePSDNotSchemaDB 585
EPDHSConnectionType 546	ePSDNotSecureDB 586
EPDPathType 547	EPSDOpenMode 566
EPDPhoneLabels 548	ePSDOperationAborted 586
EPDRepeatType 549	ePSDOptionCantBeUsedAlone 586
EPDRunOptions 550	ePSDPathNotFound 586
EPDSlotMediaType 551	ePSDRemotePassword 586
EPDUserSyncAction 552	ePSDRetrievalFailure 586
EPDVFSFileOpenAttr 553	ePSDRowsExist 586
EPDVFSFileSystemType 554	EPSDSearch 567
EPDWeekIndex 555	EPSDShareMode 567
ePSDAccessDenied 584	ePSDStreamError 586
ePSDBackupBitNotSet 584	EPSDSyncAtom 568
ePSDBuiltinProperty 584	EPSDSyncType 568
ePSDCategoryNameNotSpecified 584	ePSDTableNameNotSpecified 586
EPSDCloseOptions 555	eReadOnlyMode 586
EPSDColumnDataTypes 556	ERecordAttributes 569
ePSDColumnIDExists 584	

eRecordDeleted 586
eRegistryFailure 586
eRemoteMemory 586
ERemoveSetType 569
error codes, COM Sync 580
eSaveErr 587
eSyncApiError 587
eSyncApiVersion 587
eSyncCanceled 587
ESyncPref 570
ESyncTypes 570
eUDSemaphoreError 587
eUDUnableToCreate 587
eUnableToClose 587
eUnableToStart 587
eUnknownRequest 587
EUpdateDbDates 571
eUserExists 587
eValueNotFound 587
eVFSBadData 587
eVFSBadName 588
eVFSBufferOverflow 588
eVFSCardNotPresent 588
eVFSDirectoryNotFound 588
eVFSDirNotEmpty 588
eVFSDiskFileAccess 588
eVFSDiskFull 588
eVFSEnumerationEmpty 588
eVFSFileAccessOther 588
eVFSFileAlreadyExists 588
eVFSFileBadRef 588
eVFSFileEOF 588
eVFSFileGeneric 588
eVFSFileNotFound 589
eVFSFilePermissionDenied 589
eVFSFileStillOpen 589
eVFSInvalidOperation 589
eVFSInvalidSlotNumber 589
eVFSIsADirectory 589
eVFSNameShortened 589
eVFSNoFileSystem 589
eVFSNoSectorReadWrite 589
eVFSNotADirectory 589

eVFSNotEnoughPower 589
eVFSNotOpen 589
eVFSSlotDeallocated 589
eVFSUnimplemented 590
eVFSUnsupportedOperation 590
eVFSVolumeBadRef 590
eVFSVolumeFull 590
eVFSVolumeStillMounted 590
ExcludeFromSync 476
ExportDatabaseToFile() 186
extended databases
 Sync Manager
 COM API 13
Extension 476

F

file attributes 574
FileName 477
FileSystemType 477
FirstName 478
FirstSync 478
Flags 479
Format() 188
FreeRamSize 479

G

GenerateBackupFileName() 190
GetAllQueuedHHFiles() 192
GetAllQueuedHHFilesOfType() 193
GetAllQueuedSlotFiles() 194
GetBackupConduit() 196
GetCardInfo() 197
GetCategoryAdapter() 198
GetCategoryCount() 199
GetCategoryMembership() 200
GetChangeContext() 201
GetColumnCount() 203
GetColumnCustomProperty() 204
GetColumnIDList() 205
GetColumnInfoByID() 206
GetColumnInfoByName() 207
GetColumnNames() 208
GetColumnsWithData() 209

GetCommStatus() 210
GetConduitCount() 211
GetConduitInfo() 212, 213
GetConduitList() 217
GetCount() 218
GetCurrentRowID() 219
GetDatabaseHandle() 220
GetDatabaseInfo() 221
GetDataSize() 222
GetDataType() 223
GetDefaultDirectory() 224
GetDeskTopTrustStatus() 226
GetDWORDData() 227
GetExceptionDates() 229
GetFileList() 230
GetHHFileSize() 232
GetIDFromName() 233
GetIDFromPath() 234
GetIDList() 235
GetIntegerValue() 236
GetModifiedIDList() 237
GetModifiedTableNames() 238
GetNameList() 239
GetNotifierList() 240
GetPath() 241
GetRootDirectory() 242
GetRowAdapter() 243
GetRowCount() 244
GetRowCountInTable() 245
GetSlotCount() 246
GetSlotDisplayName() 247
GetSlotFileCount() 248
GetSlotFileSize() 249
GetSlotInfo() 250
GetSlotInstallDirectory() 252
GetSlotList() 254
GetSlotMediaType() 255
GetSlotReferenceNumbers() 256
GetStringData() 257
GetStringValue() 259
GetSubDirectoryList() 260
GetSyncTypeInfo() 262
GetTableCount() 263

GetTableInfo() 264
GetTableNames() 265
GetUserCount() 266
GetUserDirectory() 267
GetUserList() 268
GetUserNameFromID() 269
GetUserPassword() 270
GetUserPermanentSyncPreferences() 271
GetUserTemporarySyncPreferences() 272
GetVolumeCount() 273
GetVolumeManager() 274
GetVolumeReferenceList() 275

H

HandHeldDB 480
hardware capability flags 571
HHOsVersion() 277
HotSync log
 COM API 115
HotSync Manager
 COM API 54

I

ID 480
ImportDatabaseFromFile() 278
Index 481
InputBufferSize 481
Install Aide
 COM object 56
Install Conduit Manager
 COM API 58
InstallAndBackupDatabase() 280
InstallDatabase() 282
InstallFileToHH() 283
InstallFileToSlot() 285
interface, IPDClientNotify 5
IPDClientNotify 5
IsAlarmSet 483
IsArchived 483
IsArchived() 287
IsCompleted 483
IsDatabaseBackupNeeded() 288
IsDataModified() 291

IsDataPresent 484
IsDeleted 484
IsDeleted() 292
IsDirty 484
IsDirty() 293
IsEventNotTimed 485
IsEventRepeatable 485
IsExpansionSlotPresent() 294
IsMembershipModified() 295
IsPrivate 485, 486
IsProfileUser() 296
IsRam 486
IsReadOnly 487
IsReadOnlyDatabase 487
IsRowInCategory() 297
IsSecureDatabase 487
IsSyncInProgress() 298
IsVolumeAvailable() 299
IterationIndex 488

J

JavaClassName 488
JavaClassPath 489

L

Label 490
LastAccessedDate 490
LastId 491
LastModificationDate 491
LastName 492
LastSyncDate 492
LastSyncPC 492
LaunchCustomDlg() 300
LaunchFileLinkDlg() 301
LaunchSetupDlg() 302
LocalizationId 493
LocalName 493

M

ManufacturerName 493
ManufName 494
Mask 494
MaxAllowedRecordSize 495

MaxRecordSize 496
MaxSize 496
MediaType 497
Memo 499
Memo Pad
 database adapter object 61
 record object 60
ModCount 499
ModDate 500
ModifyDate 500
ModifyNotifier() 303
ModifyNumber 500
ModifyRow() 305
Module 501
mountClass 501
MoveFirst() 306
MoveLast() 307
MoveNext() 308
MovePrevious() 309
MoveRowsToCategory() 310
MoveTo() 311

N

Name 502, 503, 504, 505
NameList 505
NonSyncable 506
Notes 506

O

objects, COM Sync Suite 7
Open() 312
OpenDatabase() 314
OpenRecordDatabase() 315
OpenResourceDatabase() 317

P

Password 507
PathName 507
PDAddressDbHHRecord 16
PDAddressDbHHRecordAdapter 19
PDCategories 24, 508
PDCondMgr 26
PDConduitInfo 28

PDDatabaseInfo 30, 509
PDDatabaseQuery 32
PDDateBookDbHHRecord 34
PDDateBookDbHHRecord2 37
PDDateBookDbHHRecordAdapter 40
PDDateBookDbHHRecordAdapter2 45
PDExpansionCardInfo 50
PDExpansionManager 51
PDHotSyncInfo 52, 509
PDHotSyncUtility 54
PDInstall 56
PDInstallConduit 58
PDInstallConduitInfo 59
PDMemoDbHHRecord 60
PDMemoDbHHRecordAdapter 61
PDMemoryCardInfo 65, 510
PDRecordAdapter 66
PDResourceAdapter 69
PDSystemAdapter 71
PDSystemCondMgr 73
PDToDoDbHHRecord 75
PDToDoDbHHRecordAdapter 77
PDUserData 82
PDUserInfo 85, 510
PDUtility 86
PDVFSFileManager 88
PDVFSManager 90
PDVFSVolumeManager 91
Phone1 511
Phone2 511
Phone3 511
Phone4 511
Phone5 512
PhoneLabel1 512
PhoneLabel2 512
PhoneLabel3 513
PhoneLabel4 513
PhoneLabel5 513
PIM objects
 Address Book
 database adapter 19
 record 16

 Date Book
 database adapter 45
 record 37
 Memo Pad
 database adapter 61
 record 60
 To Do List
 database adapter 77
 record 75
plug and play media type 551, 575
Priority 514
private methods and properties, COM API 597
ProductId 514
ProductName 515
programming style xxviii
PSDCategoryAdapter 94
PSDColumnInfo 95
PSDDatabaseAdapter 96
PSDDatabaseInfo 98
PSDDatabaseQuery 100
PSDDatabaseUtilities 102
PSDRowAdapter 104
PSDRowData 106
PSDRowSet 108
PSDTable 109
PurgeAllRowsInTable() 318

R

RamDbCount 515
RamSize 515
Read() 319
ReadAppInfoBlock() 321
ReadAppPreference() 322
ReadBackupImageInfo() 323
ReadById() 324
ReadByIndex() 326
ReadColumnValue() 328
ReadColumnValues() 329
ReadDatabaseInfoByName() 330
ReadDatabaseInfoByNameCreator() 331
ReadDatabaseNameList() 332, 333
ReadDbInfoByCreatorType() 334

ReadDbInfoByName() 336
 ReadDbNameList() 337
 ReadFeature() 338
 ReadIDList() 339
 ReadModifiedIDList() 340
 ReadModifiedRows() 341
 ReadNext() 342
 ReadNextInCategory() 344
 ReadNextModified() 346
 ReadNextModifiedInCategory() 348
 ReadNextResource() 350
 ReadResource() 351
 ReadRow() 352
 ReadRowInfo() 353
 ReadRows() 354
 ReadRowsByIDList() 355
 ReadSortInfoBlock() 356
 ReadUniqueIdList() 357
 RebootSystem() 359
 RecordCount 516
 RecordIdToByteArray() 360
 RecordIdToString() 362
 Refresh() 363
 RefreshConduitInfo() 364
 RegisterConduit() 365
 RegisterIC() 368
 registering notifiers
 COM API 26
 RegisterNotifier() 370
 RegistryKey 516
 RegistryPath 517
 RemoteNameCount 517
 Remove() 371
 RemoveAllResources() 372
 RemoveAllSecretRowsInTable() 373
 RemoveCategory() 374
 RemoveCategoryFromAllRows() 375
 RemoveCategoryMembership() 376
 RemoveColumnCustomProperty() 377
 RemoveColumns() 378
 RemoveDatabase() 379
 RemoveFileFromHHQueue() 380
 RemoveFileFromSlotQueue() 381
 RemoveResource() 382
 RemoveRow() 383
 RemoveSet() 384
 RemoveTable() 385
 RemoveUserTemporarySyncPreferences() 386
 Rename() 388
 RenameCategory() 390
 RepeatDay 518
 RepeatEndDate 518
 RepeatFrequency 519
 RepeatType 519
 ResetAllModifiedFlags() 391
 ResetComm() 392
 ResetDirtyFlags() 393
 RestartHotSyncMgr() 394
 RestoreSecurityData() 395
 revision history
 COM Sync Suite APIs 591
 RomDbCount 520
 RomSize 520
 RomSoftwareVersion 521
 RowCount 521
 RowID 521

S

S_OK 590
 Save() 396
 schema databases
 Sync Manager
 COM API 96
 security
 secure databases
 creating 136
 Seek() 397
 SetBackupConduit() 399
 SetCategoryMembership() 400
 SetColumnCustomProperty() 401
 SetCommStatus() 402
 SetDWORDData() 403
 SetExceptionDates() 405
 SetIntegerValue() 406
 SetPath() 407
 SetStringData() 408
 SetStringValue() 410

SetUserDirectory() 411
SetUserName() 412
SetUserPermanentSyncPreferences() 413
SetUserTemporarySyncPreferences() 415
Size 522
SlotLibRefNumber 522
SlotReferenceNumber 522
SortInfoSize 523
StartHotSyncMgr() 417
StartTime 523
State 524
StringToCreatorID() 418
StringToRecordId() 419
SwapDWORD() 420
SwapWORD() 421
Sync Manager
 COM API
 any database type 102
 classic databases 66
 extended databases 13
 schema databases 96
SyncMgrAPIVersion() 422
SyncType 524

T

TableCount 525
TableName 525
Tell() 423
TerminateHotSyncMgr() 424
Title 525
To Do List
 database adapter object 77
 record object 75
TotalBytes 526
TotalCapacity 526

Type 527

U

UniqueId 528
UnregisterConduit() 425
UnregisterIC() 426
UnregisterNotifier() 428
UsedSpace 528
user data store
 COM API 82
UserId 529
UserName 529

V

Value 530
ValueByID 530
Version 531
ViewerId 531
volume attributes 576

W

WeekIndexForMonthlyRepeatByDay 532
WORDToByteArray() 429
WritableExceptionInReadOnlyRows 532
Write() 430, 432
WriteAppInfoBlock() 434
WriteAppPreference() 435
WriteColumnValue() 436
WriteColumnValues() 437
WriteResource() 438
WriteSortInfoBlock() 439

Z

ZipCode 532

