

Open Text® Document Management, eDOCS Edition™

eDOCS DM API Reference Guide



Open Text Document Management, eDOCS Edition eDOCS DM API Reference Guide

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Open Text Corporation

275 Frank Tompa Drive, Waterloo, Ontario, Canada, N2L 0A1

Tel: +1-519-888-7111

Toll Free Canada/USA: 1-800-499-6544 International: +800-4996-5440

Fax: +1-519-888-0677

E-mail: support@opentext.com FTP: ftp://ftp.opentext.com

For more information, visit: http://www.opentext.com

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Preface



About This Guide

This guide describes the application programming interface (API) that is available as part of DM. It identifies each of the objects comprising the API and discusses the methods and properties that each object supports.

Who Should Read This Guide

Users who extend DM functionality by creating their own custom enhancements will use the *DM API Reference Guide* to show them how their extensions can operate seamlessly with the base product. This will also be the case for software developers who create their own software products for specialized applications that address unique user needs that are not addressed by DM.

How This Guide Is Organized

This book has four chapters.

 Chapter 1: The DM Architecture—This chapter describes how the API and other components of DM work together.

- Chapter 2: An Overview of the DM API—This chapter describes the overall structure of DM.
- Chapter 3: DM API Objects —This chapter describes the objects in the API and lists the methods and properties that each supports.
- Chapter 4: DM API Methods and Properties —This chapter describes each of the methods and properties that are supported by DM API objects.
- Chapter 5: DM API Tokens This chapter describes each of the tokens that are supported by DM API methods.

Documentation Conventions

This book uses the following fonts and styles to indicate different types of information.

Convention	Meaning	
Italic	Indicates a new term or variable in a command line. For example, replace <i>filename</i> with the name of a file.	
Monospaced font	Indicates a file, directory, drive or command name, program code, or other text that appears on the computer screen. For example, the default library for DM is usually c:\Program Files\Open Text\DM Server.	
Bold	In instruction steps, indicates information you must type. In text, indicates emphasis.	
>	Separates items on more than one cascading menu or successive choices of icons or program groups.	
Cross-reference	Click on these links to be taken to related information in the document.	

Related Documentation

In addition to this manual, you may find the following documents helpful.

- *DM/RM Data Dictionary* Describes the tables and columns that comprise the DM/RM SQL database.
- *DM Designer Guide* Provides detailed instructions on how you can use the Designer component of DM to create and maintain forms used by your DM installation. It also describes how you can use Designer to customize the tables and columns that comprise the SQL database that DM uses to manage your eDOCS DM environment.

Chapter



1

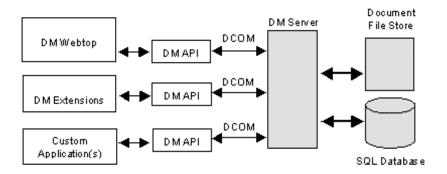
The DM Architecture

In This Chapter

This chapter provides an overview of the DM functionality, illustrating how the major components of DM are designed to work with one another. Code samples illustrate how custom applications can perform many basic operations, such as allowing user access and performing searches.

The DM Multi-Tier Architecture

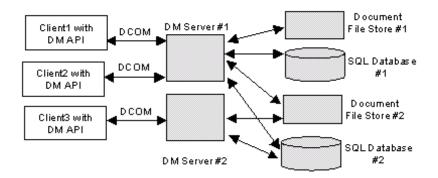
DM is an application that runs on Windows systems. As shown in the illustration below, the DM API provides a basic set of operations that interface with the DM Server. Client applications—whether the DM Webtop, any of the DM Extensions, or custom software you might develop—extend the DM API by providing a user interface and any other functionality appropriate to the new application.



DM Functionality

The diagram below illustrates how multiple clients can connect to a single DM Server and how a DM Server can connect to multiple DM repositories. A DM repository is comprised of the Document File Store, the SQL database, and the full-text indexer.

The DM Server is a transaction server, similar to Microsoft SQL Server. The DM Server manages database connections via a connection pool. A client application connects to the DM Server via DCOM (Distributed Component Object Model) interfaces that are typically free threaded. The DM executable file (DOCSFusion.EXE) loads COM objects configured in the registry. Once connected, users can connect to any repositories to which they have access rights..



DM is stateless, so the client does not remain connected to the DM Server. A client application submits a transaction using a document security token (DST), and DM then determines the validity of the DST. If the DST is valid, the DM Server processes the transaction and returns the results to the client software. No state information is kept by the DM Server about the client.

Note: DM enforces document security rights. Users cannot access objects (for example, documents or folders) to which they do not have rights.

In DM, library maintenance tasks such as archiving and full-text indexing occur in the background, and there is no native user interface (UI). (To simplify these diagrams, DM Indexer Servers are not shown.) Developers must create user interfaces to connect to the DM Server.

Document Security Tokens

A document security token (DST) is initially constructed by DM when a user logs on via a client application to the server and is required for DM transactions. The DST can be used across multiple DM Servers—when the user logs on to other DM Servers to access other Document libraries, the server information is appended to the DST—or the client application can use multiple DSTs.

Transactions

With DM, multiple libraries can be configured for each server to manage, and transactions can occur on these specified libraries. The libraries available to a DM Server are configured via the DM Server Manager program and the PCDOCS.INI file. The client application must handle multiple library access and take into account issues such as that of incompatible forms.

Caution: You have direct access to the SQL database, allowing yo to implement many operations directly by use of the computer language you use for your application. For example, specialized terms you implement can be managed by accessing the TERMINOLOGY table in the SQL database.

It is recommended that you do not use this capability. Using the appropriate DM API objects and methods will insure that the correct security controls are enforced and that other internal database relationships are maintained.

DM Object Model

DM provides the following document management services:

- Search for documents stored in DM file stores.
- Create, delete, and update document profiles.
- Modify security on profiles and folders.
- Upload files to and download files from DM file stores.

DM Objects

DM objects are low-level and general objects that presuppose a knowledge of how the DM environment operates (for example, how security rights are enforced). It is also important for DM API users to have a thorough understanding of both client and server software, as well as how they interact.

The DM Object Model consists of Distributed Component Object Model (DCOM) objects that are exposed via DM. Operations on DM objects map to operations on tables and typically require several properties to be set to define the objects. The object properties after instantiation may differ depending on how the object was created.

When building a DM client application, you will use the PCDClient type library (pcdclient.dll) and development tools such as C++, Visual Basic, Java, or Active Server Pages.

Note: Examples in this document show sample code written in Visual Basic. Similarly, this document refers to API items using Visual Basic nomenclature in preference to terminology more common to C++, Java, or other programming language environments. For example, the term "object" is generally used in preference to "class" or "interface." Also, "method" is used in place of "function," and "property" is used in place of "attribute."

DM Forms

DM forms include those used as profile forms, query-byexample and other search forms, results lists, and lookups. These forms are fully customizable using DM Designer. Using DM Designer, you can also create your own forms.

With DM, forms are an abstraction layer for the SQL database that allows your applications to access the library database. DM supports Search, Query, Lookup, and Profile forms. DM uses a form definition to mediate client requests for data and read/write access to the database. The form definition maps the name of a field in the form to a SQL column in the database. Most client application calls are done using the name of the field as shown on the form, rather than the name of the column in the SQL database. DM uses the SQL_INFO call, which is embedded in the form definition that resides in the SQL database. Each form must specify a primary table in the database as part of its form definition.

Types of DM Objects

The DM API defines several types of objects:

- Support (read only), which facilitates the log on process.
- Query (read only), which is used for search, Quick Retrieve, and lookups.
- PCDDocObject (read/write), which implements the DM objects and modifies tables in the library database.
- Child objects of PCDDocObject (read/write), which get or set trustees, and perform file uploads and downloads.

Defining a DM Object

In general, to define a DM object, you need to do the following:

1. Create the object in one of the following ways:

Early bind:

```
Dim search as PCDSearch
```

· Late bind:

```
Dim search as Object
Set search = _
    CreateObject("PCDClient.PCDSearch")
```

- 2. Set the DST using the SetDST method.
- 3. Specify a library for the object.
- 4. Specify the object type (the name of a form).
- 5. Set properties to identify the specific object.
- 6. Perform a method.

DM Support Objects

The DM support objects provide a number of functions for the DM Server:

- Provide information required for the DM Server log on process.
- Log on to the DM Server.
- Return a document security token (DST) for later transactions.

 Provide additional general objects that do not require a DST.

The following are DM support objects:

- PCDError
- PCDGetLoginLibs
- PCDLogin
- PCDNetAliasList

DM Query Objects

Query objects are used to search the library database. The query is constructed in memory, executed, and the results returned to the client application. The following are DM query objects:

- PCDLookup
- PCDRecentDoc
- PCDSearch

Document Objects

Document objects are document management system (DMS) objects that represent database entities that can be modified. These entities include profiles, projects, and Quick Searches. The object identifier is:

PCDDocObject

Child Objects of PCDDocObject Objects

The following are child objects of PCDDocObject objects:

- PCDGetDoc
- PCDGetStream
- PCDPutDoc
- PCDPutStream
- PCDPropertyList
- PCDTrusteeList

The Logon Process

The following subsections describe the client logon process for DM.

Getting a List of Available Libraries

The following example displays a list of libraries managed by the DM Server that the user can log on to.

```
Private Declare Function GetUserName Lib \_
  "advapi32.dll" Alias "GetUserNameA"
  (ByVal lpbuffer As String, nSize As Long) _
 As Long
Public OK As Boolean
Private Sub Form_Load()
  Dim sBuffer As String
  Dim 1Size As Long
  Dim libname As String
 Dim i As Long
  Dim lim As Long
  Dim opOK As Boolean
  Dim Libs As New PCDGetLoginLibs
  'Initialize public variables.
  OK = False
  dst = ""
  user = ""
  library = ""
group = ""
  Get the user we are currently logged on as.
  sBuffer = Space (255)
  1Size = Len(sBuffer)
  Call GetUserName(sBuffer, lSize)
  If 1Size > 0 Then
    txtUserName.Text = Left$(sBuffer, lSize)
    txtUserName.Text = vbNullString
  End If
  'Get the list of available libraries
  'and fill in combo box.
  Libs.Execute
  lim = Libs.GetSize() - 1
  opOK = Libs.ErrNumber = 0
  LibCombo.Text = ""
  For i = 0 To \lim
    If (opOK) Then
      libname = Libs.GetAt(i)
      opOK = opOK And Libs.ErrNumber = 0
      If i = 0 Then LibCombo.Text = libname
```

```
LibCombo.AddItem libname
End If
Next
'List of Network logon types.
NetworkType.AddItem "Network Bindery"
NetworkType.AddItem "Network NDS"
NetworkType.AddItem "Microsoft Network"
NetworkType.Text = ""

End Sub

Private Sub cmdCancel_Click()
OK = False
Me.Hide
End Sub
```

Providing Library Access

The next subroutine creates the PCDLogin object. It appends a network alias to a document security token (DST). The following algorithm is used:

- 1. Create the PCDLogin object.
- 2. Call the AddLogin method, which provides the logon mode, logon location, user name, and password.
- 3. Call the Execute method.
- 4. Call the GetDST method.

Note: If there is no network alias, the user name and Attaché password are used. Also, a second logon may be needed when file access occurs, such as when the user logs on to the DM Server or when a valid user account on a particular DM Server is required. A second logon may also be required if a network alias to a DM Server is not set in Library maintenance.

The following example illustrates how you can provide Library logon support for your users:

```
Private Sub cmdOK_Click()
  Dim login As New PCDLogin
  Dim fl As Object
  Dim i As Long
  Dim lim As Long
  Dim LoginType As Integer
  Dim emsg As String

If (NetworkType = "Network Bindery") Then
   LoginType = 1
  ElseIf (NetworkType = "Network NDS") Then
   LoginType = 2
  ElseIf (NetworkType = "Microsoft Network") Then
   LoginType = 8
  Else
  LoginType = 0
```

```
End If
```

```
If (Domain.Text <> "" And LoginType <> 0) Then
   The Network and Domain are specified, so
  'log on to the network.
  login.AddLogin LoginType, Domain.Text, _
    txtUserName.Text, txtPassword.Text
  'Just log on as a Library user.
  login.AddLogin 0, library,
    txtUserName.Text, txtPassword.Text
Fnd Tf
OK = (login.ErrNumber = 0)
If (OK) Then
  login.Execute
  OK = (login.ErrNumber = 0)
Fnd Tf
If OK Then
  'Set the public variables others will
  'need and then hide.
  library = login.GetLoginLibrary()
user = login.GetDOCSUserName()
  group = login.GetPrimaryGroup()
  dst = login.GetDST
  Me.Hide
Else
  'Unable to log on.
  emsq = "Error logging on: " &
    login.ErrNumber & String(1, 13) &
  String(1, 10) & login.ErrDescription
MsgBox emsg, , "Logon"
  txtPassword.SetFocus
  txtPassword.SelStart = 0
  txtPassword.SelLength = Len(txtPassword.Text)
End If
'Dump any available information for
'debugging purposes.
Set fl = .
  CreateObject("PCDClient.PCDNetAliasList")
Set fl = login.GetFailedLoginList
lim = fl.GetSize() - 1
  For i = 0 To lim

Debug.Print "FAILED List: "; _
fl.UnitName(i) & ";" & fl.UnitType(i) _
    & ";" & fl.UserName(i)
Next
Set fl = Nothing
Set fl = login.GetAliasList
\lim = fl.GetSize() - 1
For i = 0 To \lim_{n \to \infty} \frac{1}{n}
  Debug.Print "Alias List: ";
    fl.UnitName(i) & ";" & fl.UnitType(i) _
    & ";" & fl. UserName(i)
Next
```

```
Set fl = Nothing
Debug.Print "User: "; login.GetDOCSUserName() _
    & " Primary Group: " & _
    login.GetPrimaryGroup() & " LoginLib: " _
    & login.GetLoginLibrary()
```

DM Search Transactions

A typical search session involves the following:

- 1. A user enters search criteria in a user interface from which search data is extracted. Most commonly, the user interface is a form.
- 2. A search request is sent from the client.
- 3. The DM Server does the following:
 - Captures search criteria, and immediately returns a "no results" message to the client.
 - Performs the search on requested databases and full-text repositories.
 - Collects the results set and sorts it as user specified.
 - Caches the results of the search and returns them to the client when requested.

The cached results can be deleted by the client using the ReleaseResults method. Also, results may time out based on administration settings.

The following sections describe various ways to execute search transactions in a DM environment.

General Steps to Performing a Search

The following are the general steps in performing a search in the DM environment:

- 1. Create the search object.
- 2. Set the DST.
- 3. Add a search library (or multiple libraries).
- 4. Set the search object to the name of the search form.

- 5. Add return properties. Properties refer to the field names in the form. You need to specify the fields to return in the results set. Alternately, you can set an entire collection of properties using SetReturnProperties.
- 6. Add search criteria, specifying a field name in the form and its value.
- 7. Add a property by which the return properties are to be ordered.
- 8. Set the maximum number of rows to return in the results set.
- 9. Optionally, set a chunk factor, which is the number of rows to return from the server results set into the local cache in one operation. The default is 10. You do not need to repeat the execution of the search to get the next chunk. DM automatically does that for you.

10. Execute the search.

For the search results returned, you can:

- Obtain the number of rows found.
- Get all the returned properties.
- Iterate through the rows.
- Get values for properties returned by the search.
- Release the results set to free server memory.

Retrieving Recently Edited Documents

The following example shows how to retrieve a list of documents that the user has recently edited.

```
.
.
.
Private Sub cmdCancel_Click()
   Unload Me
End Sub

Private Sub Form_Load()
   Dim rec As New PCDRecentDoc
   Dim i As Long
   Dim lim As Long
   Dim row As String

Screen.MousePointer = vbHourglass
   rec.SetDST DST
   rec.AddSearchLib library
```

```
'This example uses the CYD DEFPROF search form.
rec.SetSearchObject "CYD_DEFPROF"
rec.AddSearchCriteria "TYPIST_ID", Chr(34) _
  & user & Chr(34)
rec.AddReturnProperty "DOCNUM"
rec.AddReturnProperty "SYSTEM_ID"
rec.AddReturnProperty "APP_ID"
rec.AddReturnProperty "LASTEDITDATE"
rec.AddReturnProperty "DOCNAME" rec.AddReturnProperty "TYPIST_ID" rec.AddReturnProperty "STATUS"
rec.AddOrderByProperty "LAST_EDIT_DATE", 0
rec.Execute
If (rec.ErrNumber <> 0) Then
  MsgBox "RecentEdit Failure on Execute: " & _
       rec.ErrNumber & " " & _
rec.ErrDescription, , "Recent Edit"
Else
  lim = rec.GetRowsFound
  If \lim > 50 Then \lim = 50
     row = "DOCNAME" & Chr(9) &
          "DOCNUM" & Chr(9) & "SYSTEM_ID" _
& Chr(9) & "APP_ID" & Chr(9) _
          & "LAST_EDIT_DATE" & Chr(9)
          & "TYPIST_ID" & Chr(9) & "STATUS"
     reGrid.Cols = 8
     reGrid.AddItem row
     i = 1
     While i <= lim
       rec.NextRow
       If (rec.ErrNumber <> 0) Then
          MsqBox "RecentEdit Failure on "
              & "NextRow: " & rec.ErrNumber _
& " " & rec.ErrDescription, , _
               "Recent Edit'
       Else
          row = rec.GetPropertyValue("DOCNAME") _
               & Chr(9)
          row = row \& \_
                          rec.GetPropertyValue( _
                 "DOCNUM") & Chr(9)
          row = row &
               rec.GetPropertyValue("SYSTEM_ID") _
               & Chr(9)
          row = row &
               rec.GetPropertyValue("APP_ID") _
               & Chr(9)
          row = row &
              rec.GetPropertyValue("LASTEDITDATE") _
               & Chr(9)
          row = row &
               rec.GetPropertyValue("TYPIST_ID") _
               & Chr(9)
          row = row &
               rec.GetPropertyValue("STATUS")
          reGrid.AddItem row
       End If
```

```
i = i + 1
      Wend
    rec.ReleaseResults
  End If
  Screen.MousePointer = vbDefault
End Sub
Private Sub Form_Resize()
  Dim i As Long
  Dim cw As Long
  reGrid.width = width - 100
  cw = reGrid.Width / reGrid.Cols
For i = 0 To reGrid.Cols - 1
    reGrid.ColWidth(i) = cw
  Next
End Sub
Private Sub reGrid_Click()
  If reGrid.row <= 0 Then</pre>
    MsgBox "Select valid row"
    Exit Sub
  End If
  reGrid.row = reGrid.RowSel
  reGrid.Col = 1
  txtSelDocNumber = reGrid.Text
  docnumber = reGrid.Text
End Sub
Private Sub reGrid_DblClick()
  Dim c
  Dim dn As Variant
  c = reGrid.Col
  reGrid.Col = 1
  dn = reGrid.Text
  If IsNumeric(dn) Then
    'Extract routine in frmversions form_load
    'versions (dn)
  End If
End Sub
```

Performing a Simple Search

The following example demonstrates how to do a simple search.

```
.
.
Private Sub cmdCancel_Click()
Me.Hide
End Sub
Private Sub cmdDoLookup_Click()
cboDocType.Clear
Call LookupDocType(cboDocType)
```

```
End Sub
```

```
Private Sub cmdSearch_Click()
  Dim rec As New PCDSearch
  Dim i As Long
  Dim count As Long
  Dim row As String
  Screen.MousePointer = vbHourglass
  rec.SetDST DST
  rec.AddSearchLib library
  'This example uses the CYD_DEFPROF form.
  rec.SetSearchObject "CYD_DEFPROF"
If txtAuthor <> "" Then
     rec.AddSearchCriteria "AUTHOR_ID", _
          Chr(34) & txtAuthor & Chr(34)
  End If
  If txtApp <> "" Then
     rec.AddSearchCriteria "APP_ID", Chr(34) _
          & txtApp & Chr(34)
  End If
  If cboDocType <> "" Then
     rec.AddSearchCriteria "TYPE_ID", Chr(34) _
         & cboDocType & Chr(34)
  End If
  rec.AddReturnProperty "DOCNUM"
rec.AddReturnProperty "APP_ID"
rec.AddReturnProperty "SYSTEM_ID"
rec.AddReturnProperty "TYPE_ID"
rec.AddReturnProperty "LASTEDITDATE"
rec.AddReturnProperty "DOCNAME"
rec.AddReturnProperty "AUTHOR_ID"
rec.AddReturnProperty "STATUS"
  'NOTE: This search should return data sorted
  'by last edit then by document number.
  rec.AddOrderByProperty "LAST_EDIT_DATE", 0 rec.AddOrderByProperty "DOCNUM", 1
  rec.Execute
  If (rec.ErrNumber <> 0) Then
    MsgBox "Search Failure on Execute: " & _
   rec.ErrNumber & " " & rec.ErrDescription, _
             "Search"
  Else
     count = rec.GetRowsFound
     txtCount = Str(count)
    & _ "LAST_EDIT_DATE" & Chr(9)
          & "AUTHOR_ID" & Chr(9) & "STATUS"
     reGrid.Clear
     reGrid.Cols = 8
     reGrid.rows = 0
     reGrid.AddItem row
```

```
i = 1
    While i <= count
      rec.NextRow
      If (rec.ErrNumber <> 0) Then
        MsgBox "Search Failure on NextRow: " _
& rec.ErrNumber & " " & _
        rec.ErrDescription, , "Search"
      Flse
        row = rec.GetPropertyValue("DOCNAME") _
            & Chr(9)
        row = row \& _
            rec.GetPropertyValue("DOCNUM")
            & Chr(9)
        row = row \&
            rec.GetPropertyValue("SYSTEM_ID") _
            & Chr(9)
        row = row \& _
            rec.GetPropertyValue("APP_ID") _
            & Chr(9)
        row = row \&
            rec.GetPropertyValue("TYPE_ID") _
            & Chr(9)
        row = row \&
            rec.GetPropertyValue("LASTEDITDATE") _
            & Chr(9)
        row = row \& _
            rec.GetPropertyValue("AUTHOR_ID") _
            & Chr(9)
        row = row \& _
            rec.GetPropertyValue("STATUS")
        reGrid.AddItem row
      End If
      i = i + 1
    wend
    rec.ReleaseResults
  Fnd Tf
  Screen.MousePointer = vbDefault
End Sub
Private Sub cmdShowLookup_Click()
  frmLookup.Show vbModal
End Sub
Private Sub Form_Resize()
  Dim i As Long
  Dim cw As Long
  reGrid.Cols = 8
  cw = reGrid.Width / reGrid.Cols
  For i = 0 To reGrid.Cols - 1
    reGrid.ColWidth(i) = cw
 Next
End Sub
Private Sub reGrid_Click()
  If reGrid.row <= 0 Then</pre>
    MsgBox "Select valid row"
    Exit Sub
  End If
```

```
reGrid.row = reGrid.RowSel
reGrid.Col = 1
txtSelDocNumber = reGrid.Text
docnumber = reGrid.Text
```

Document Objects

The steps for working with the PCDDocObject object and other DM API objects are as follows:

- 1. Set the DST.
- 2. Set the object type property to the name of the form.
- 3. Set the library as a property of the object.
- 4. Set the object properties, each of which requires a name/ value pair.
- 5. Once all the relevant properties have been set, create the object.

There are also methods for fetching information on the properties of an object as well as deletion and update methods.

Fetching a DM Document Object

The following example fetches a DM document object.

```
Attribute VB_Name = "frmFetchDoc"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB PredeclaredId = True
Attribute VB_Exposed = False
Option Explicit
Dim ret As Boolean
Dim i As Long
Dim FileName As String
Dim FetchFlag As Boolean
Private Sub cmdCheckIn_Click()
  Dim doc As New PCDDocObject
  If docnumber = "" Or versionid = "" Then
    MsgBox "Check In requires that you set "
& "the document number and " _
        & "the version ID."
    Exit Sub
  End If
  doc.SetDST DST
```

```
doc.SetObjectType "cyd_defprof"
doc.SetProperty "%TARGET_LIBRARY", library
doc.SetProperty "%OBJECT_IDENTIFIER", docnumber
doc.SetProperty "%VERSION_ID", versionid
doc.SetProperty "%STATUS", "%UNLOCK"
  doc.Update
  'Check for error.
  Dim lngENum As Long
  lngENum = doc.ErrNumber
  if lngENum <> 0 Then
    Dim strEDesc As String, strENum As String
     strEDesc = doc.ErrDescription
    strENum = CStr( lngENum )
MsgBox "Error " & strENum & ": " & strEDesc
     'Handle the error...
  End If
  Set doc = Nothing
  Set doc = New PCDDocObject
  doc.SetDST DST
  doc.SetObjectType "cyd_defprof"
  doc.SetProperty "%TARGET_LIBRARY", library doc.SetProperty "%OBJECT_IDENTIFIER", docnumber
  doc.Fetch
  'Check for error.
  Dim lngENum As Long
  lngENum = doc.ErrNumber
  if lngENum <> 0 Then
    Dim strEDesc As String, strENum As String
     strEDesc = doc.ErrDescription
    strENum = CStr( lngENum )
MsgBox "Error " & strENum & ": " & strEDesc
     'Handle the error...
  Fnd Tf
  txtStatus = doc.GetReturnProperty("STATUS")
  Set doc = Nothing
  If txtStatus = 0 Then
    cmdCheckOut.Enabled = True
     cmdCheckIn.Enabled = False
  Flse
    cmdCheckOut.Enabled = False
     cmdCheckIn.Enabled = True
  Fnd Tf
  MsgBox "Status field in profile updated" _
       & "to 0 (checked in).'
End Sub
Private Sub FetchButton_Click()
  Dim rec As New PCDGetDoc
  Dim i As Long
  Dim lim As Long
  Dim opOK As Boolean
  Dim row As String
```

```
Dim qd As Object
Dim indata As Variant
Dim bdata() As Byte
If docnumber = "" Or versionid = "" Then
  MsgBox "Must specify the document number "
      & "and the version ID."
  Exit Sub
End If
FetchFlag = False
FileName = "'
rec.SetDST DST
rec.AddSearchCriteria "%TARGET_LIBRARY", _
    library
rec.AddSearchCriteria "%DOCUMENT_NUMBER", _
    docnumber
rec.AddSearchCriteria "%VERSION_ID", versionid
rec.Execute
If (rec.ErrNumber <> 0) Then
  MsgBox "Fetch Doc Failure on Execute: " &
      rec.ErrNumber & " " & rec.ErrDescription, _
      , "Fetch Doc"
Flse
  lim = rec.GetRowsFound
  i = 1
  While i <= lim
    rec.NextRow
    If (rec.ErrNumber <> 0) Then
      i = \lim + 1
      MsgBox "Fetch Doc Failure on Execute: " _
          & rec.ErrNumber & " " &
           rec.ErrDescription, , "Fetch Doc"
    End If
    If (i = 1) Then
      Set gd = rec.GetPropertyValue("%CONTENT")
      On Error GoTo saveFailed
      FileName = "c:\temp\" & _
Trim(docnumber) & "_" & _
Trim(versionid) & ".doc"
      Open FileName For Binary Access Write _
           As #1
      bdata() = ""
bdata() = gd.Read(1024)
      While (gd.BytesRead > 0)
        Put #1, , bdata()
bdata() = ""
         bdata() = qd.Read(1024)
      Wend
      Close #1
      GoTo saveDone
      saveFailed:
        MsgBox "Fetch Doc Failure File Open: " _
& "Fetch Doc"
```

```
savecancelled:
On Error Resume Next
saveDone:
End If
i = i + 1
Wend
End If
FetchFlag = True
MsgBox "Exported document content to " _
& "designated file: " & FileName

End Sub
.
.
```

Getting and Updating Trustee Information

The following example updates the trustees for a profiled document object.

```
Attribute VB_Name = "frmTrustees"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB PredeclaredId = True
Attribute VB_Exposed = False
Option Explicit
Dim bRet As Boolean
Dim Status As String
Dim DocName As String
Dim DefaultRights As Long
Dim EffectiveRights As Long
Dim AccessControl As Boolean
Dim i As Integer
Dim UserOrGroup As String
Dim PDoc As Object
Dim TrusteeList As PCDTrusteeList
Private Function .
  GetTrusteesforProfile(docnumber As String) _
      As Boolean
  Dim docsfound As Long
  On Error GoTo ErrorHandler
  GetTrusteesforProfile = False
  If Val(docnumber) <= 0 Then Exit Function</pre>
    Dim pclient As PCDSearch
    Set pclient =
        CreateObject("PCDClient.PCDSearch")
    pclient.SetDST DST
    pclient.AddSearchLib library
```

```
'This example uses the "def abe" form.
pclient.SetSearchObject "def_qbe'
'Set the properties to be returned. These
'are the properties to be displayed in the
'search results page.
pclient.AddReturnProperty("DOCNAME")
pclient.AddReturnProperty("DOCNAME")
pclient.AddReturnProperty("DOCNUM")
pclient.AddReturnProperty("AUTHOR_ID")
pclient.AddReturnProperty("STATUS")
pclient.AddReturnProperty("VERSION")
pclient.AddReturnProperty("SECURITY")
pclient.AddReturnProperty("VERSION_ID")
pclient.AddOrderByProperty "VERSION_ID", True
pclient.AddSearchCriteria "DOCNUM", docnumber
pclient.Execute
'Check for error.
Dim lngENum As Long
lngENum = pclient.ErrNumber
If IngENum <> 0 Then
   Dim strEDesc As String, strENum As String
   strEDesc = pclient.ErrDescription
   streNum = CStr( lngeNum )
MsgBox "Error " & streNum & ": " & streDesc
   'Handle the error...
Fnd Tf
docsfound = pclient.GetRowsFound
txtDocsFound = Str(docsfound)
If docsfound = 0 Then
   Set pclient = Nothing
   Exit Function
End If
pclient.NextRow
DefaultRights = _
     pclient.GetPropertyValue("SECURITY")
DocName = pclient.GetPropertyValue("DOCNAME")
txtDefaultRights = Str(DefaultRights)
pclient.ReleaseResults
Set PDoc =
     CreateObject("PCDClient.PCDDocObject")
PDoc.SetDST DST
PDoc.SetProperty "%TARGET LIBRARY". library
PDoc.SetObjectType("DEF_PROF")
PDoc.SetProperty "%OBJECT_IDENTIFIER", _
      docnumber
PDoc.Fetch
'Check for error.
Dim lngENum As Long
lngENum = PDoc.ErrNumber
if lngENum <> 0 Then
   Dim strEDesc As String, strENum As String
   strEDesc = PDoc.ErrDescription
strENum = CStr( lngENum )
```

```
MsgBox "Error " & strENum & ": " & strEDesc
      'Handle the error...
    Fnd Tf
    EffectiveRights = 1
        PDoc.GetPropertyValue("%EFFECTIVE_RIGHTS")
    AccessControl =
        PDoc.HasRight("%PR_ACCESS_CONTROL", _
        EffectiveRights)
    txtEffectiveRights = Str(EffectiveRights)
    txtAccessControl = Str(AccessControl)
    'Only display trustees if security is set.
    If DefaultRights Then
      Call DisplayTrustees(PDoc,
      TreeTrustees, AccessControl)
If AccessControl Then
        cmdAddTrustee.Enabled = True
        cmdRemoveTrustee.Enabled = True
      Fnd Tf
    Flse
      MsqBox "No security set for this profile."
    End If
    Set PDoc = Nothing
    Set pclient = Nothing
    GetTrusteesforProfile = True
    Exit Function
  Fnd Tf
  ErrorHandler:
 MsgBox "Unhandled Error: " & _
      Str(Err.Number) & " was generated by "
      & Err. Source & Chr(13) & Err. Description
End Function
Private Sub cmdAddTrustee_Click()
  'Two ways to do this:
  '1) Set trustee on profile object and
      update trustees.
  Set PDoc =
      CreateObject("PCDClient.PCDDocObject")
  PDoc.SetDST DST
  PDoc.SetProperty "%TARGET_LIBRARY", library
  PDoc.SetObjectType("DEF_PROF")
PDoc.SetProperty "%OBJECT_IDENTIFIER", docnumber
  PDoc.FetchTrustees
  'Set flags to 1 for group and 2 for user, but
  '0 may work.
  PDoc.SetTrustee cboTrustees.Text, 2, _
      Val(txtRights)
  'Check for error.
  Dim lngENum As Long
  lngENum = PDoc.ErrNumber
  If lngENum <> 0 Then
```

```
Dim strEDesc As String, strENum As String
  strEDesc = PDoc.ErrDescription
  strENum = CStr( lngENum )
MsgBox "Error " & strENum & ": " & strEDesc
  'Handle the error...
Fnd Tf
PDoc.UpdateTrustees
'Check for error.
Dim lngENum As Long
lngENum = PDoc.ErrNumber
If lngENum <> 0 Then
  Dim strEDesc As String, strENum As String
  strEDesc = PDoc.ErrDescription
  streNum = CStr( lngENum )
MsgBox "Error " & strENum & ": " & strEDesc
  'Handle the error...
End If
PDoc.Update
'Check for error.
Dim lnaENum As Lona
lngENum = PDoc.ErrNumber
If lngENum <> 0 Then
  Dim strEDesc As String, strENum As String
  strEDesc = PDoc.ErrDescription
  streNum = CStr( lngENum )
MsgBox "Error " & strENum & ": " & strEDesc
  'Handle the error...
Fnd Tf
Set PDoc = Nothing
MsqBox "Trustee " & cboTrustees.Text & _
    " has been added."
Exit Sub
'2) Add trustee to the trustees collection
    and update trustees.
PDoc.FetchTrustees
TrusteeList.AddTrustee cboTrustees.Text, _
    Val(txtRights)
PDoc.SetTrustees TrusteeList
PDoc.UpdateTrustees
'Check for error.
Dim lnaENum As Lona
lngENum = PDoc.ErrNumber
If lngENum <> 0 Then
  Dim strEDesc As String, strENum As String
  strEDesc = PDoc.ErrDescription
  streNum = CStr( lngENum )
MsgBox "Error " & strENum & ": " & strEDesc
  'Handle the error...
Fnd Tf
PDoc.Update
'Check for error.
Dim lnaENum As Lona
```

```
lngENum = PDoc.ErrNumber
If lngENum <> 0 Then
   Dim streDesc As String, streNum As String
   streDesc = PDoc.ErrDescription
   streNum = Cstr( lngENum )
   MsgBox "Error " & streNum & ": " & streDesc
   'Handle the error...
End If
End Sub
.
.
```

Chapter



2

An Overview of the DM API

In This Chapter

This chapter describes the overall structure of the DM API, including an itemized list that shows the methods and properties that each object supports. It also presents information that applies across the entire API.

The PCDClient Object

Your custom applications interact with the DM Server through a number of objects that are collectively referred to as the PCDClient. To use the PCDClient objects, you should have some understanding of the Distributed Component Object Model (DCOM).

List of DM API Objects

The following is a list of the DM client objects that comprise the DM API.

PCDDocObject

PCDEnumPropertyLists

PCDError

PCDGetDoc

PCDGetForm

PCDGetLoginLibs

PCDGetStream

PCDLogin

PCDLookup

PCDNetAliasList

PCDNetworkInfo

PCDPropertyList

PCDPropertyLists

PCDPutDoc

PCDPutStream

PCDRecentDoc

PCDSearch

PCDSQL

PCDTrusteeList

Early and Late Binding

You can create objects in the DM API using either early binding or late binding. Examples shown in this document will sometimes use early binding, and other times will use late binding. In custom applications you implement, you can usually use either, but there are a few instances where the text will indicate that one should be used in preference to the other.

Early Binding

With early binding you create an object in a single step when you first dimension it. This may be the most appropriate way to create an object if you are going to use it immediately.

Early binding uses the New keyword within the Dim statement when the object is first dimensioned. For example:

Dim pDoc As New PCDClient.PCDPutDoc

The New operator must be used on Visual Basic objects that have Private or PublicNotCreatable instancing properties.

Late Binding

With late binding you first dimension the item you want to create, often dimensioning it as a generic object. Later, when you are ready to use the object, you use the Set statement to instantiate the object in memory. For example:

```
Dim pObj As Object
...
Set pObj = CreateObject("PCDClient.PCDLookup")
```

If your application uses the Microsoft Transaction Server, you must create objects using late binding with the CreateObject method. The Transaction Server cannot see instances of externally created objects that you generate with the New operator.

Methods and Properties Supported by DM API Objects

Each of the DM API objects supports two or more methods or properties that perform the various tasks related to that object. The methods and properties that each DM API object supports are listed below.

Many PCDClient objects support methods and properties with the same name. For example, all PCDClient objects access the ErrNumber and ErrDescription properties.

To avoid repeating the information by discussing methods and properties with the objects they support, methods and properties are discussed separately. Chapter 3 presents DM API objects. Chapter 4 discusses the rich array of methods and properties available in the DM API.

PCDASPFileUpload

Execute
IsEmpty
OnEndPage
OnStartPage

PCDDocObject

Create Delete Fetch FetchTrustees GetProperties GetProperty GetReturnProperties GetReturnProperty GetTrustee GetTrustees GrantRight HasRight RevokeRight SetDST SetObjectType SetProperties SetProperty SetTrustee SetTrustees Update UpdateTrustees

PCDEnumPropertyLists

Clone Next Reset Skip

PCDError

ErrDescription
ErrNumber

PCDGetDoc

AddSearchCriteria
Execute
GetPropertyValue
GetReturnProperties
GetRowsFound
GetSearchCriteria
NextRow
SetDST
SetRow

SetSearchCriteria

SetSearchObject PCDGetForm

AddSearchLib
Execute
GetPropertyValue
SetDST
SetObjectType

PCDGetLoginLibs

Execute GetAt GetSize

PCDGetStream

BytesRead
GetPropertyValue
Read
Seek
SetComplete

PCDLogin

AddLogin
Execute
GetAliasList
GetDOCSUserName
GetDST
GetFailedLoginList
GetLoginLibrary
GetPrimaryGroup
SetDST

PCDLookup

AddOrderByProperty AddSearchCriteria AddSearchLib AddUserFilterCriteria ClearOrderByProperties ClearUserFilterCriteria ColumnCount Execute GetMetaPropertyValue **GetMetaRowsFound** GetPropertyValueByIndex GetRowsFound GetSearchCriteria NextMetaRow NextRow ReleaseResults SetChunkFactor SetDST SetLookupId SetMaxRows **SetMetaRow** SetRow SetSearchCriteria SetSearchObject SetTargetProperty

PCDNetAliasList

GetSize UnitName UnitType UserName

PCDNetworkInfo

GetDomainList GetGroupList

GetGroupMembers

GetRowCount

GetUserFullName

GetUserGroups

GetUserList

GetValue

IsMemberOf

NextRow

SetDST

PCDPropertyList

AddProperty

BeginIter

DeleteProperty

GetCurrentPropertyName

GetCurrentPropertyValue

GetPropertyIndex

GetPropertyValue

GetSize

NextProperty

PCDPropertyLists

BeginIter

Execute

GetCurrentPropertyName

GetCurrentPropertyValue

NewEnum

NextProperty

NextRow

SetChunkFactor

SetDST

SetObjectType

SetOptions

SetProperties

SetProperty

PCDPutDoc

AddSearchCriteria

Execute

GetPropertyValue

GetReturnProperties

GetRowsFound

GetSearchCriteria

NextRow

SetDST

SetRow

SetSearchCriteria

SetSearchObject

PCDPutStream

BytesWritten

GetPropertyValue

SetComplete

Write

PCDRecentDoc

AddOrderByProperty

AddReturnMetaProperty

AddReturnProperty

AddSearchCriteria

AddSearchLib

BeginGetBlock

ColumnCount

EndGetBlock

Execute

GetMetaPropertyValue

GetMetaRowsFound

GetPropertyValue

GetPropertyValueByIndex

GetReturnProperties

GetRowsFound

GetSearchCriteria

NextMetaRow

NextRow

ReleaseResults

SetChunkFactor

SetDST

SetMaxRows

SetMetaRow

SetReturnProperties

SetRow

SetSearchCriteria

SetSearchObject

PCDSearch

AddOrderByProperty

AddReturnMetaProperty

AddReturnProperty

AddSearchCriteria

AddSearchLib

BeginGetBlock

ColumnCount

EndGetBlock

Execute

GetMetaPropertyValue

GetMetaRowsFound

GetPropertyValue

GetPropertyValueByIndex

GetRowsFound

NextMetaRow

NextRow

ReleaseResults

SetChunkFactor

SetDST

SetMaxRows

SetMetaRow

SetReturnProperties

SetRow

SetSearchCriteria

SetSearchObject

PCDSQL

Execute

GetColumnCount

GetColumnName

GetColumnValue

GetDBVendor

GetNextKey

GetRowCount
GetRowsAffected
GetSQLErrorCode
NextRow
ReleaseResults
SetDST
SetLibrary
SetRow

PCDTrusteeList

AddTrustee
BeginIter
DeleteTrustee
GetCurrentTrusteeFlags
GetCurrentTrusteeName
GetCurrentTrusteeRights
GetSize
GetTrusteeIndex
GetTrusteeRights
NextTrustee
SetTrusteeRights

Tokens Supported by DM API Methods and Properties

Tokens are special identifiers that instruct the DM Server to perform specific actions. They are often used as a short-hand reference to an object that otherwise could only be described by a longer text string, such as a reference to a SQL table and column. For example, the %LOGIN_DATE token can substitute for as a reference for the PEOPLE.LAST_LOGIN_DATE column of the SQL database.

Token identifiers are easily recognized. When used in application code, each token must be enclosed within double quote marks and must always be written in UPPERCASE. Each token begins with a percent sign (%), a syntax requirement that identifies them as DM system variables rather than local variables defined by the API program.

When used in application code, DM tokens perform one of three functions:

- Tokens set values either in the SQL database or in other variables. For example, the %CHECKOUT_COMMENTS token can be used to identify a string that the program stores in the COMMENTS column of the CHECKOUT table.
- Tokens identify data items that API applications are to return when the application executes. For example, the %DATA token returns the data and metadata associated when an application program executes the PDCSQL operation.
- Tokens manipulate column values in SQL database tables.
 For example, the %CONTENTS_MOVE_TO_TOP adjusts
 the items in a DM Folder so that the specified object is
 shown at the top of the presentation list and the other items
 in the folder are adjusted to lower positions in the list if
 necessary.

Chapter 5, "DM API Tokens" on page 277, lists the most commonly used DM tokens.

Chapter



3

DM API Objects

In This Chapter

This chapter describes each of the DM objects, including their syntax, usage, and other related information.

PCDASPFileUpload

Use this object only from scripts running inside Active Server Pages (ASP). This object is used to read from the ASP Request object and write to the supplied PCDPutStream object.

Syntax

PCDASPFileUpload.methodOrProperty

Usage

The PCDASPFileUpload object is a client-side interface (CSI) object used to extract form data (specifically, uploaded files) from the requested object when a form is submitted. When uploading a file, ENCTYPE is set to "multipart/form-data." A server-side component is required to parse the information contained within the file. This utility is used in conjunction with the PCDPutDoc object to write the data stream to the document server.

To demonstrate the process, open the DM Webtop UPLOADDSP. ASP file. Locate the following line of code (where [...] markers indicate that the same line of code continues on the next line of the page):

```
<FORM NAME="uploadForm" ACTION="<%= url %>?[...]
<%=Server.HTMLEncode(formArgs) %>" ENCTYPE=[...]
multipart/form-data METHOD=post>
<INPUT type="button" Value="<%=getString(([...]
isImportVersion)?"IMPORT_BUTTON1":"UPLOAD_[...]
HEADER")%>" onclick="submitFunction()">
```

Assuming that you are not using the DM Webtop Smart CheckIn/CheckOut feature, when the form is submitted, your Internet browser knows that you are uploading a file and will prompt you with an Input File dialog box that contains a Browse button. Select the file to be uploaded. The file itself is embedded as part of the form via the POST method. In UPLOADACT.ASP, the PCDASPFileUpload component is used to extract the file from the REQUEST object.

PCDASPFileUpload is a helper class/interface/object that supports the tying of the POST of an ASP Multipart/Form file into a PCDPutStream. (The GET method is not supported in PCDPutStream, so always use POST.) It handles all the parsing of headers from the body content and streaming of the file that is to be uploaded into the DM PCDPutStream object.

The OnStartPage method initializes the COM interface pointers to all of the ASP objects, such as Session, Application, Request, Response, and Server. These are passed by the ASP engine from the interface pointer.

The Execute method reads from the ASP Request object that is obtained during OnStartPage. It uses the ReadBinary method to write to the PCDPutStream object that the server supplies.

The IsEmpty method can be used to determine if the body of the content is empty, which would indicate that a zero-byte file was sent. IsEmpty looks at the posted stream, parses out the header, and determines if the document being sent is empty. If the content is empty, the success return value is set to TRUE, and the error state is set to PCD_ERR_ZERO_BYTE_UPLOAD. If the body content is not empty, the success return value is set to FALSE, and no error condition is set.

The OnEndPage method releases all the interface pointers acquired during the OnStartPage initialization and resets the error state.

Example

The following is an example of creating an instance of the PCDASPFileUpload.

```
.
.
.
.
.
.
.
.
.
.
.
.
.
.
.
.
pFile = _
Server.CreateObject("PCDClient.PCDASPFileUpload")
.
.
.
.
.
```

Related Items

See the following methods:

Execute IsEmpty OnEndPage OnStartPage

See the following properties: ErrDescription ErrNumber

PCDDocObject

This object is one of the true workhorses of the DM API. Custom applications use it to manipulate Document objects. Document objects include such elements as Document Profiles, search forms, and versions.

Syntax

PCDDocObject.methodOrProperty

Example

The following is an example of creating an instance of the PCDDocObject.

```
.
.
pObject = _
    Server.CreateObject("PCDClient.PCDDocObject")
.
.
```

Related Items

See the following methods:

```
Create
Delete
Fetch
FetchTrustees
GetProperties
GetProperty
GetReturnProperties
GetReturnProperty
GetTrustee
GetTrustees
GrantRight
HasRight
RevokeRight
SetDST
SetObjectType
SetProperties
SetProperty
SetTrustee
SetTrustees
Update
UpdateTrustees
```

See the following properties:

ErrDescription ErrNumber

PCDEnumPropertyLists

This object allows you to iterate through collections of property lists. Most often used with documents and folders, PCDEnumPropertyLists also allows you to iterate through the property lists associated with collections of versions, root objects, and other items. For example, if a folder is deleted, all of the documents and folders it contained must have their properties updated to indicate that they are no longer contained in the deleted folder.

PCDEnumPropertyLists supports COM-standard enumeration interface methods. Every COM-standard enumeration object supports Clone, Next, Reset, and Skip methods.

Syntax

PCDEnumPropertyLists.*methodOrProperty*

Related Items

See the following methods:

Clone Next Reset Skip

See the following properties:

ErrDescription ErrNumber

PCDError

This object is a base object for all other PCDClient objects. It provides common properties that you access through the other objects to get error information.

Usage

You do not have to create an instance of this object. All other PCDClient methods access it directly.

Example

All PCDClient objects can access the PCDError objects properties without creating a PCDError object in their application. Most of the sample code in this guide contains examples of how the ErrNumber and ErrDescription properties are accessed.

The section titled Fetching a DM Document Object in Chapter 1 is one of the many examples that illustrate how you can use PCDError properties in your custom applications.

Related Items

See the following properties:

ErrDescription ErrNumber

PCDGetDoc

This object is used to manage the retrieval of a set of physical files that comprise the components of one version of a document. You use this object just as you would the PCDSearch object. Use PCDGetDoc.AddSearchCriteria to specify the criteria that identify which document and version you want. Normally, this would mean specifying criteria like "%DOCUMENT_NUMBER" "79", "%VERSION_ID" "3". The provided criteria must resolve to exactly one version of one document.

Syntax

PCDGetDoc.methodOrProperty

Returns

PCDGetDoc returns data stored in the COMPONENTS table, including the document number, version ID, size of the file, and the name of the file.

Usage

The following steps show the general usage sequence for the PCDGetDoc object:

- 1. Specify the library where the document is stored.
- 2. Provide a DST.
- 3. Set search criteria that will precisely identify the item you wish to retrieve.
- 4. Call PCDGetDoc. Execute method to retrieve the document.
- 5. Iterate through them using PCDGetDoc.NextRow or call PCDGetDoc.SetRow to get to a specific item.
- 6. Call PCDGetDoc.GetPropertyValue to retrieve the file content by referencing the "%CONTENT" token. This will return a pointer to a Dispatch interface (a PCDGetStream object) that you can then use to read the physical file.
- 7. After file retrieval is complete, release memory associated with your PCDGetDoc object.

Example

The following example shows you can use PCDGetDoc to retrieve the name of a file that contains a document in your DM repository.

```
Dim objGetDoc As New PCDGetDoc
objGetDoc.SetDST strDST
objGetDoc.AddSearchCriteria
"%TARGET_LIBRARY", strLib
objGetDoc.AddSearchCriteria
"%DOCUMENT_NUMBER", strDocNum
objGetDoc.AddSearchCriteria
"%VERSION_ID", strVersionID
objGetDoc. Execute
If objGetDoc.ErrNumber <> 0 Then
    'Error occurred.
End If
Dim lngRowCount As Long
Dim strFileName As String
'Dim bdata() As Byte
'Dim indata As Variant
lngRowCount = objGetDoc.GetRowsFound
If objGetDoc.ErrNumber <> 0 Then
'Error occurred.
If lngRowCount <> 1 Then
    'Possible Error. Only 1 file expected.
   objGetDoc.SetRow( 1 )
strFileName = objGetDoc.GetPropertyValue( _
   PATH )
MsgBox "The name of the document is: " & _
      strFileName
EndIf
```

Related Items

See the following methods:

```
AddSearchCriteria
Execute
GetPropertyValue
GetReturnProperties
GetRowsFound
GetSearchCriteria
```

NextRow SetDST SetRow SetSearchCriteria SetSearchObject

See the following properties:

ErrDescription ErrNumber

PCDGetForm

Use this object to retrieve information contained in the FORMS table in the SQL database. It is presently used specifically for the JavaForms interface.

Syntax

PCDGetForm. methodOrProperty

Example

The following example shows how to create an instance of this object.

```
.
.
pLibs = Server.CreateObject("PCDClient.PCDGetForm")
.
.
```

Related Items

See the following methods:

```
AddSearchLib
Execute
GetPropertyValue
SetDST
SetObjectType
```

See the following properties:

```
ErrDescription ErrNumber
```

PCDGetLoginLibs

Use this object to get a list of available logon libraries from the DM Server. This is a list of the libraries configured in DM Server Manager, and they are obtained from a PCDOCS.INI file in the system.

Syntax

PCDGetLoginLibs. methodOrProperty

Usage

This object allows you to determine which libraries are available for use by a user. Users can log on to any libraries this object returns. You also use it to select the current working library.

Example

The following example assembles the libraries available to the current user and puts them into a ListBox.

```
Dim objGetLibs As New PCDGetLoginLibs
Dim LNumOfLibs As Long
Dim strLibName() As String
Dim LCounter
Dim 1stLibList As New ListBox
'Set the DST.
objGetLibs.SetDST strDST
' Get a list of libraries available to the user.
objGetLibs.Execute
If (objGetLibs.ErrNumber <> 0) Then
   'Error occurred. Process it as appropriate.
End If
'Get the number of libraries.
LNumOfLibs = objGetLibs.GetSize - 1
ReDim strLibName(LNumOfLibs)
For LCounter = 0 To LNumOfLibs
  strLibName(LCounter) = _
    objGetLibs.GetAt(LCounter)
  lstLibList.AddItem strLibName
Next
```

```
Set objGetLibs = Nothing
.
.
```

Related Items

Execute GetAt GetSize

See the following properties:

ErrDescription ErrNumber

PCDGetStream

Use this object to provide the user with a way to read the contents of a physical file.

Syntax

PCDGetStream. methodOrProperty

Usage

When calling this object, after each Read, you should check the ErrNumber property. If ErrNumber returns zero (indicating that no error occurred), you should check the BytesRead property to see how many bytes were actually returned by the Read.

Note: If you are using a language such as Visual Basic or Visual C++, you can use the optional second parameter for Read to get the number of bytes read, instead of checking the BytesRead property.

Example

The following example shows how PCDGetStream can be used to determine the length of a document in your DM Repository.

```
Assumptions for this example:
- bstrDocNum already contains doc number.
   - bstrDST already contains security token.
   - bstrLib already contains library name.
   - bstrVerNum already contains the document
     version number.
'Object to get Doc information
Dim objDOC As New PCDDocObject
'Create our Stream object
Dim objGetStream As New PCDGetStream
'vars to hold byte counts.
Dim blnLoopCtrl As Boolean
Set blnLoopCtrl = False
Dim lngCurCount As Long, lngTotCount As Long
lngCurCount = 0
lngTotCount = 0
'Set our library
objDOC.SetProperty "%TARGET_LIBRARY", bstrLib
'Set the DST.
objDOC.SetDST bstrDST
```

```
'Set the Form (here the Default Profile Form).
objDOC.SetObjectType "DEF_PROF'
'Get the document.
objDOC.SetProperty "%OBJECT_IDENTIFIER", _
                    bstrDocNum
objDOC.Fetch
If objDOC.ErrNumber <> 0 Then
  ' Error occurred during Fetch. Process it.
End If
'Create/Set-up object to get the document.
Dim objGetDoc As New PCDGetDoc
objGetDoc.SetDST bstrDST
objGetDoc.AddSearchCriteria "%TARGET_LIBRARY", _
objGetDoc.AddSearchCriteria "%DOCUMENT_NUMBER", _
    bstrDocNum
objGetDoc.AddSearchCriteria "%VERSION_ID", _
    bstrVerNum
objGetDoc.Execute
If objGetDoc.ErrNumber <> 0 Then
    'Error occurred: Process it.
End If
Set objGetStream = _
    objGetDoc.GetPropertyValue("%CONTENT")
bytInArray() = objGetStream.Read(5120)
lngCurCount = objGetStream.BytesRead
while ((objGetStream.ErrNumber <> 0) And _
    lngCurCount > 0))
  lngTotCount = lngTotCount + lngCurCount
  bytInArray = objGetStream.Read(5120)
  lngCurCount = objGetStream.BytesRead
wend
If (objGetStream <> 0) Then
  'Error: Unexpected end to read loop.
Else
  If (lngTotCount > 0) Then
    MsgBox "Done. File is " & _
      CStr(lngTotCount) & _
      " Bytes in Length."
     Error: Read Failed. Process the error.
  End If
End If
Set objDoc = Nothing
Set objGetDoc = Nothing
Set objGetStream = Nothing
```

Related Items

See the following methods:

GetPropertyValue Read Seek SetComplete

See the following properties:

BytesRead ErrDescription ErrNumber

PCDLogin

Use this object to create or append validated network aliases to a document security token (DST)

Syntax

PCDLogin. methodorProperty

Example

The section titled Providing Library Access in Chapter 1 illustrates how you can use the PCDLogin object in your documents.

Related Items

See the following methods:

AddLogin Execute GetAliasList GetDOCSUserName GetDST GetFailedLoginList GetLoginLibrary GetPrimaryGroup SetDST

See the following properties:

ErrDescription ErrNumber

PCDLookup

PCDLookup allows you to execute a lookup of data stored in validated SQL columns, such as AUTHOR or DOCUMENTTYPE. You can use PCDLookup to do this in your custom application by specifying:

- · the data in the fields on the form, and
- the lookup ID.

PCDLookup returns the same data that would be displayed in the list box of the DM lookup, plus any other columns that would be needed to update related fields on the base form. For example, if you use the Matter lookup definition, the column for the Client_ID will also be returned.

Syntax

PCDLookup. methodOrProperty

Usage

This object works differently than the PCDSearch object in that you don't specify return properties. The server determines what they should be by looking at the lookup definition and the base form.

All the columns in the list box on the lookup will be included as return properties, plus the contents of any "related data" columns that need to be updated on the form when the lookup's target field changes.

Also, unlike PCDSearch, you have to specify a target property. This is the field you are trying to fill in using the lookup (for example, Author or Matter).

After you Execute the lookup, you get back data and metadata. The metadata tells you what columns are in the data. The metadata columns include the following return properties: %PropertyName, %Title, %Visible, and %Data.

Example

The following example demonstrates how you can use PCDLookup to create and process a Lookup search. It includes most of the methods that PCDLookup supports.

```
Sub Lookup( )
   Create our object
  Dim objPCDLookup As New PCDLookup
   Create a property list
  Dim objPCDPropList As New PCDPropertyList
   Set up our propertylist so it can be used
  objPCDPropList.AddProperty "AUTHOR_ID",
"J_SMITH"
  'Set up the parameters for the lookup.
  'Set the DST.
  objPCDLookup.SetDST strDST
  'Set the Library.
objPCDLookup.AddSearchLib strLib
   Set the search object. This form must
   'the lookup (such as client or matter)
  objPCDLookup.SetSearchObject( "DEF_QBE1"
   Set the Lookup name.
  objPCDLookup.SetLookupId "PEOPLE"
  'Set the target property to look up.
objPCDLookup.SetTargetProperty "AUTHOR_ID"
'Set the search criteria.
objPCDLookup.SetSearchCriteria objPCDPropList
'Set the filter criteria. objPCDPropList objPCDLookup.AddUserFilterCriteria "AUTHOR_ID",
  'Determine fields to search.
  Dim strAns As String, intAns As_Integer
  Dim strPrompt As String, strTitle As String
strTitle = "Author or Author/Typist Search"
  & "also wish to search for the person" &
       vbCr & "you selected in the Typist
field?"
  strAns = MsgBox(strPrompt, vbYesNo,
strTitle)
  intAns = CInt(strAns)
  If intAns = 6 Then
     'User answered "Yes." Broaden search.
     objLookup.AddSearchCriteria "TYPIST_ID",
J_SMITH
      Also, delete_filter on author name so it
     'does not exclude <u>J_SMITH</u> as typist.
     objLookup.ClearUserFilterCriteria
  Else If intAns = 7
'User answered "No." Search is OK as is.
    MsgBox "No change to search criteria.
  & "the Sort Order: " _
& vbCr & " 1 - Author, ascending sort "
```

```
& vbCr & " 2 - Author, descending sort
       & vbCr & " Other - Unsorted results "
  strAns = InputBox(strPrompt, strTitle)
  If IsNumeric(strAns) Then
     intAns = CInt(strAns)
  Else
     intAns = 9 'Can be any integer.
  End If
  Select Case intAns
  Case 1
     Sort by author, ascending order. 'The Boolean value that follows AUTHOR_ID
can be
      anything except zero (or an expression
'evaluates to zero).
    objPCDLookup.AddOrderByProperty "AUTHOR_ID",
  Case 2
   'Sort by author, descending order.
objPCDLookup.AddOrderByProperty "AUTHOR_ID",
  Case Else
     'Unsorted. This assures unsorted results,
     'it may not be required unless there were
     'previous searches.
     objPCDLookup.ClearOrderByProperties
  End Select
   'Set the maximum number of records search
returns.
  objPCDLookup.SetMaxRows 500
  'Set the number of records to be returned at 'one time to user's local cache.
  objPCDLookup.SetChunkFactor 10
  'Execute the lookup
  objPCDLookup. Execute
  If objPCDLookup ErrNumber <> 0 Then
     'Error: process it.
  End If
  'Get the information from the result set
Dim intColCount As Integer
Dim lngRowsFound As Long, lngMetaFound As
Long
   'Get the number of data rows found by the
lookup.
  IngRowsFound = objPCDLookup.GetRowsFound
  MsgBox "The search returned " _
& CStr( lngRowsFound ) & " rows of data."
   'Get the number of metadata rows lookup
found.
  IngMetaFound = objPCDLookup.GetMetaRowsFound
MsgBox "The search returned " _
```

```
& CStr( lngMetaFound ) & " rows of
metadata.
   'Get the number of columns in the result
data set.
  intColCount = objLookup_ColumnCount
  MsgBox "The search result data set contains
& CStr( intColCount ) & " columns of data."
  'Clear the result set list box (if needed). lstResultSet.Clear
  'Set pointer position to row 0 in the result
   'NextRow will then increment it to the first
data
   row.
  objPCDLookup.SetRow(0)
  Do While objPCDLookup NextRow
    If objPCDLookup.ErrNumber <> 0 Then 
'Error reading data row. Process it.
     'Set pointer position to row 0 in the
metadata
      result set. NextMetaRow will then
increment
      it to the first data row.
    objPCDLookup.SetMetaRow (0)
Do While objPCDLookup.NextMetaRow
       If objPCDLookup ErrNumber <> 0 Then
          'Error reading metadata row. Process
it.
       End If
       'Retrieve short name of the metadata
property.
       lstResultSet.AddItem _ objPCDLookup.GetMetaPropertyValue( _
            "PŘOPNAME")
       'Shows whether column is Visible: 0=No
       lstResultSet.AddItem
            objPCDLookup.GetMetaPropertyValue( _
            "VISIBLE")
       Long Name of the metadata property.
       lstResultSet.AddItem
objPCDLookup.GetMetaPropertyValue("TITLE")
'The lookup data associated with
       'this metadata property.
       lstResultSet.AddItem
objPCDLookup.GetMetaPropertyValue("DATA")
       lstResultSet.Show
MsgBox "ListBox displays metadata " _
"for current row."
       lstResultSet.Hide
       lstResultSet.Clear
    Loop
  Loop
```

```
'Cleanup...
objPCDLookup.ReleaseResults
Set objPCDLookup = Nothing
Set objPCDPropList = Nothing
End Sub
.
.
```

Related Items

See the following methods:

```
AddOrderByProperty
AddSearchCriteria
AddSearchLib
AddUserFilterCriteria
ClearOrderByProperties
ClearUserFilterCriteria
ColumnCount
Execute
GetMetaPropertyValue
GetMetaRowsFound
GetPropertyValueByIndex
GetRowsFound
GetSearchCriteria
NextMetaRow
NextRow
ReleaseResults
SetChunkFactor
SetDST
SetLookupId
SetMaxRows
SetMetaRow
SetRow
SetSearchCriteria
SetSearchObject
SetTargetProperty
```

See the following properties:

PCDNetAliasList

The PCDNetAliasList object stores a list of network aliases. A network alias consists of the following:

- a UnitType
- a UnitName
- a UserName and Password

The UnitType is a DM library, or a NetWare 5.x, NetWare 6.x, or Microsoft Network. Depending on the UnitName, the UnitType is either a DM library name, the NetWare server name, the NetWare NDS tree name, or the Windows network domain name, respectively. Note that this object accepts and stores passwords, but it does not allow them to be retrieved.

Syntax

PCDNetAliasList.methodOrProperty

Example

The section titled Providing Library Access in Chapter 1 illustrates how you can use the PCDNetAliasList object in your custom applications.

Related Items

See the following methods:

GetSize UnitName UnitType UserName

See the following properties:

PCDNetworkInfo

The PCDNetworkInfo object supports the integration of DM with your network-based security. The methods PCDNetworkInfo supports allow you to build tight network operating system integration into your DM document management system. These methods also allow you to browse network information about domains, groups, and users.

Syntax

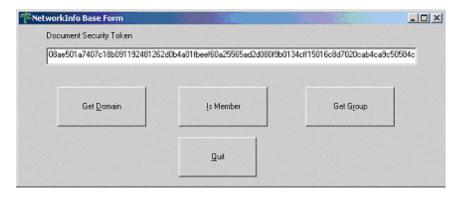
PCDNetworkInfo.MethodOrProperty

Usage

Use methods supported by PCDNetworkInfo to make inquiries of current network elements within your network environment. You can retrieve information about Domains, Groups, and Users. Most of these methods load a result set with data. You retrieve data from these result sets by using a pair of methods in conjunction with one another: NextRow and GetValue.

Example

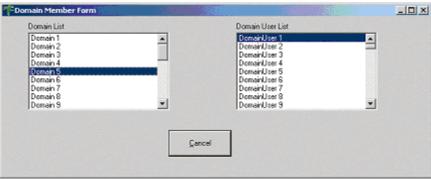
The following example illustrates the use of PCDNetworkInfo and the methods it supports.



Public sDST As String

Private Sub cbDomain_Click()
DomainForm.oNWInfo.SetDST (sDST)
DomainForm.Show

```
End Sub
Private Sub cbGroupInfo_Click()
 GroupForm.sDST = sDST
 GroupForm.oGroupInfo.SetDST (sDST)
 GroupForm.Show
End Sub
Private Sub cbQuit_Click()
 Unload NetInfoBaseForm
End Sub
Private Sub Form_Load()
  'Local Variable declarations.
 Dim oLogin As New PCDLogin
 Dim nResult As Long
 Dim sTempBuf As String
 'Login process.
 sDST = oLogin.GetDST()
  'Get And display the DST.
 txtDST.Text = sDST
```



End Sub

Public onWInfo As New PCDNetworkInfo Private Sub cbCancel_Click() Unload DomainForm End Sub Private Sub Form_Load() Dim nResult As Long Dim nNumRows As Long

```
'Load the Domain List.
' %NI_NT indicates this is aWindows based
^{\mbox{\scriptsize OS}}. ^{\mbox{\scriptsize WUNDEFINED}} returns all domains from the
root.
  nResult = oNWInfo.GetDomainList("%NI_NT", _
        '%UNDEFINED")
  nNumRows = 0
  'If the Domain list has been retrieved,
  'get the number of domains in the list.

If nResult = 0 Then
    nNumRows = oNWInfo.GetRowCount()
  End If
  If nNumRows = 0 Then
    MsgBox "You do not have access to Domain "
         & "information at this time."
     Else
        Fill the listbox.
       For i = 1 To nNumRows

nResult = oNWInfo.NextRow()
lstDomains.AddItem (oNWInfo.GetValue())
       Next i
       'Initialize this list to its first
element.
       lstDomains.ListIndex = 0
       'Fill up the UserList with Users in this
list.
       nResult = oNwInfo.GetUserList("%NI NT".
            lstDomains.Text)
       nNumRows = 0
       'Get number of rows that are returned.
       If nResult = 0 Then
         nNumRows = oNWInfo.GetRowCount()
       End If
        Display the list of users in the
       'IsDomainUsers listbox.
      If nNumRows = 0 Then
MsgBox "User information for this domain
            & "is not available to vou."
       Else
         For i = 1 To nNumRows
            nResult = oNWInfo.NextRow()
            lstDomainUserList.AddItem ( _
                  onwinfo.GetValue())
         Next i
         'Pre-select the first item in the list.
         lstDomainUserList.ListIndex = 0
       End If
     End If
```

```
End Sub
Private Sub lstDomains_Click()
  Dim nResult As Long
  Dim nNumRows As Long
  'Clear listbox for results of this call.
  lstDomainUserList.Clear
  'Fill the UserList with Users within this
list.
  nResult = oNWInfo.GetUserList("%NI_NT", _
       1stDomains.Text)
  nNumRows = 0
  'Get the number of rows that are returned.
  If nResult = 0 Then
    nNumRows = oNWInfo.GetRowCount()
  End If
  'Display users in the lstDomainUsers listbox
If nNumRows = 0 Then
MsgBox "User information for this domain "
         & "is not available to you."
  Else
    For i = 1 To nNumRows
       nResult = oNWInfo.NextRow()
       lstDomainUserList.AddItem( _
           oNWInfo.GetValue())
    Next i
       'Pre-select the first item in the list.
lstDomainUserList.ListIndex = 0
    End If
End Sub
```



```
Public sDomainName As String
Public sGroupName As String
Public sDST As String
Public oGroupInfo As New PCDNetworkInfo
Private Sub cbCancel_Click()
  Unload GroupForm
End Sub
Private Sub cbIsMember Click()
  Dim nResult As Long
  nResult =
IsMemberForm.olsMember.SetDST(sDST)
  IsMemberForm.sDomainName = "MyDomain"
  IsMemberForm.sGroupName = "MyGroup'
  IsMemberForm.TxtUserID = "Jimmy Jones"
  IsMemberForm. Show
End Sub
Private Sub cbGetMembers Click()
  Dim nResult As Long
  'Before loading the next form use load 'load the next form's Group and Domain
   'data members.
  GroupMembersForm.sGroupName = sGroupName
  GroupMembersForm.sDomainName = sDomainName
   'Set the next form's object DST.
  nResult =
GroupMembersForm.oMembers.SetDST(sDST)
  GroupMembersForm.Show
End Sub
Private Sub Form_Load()
  Dim nResult As Long
  Dim sName As String
Dim nNumRows As Long
  'Load up the Domain List.
  nResult = ogroupInfo.GetDomainList( _
"%NI_NT", "%UNDEFINED")
  nNumRows = 0
   'If the Domain list has been retrieved,
  'get the number of domains in the list.
  If nResult = 0 Then
    nNumRows = oGroupInfo.GetRowCount()
  End If
  If nNumRows = 0 Then
```

```
Else
    For i = 1 To nNumRows
      nResult = oGroupInfo.NextRow()
      1stDomains.AddItem
(oGroupInfo.GetValue())
    Next i
    'Initialize Domain list to first element.
    lstDomains.ListIndex = 0
    'This Form data member holds currently 'selected Domain information.
    sDomainName = lstDomains.Text
    nResult = oGroupInfo.GetGroupList( _
"%NI_NT", sDomainName)
    If nResult = 0 Then
      nNumRows = oGroupInfo.GetRowCount()
    End If
    'If no rows are returned then place that
    'information in the ListBox. Otherwise,
place
     the list of all groups in the ListBox.
    If nNumRows = 0 Then
      lstGroups.AddItem "NO GROUPS FOR THIS
DOMAIN"
    Else
      For i = 1 To nNumRows
        nResult = oGroupInfo.NextRow()
        lstDomains.AddItem
(oGroupInfo.GetValue())
 Next i
End If
End If
  cbGetMembers.Enabled = False
End Sub
Private Sub 1stDomains Click()
  sDomainName = lstDomains.Text
  lstGroups.Clear
  'Fill the UserList with Users in this list.
  nResult = oGroupInfo.GetGroupList( _
       '%NI_NT", sDomainName)
  nNumRows = 0
  'Get the rowcount.
  If nResult = 0 Then
    nNumRows = oGroupInfo.GetRowCount()
  End If
```

```
'Display user list in the lstGroups ListBox.

If nNumRows = 0 Then
    MsgBox "User information for this domain "

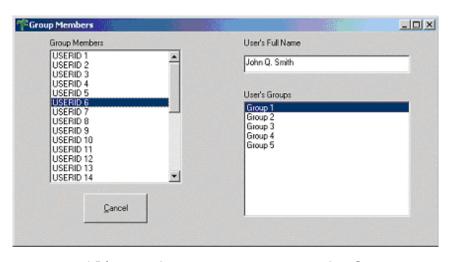
"is not available to you."

Else
    For i = 1 To nNumRows
        nResult = oGroupInfo.NextRow()
        lstGroups.AddItem (oGroupInfo.GetValue())
    Next i

'Pre-select the first item in the list.
    lstGroups.ListIndex = 0
    sGroupName = lstGroups.Text
    cbGetMembers.Enabled = True
    End If

End Sub

Private Sub lstGroups_Click()
    sGroupName = lstGroups.Text
    cbGetMembers.Enabled = True
End Sub
```



```
Public oMembers As New PCDNetworkInfo
Public sDomainName As String
Public nFirstTime As Long
Public sGroupName As String

Private Sub cbCancel_Click()
  Unload GroupMembersForm
End Sub

Private Sub Form_Load()

Dim nResult As Long
Dim sMember As String
Dim nNumRows As Long
```

```
'Retrieve the GroupMembers from the network
  nResult = oMembers.GetGroupMembers( _
"%NI_NT", sDomainName, sGroupName)
  If nResult = 0 Then
    'Get the Group members.
    nNumRows = oMembers.GetRowCount()
    If nNumRows = 0 Then
      MsgBox "No access to Members for this
aroup.
    Else
       'Place all of the members of this group
       'in the ListBox.
      For i = 1 To nNumRows
         nResult = oMembers.NextRow()
         lstMembers.AddItem
(oMembers.GetValue())
      Next i
      'Select the first member in the list.
lstMembers.ListIndex = 0
    End If
  Else
     No members in this group.
    1stMembers.AddItem sDomainName + "No
Members
  End If
  nFirstTime = 1
End Sub
Private Sub lstMembers_Click()
  Dim nResult As Long
  Dim nNumRows As Long
  'If program is now checking the top of
Member
  'list from the opening of the form...
  If nFirstTime > 0 Then
    '...Clear the Users Groups ListBox.
    lstUsersGroups.Clear
    'Retrieve the selected user's full name.
    nResult = oMembers.GetUserFullName( _
"%NI_NT", sDomainName,
lstMembers.Text)
    nResult = oMembers.NextRow()
    txtFullName.Text = oMembers.GetValue()
    'Retrieve all groups that include the 'selected user.
    nResult = oMembers.GetUserGroups( _
```

```
"%NI_NT", sDomainName, lstMembers.Text)
    If nResult = 0 Then
         nNumRows = oMembers.GetRowCount()
       If nNumRows > 0 Then
          'Place all Groups that include this
user
         'into the UsersGroups ListBox.
For i = 1 To nNumRows
nResult = oMembers.NextRow()
            lstUsersGroups.AddItem ( _
                  oMembers.GetValue())
         Next i
       Else
         1stUsersGroups.AddItem 1stMembers.Text
              & " is not a member of any groups."
       End If
     Else
    lstUsersGroups.AddItem "Unable to " _ & "retrieve the Users Groups."

End If
  Else
      This is the first time through. Do not
     retrieve any Group or name information
     'for this user ID.
     nFirstTime = nFirstTime + 1
  End If
End Sub
```



Public sGroupName As String
Public oIsMember As New PCDNetworkInfo
Public sDomainName As String
Private Sub cbCancel Click()

```
Unload IsMemberForm
End Sub

Private Sub cbSearchGroup_Click()

Dim nResult As Long
Dim dUserID As String

SUSERID = TxtUserID.Text

nResult = oIsMember.IsMemberOf( "%NI_NT", _
SDOMainName, SUSERID, SGROUDNAME)

If oIsMember.NextRow() Then
SRESULTValue = oIsMember.GetValue()
MSgBox "Positive response to IsMember - " _
& SRESULTValue & "."

Else
MSgBox "NextRow returned false."
End If
```

End Sub

Related Items

See the following methods:

GetDomainList GetGroupList GetGroupMembers GetRowCount GetUserFullName

GetUserGroups

GetUserList GetValue IsMemberOf NextRow

SetDST

See the following properties:

PCDPropertyList

PCDPropertyList is a Messenger object that allows you to store and manipulate a collection of property name/value pairs. PCDPropertyList uses a zero-based index. Loading different name/value pairs into this object provides a mechanism for your custom applications to send descriptive information from the client interface to the server interface.

One example of the use of these properties occurs within the PCDNetworkInfo object. Many of the methods in PCDNetworkInfo set properties in the PCDPropertyList data member and then call a protected Execute method, which calls back to the server. The property list is broken out in the call to the server, into an integer value giving the size of the array, an array of string variables (BSTRS) representing the property names, and an array of Variants containing the values of these properties. PCDPropertyList methods contain elements that specify which methods the server should call, as well as the parameters for those methods.

Since the PCDPropertyList object is primarily used as a utility by the other objects that comprise the DM API, this object should not be implemented directly. Instead, it should be used as a tool that allows you to modify other objects that are supported within the DM API.

Syntax

PCDPropertyList.methodOrProperty

Usage

Since the PCDPropertyList object is used to pass information between the client and server, direct calls to these methods provide you the ability to share unique information required by your custom application. However, any unique properties you create as part of your application will only work properly if they are correctly received and interpreted in both the client interface and the server interface. If you add or modify a client-side property, you must make appropriate modifications in your server-side application, or changes that you make will have no effect.

Example

The following example shows how you can incorporate the functionality of the GetPropertyList object into an application.



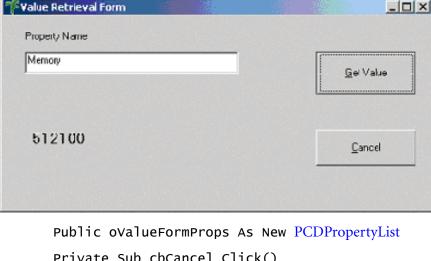
```
Public oGlobalPropertyList As New
PCDPropertyList
Private Sub cbDelete_Click()
  Dim nResult As Long
Dim nTotalElements As Integer
  nTotalElements = oGlobalPropertyList.GetSize
  MsgBox "The Total number of elements in the
       & "PCDPropertyList - " +
Str(nTotalElements)
  For i = 1 To nTotalElements
   nResult=oGlobalPropertyList.NextProperty()
   nResult=DeleteForm.oDeleteProp.AddProperty(
oGlobalPropertyList.GetCurrentPropertyName(),
oGlobalPropertyList.GetCurrentPropertyValue())
  Next i
  DeleteForm.Show
End Sub
Private Sub cbListProperties_Click()
  Dim nResult As Long
Dim nTotalElements As Integer
  nTotalElements = oGlobalPropertyList.GetSize
  MsgBox "The Total number of elements in the
       & "PCDPropertyList - " +
```

```
Str(nTotalElements)
  For i = 1 To nTotalElements
    nResult=oGlobalPropertyList.NextProperty()
nResult=ListForm.oListFormProps.AddProperty(_
oGlobalPropertyList.GetCurrentPropertyName(),
oGlobalPropertyList.GetCurrentPropertyValue())
  Next i
  ListForm.Show
End Sub
Private Sub cbQuit_Click()
    Unload BaseForm
End Sub
Private Sub_cbSearch_Click()
  Dim nTotalElements As Integer
  Dim nResult As Long
  nTotalElements = oGlobalPropertyList.GetSize
  MsgBox "The Total number of elements in the
      & "PCDPropertyList - " +
Str(nTotalElements)
  nResult = oGlobalPropertyList.BeginIter()
  For i = 1 To nTotalElements
    nResult =
      ValueForm.ovalueFormProps.AddProperty(_
oGlobalPropertyList.GetCurrentPropertyName(),
oGlobalPropertyList.GetCurrentPropertyValue())
    nResult = oGlobalPropertyList.NextProperty()
  Next i
  ValueForm. Show
End Sub
'During the form load, a series of performance 'metadata elements are being loaded into the 'Property list.
Private Sub Form Load()
  Dim nResult As Long
  Dim vPropValue As Variant
  vPropValue = 85
  'Load CPU metadata.
  nResult = oGlobalPropertyList.AddProperty( _ "CPU", vPropValue)
```

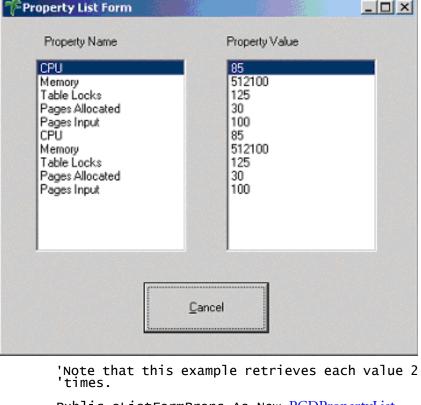
```
'If successful, then load the Memory
metadata.
  If nResult = 0 Then
    vPropValue = 512100
     nResult = oGlobalPropertyList.AddProperty(
         "Memory", vPropValue)
     'If successful, then load the Table Locks
     'metadata
     If nResult = 0 Then
       vPropValue = 125
       nResult =
            oGlobalPropertyList.AddProperty( _ "Table Locks", vPropValue)
       'If successful, then load the Pages
Allocated
        'metadata.
       If nResult = 0 Then
         vPropValue = 30
         nResult =
              oGlobalPropertyList.AddProperty(_
              "Pages Allocated", vPropValue)
          'If successful then load the Pages
Input
         'metadata.
         If nResult = 0 Then
            vPropValue = 100
            nResult =
              oGlobalPropertyList.AddProperty( _ "Pages Input", vPropValue)
              If nResult <> 0 Then
                MsgBox "Pages Input Property "
& "addition failed."
            End If
         Else
           MsgBox "Pages Allocated Property " _
_ & "addition failed"
         End If
       Else
         MsgBox "Table Locks property "
& "addition failed."
       End If
    Else
       MsgBox "Memory Property addition failed"
    End If
  Else
```

MsgBox "CPU Property Addition has failed" End If

End Sub



```
Private Sub cbCancel_Click()
    Unload ValueForm
End Sub
Private Sub cbFindValue_Click()
  Dim nResult As Long
  Dim sSearchString As String
  Dim vPropValue As Variant
  sSearchString = txtPropertyName.Text
  'Use the value in the text box to retrieve
  'the value of the text box.
  vPropValue = _
      ovalueFormProps GetPropertyValue( _
      sSearchString)
  'Report the value of the property.
  lblValue.Caption = vPropValue
  lblvalue.FontSize = 12
  lblvalue.FontBold = True
End Sub
Private Sub Form_Load()
    txtPropertyName.Text =
lblPRopertyName.Caption
End Sub
```



```
Public oListFormProps As New PCDPropertyList
Private Sub cbCancel_Click()
   Unload ListForm
End Sub
Private Sub Form_Load()
```

Dim nTotalElements As Integer Dim nResult As Long

nTotalElements = oListFormProps.GetSize

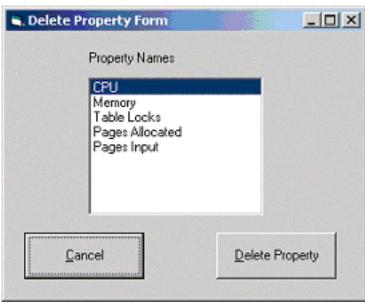
'Prime the pump by setting the index element to 0
'so program can iterate through the

PCDProperties
'array.

nResult = oListFormProps.BeginIter

nTotalElements = nTotalElements * 2

'In this way we are able to go through the 'entire list of elements.



```
Public nActiveProperty As Integer
Public oDeleteProp As New PCDPropertyList

Private Sub cbCancel_Click()
   Unload DeleteForm
End Sub

Private Sub cbDelete_Click()

Dim nResult As Long
Dim nTotalRows As Long

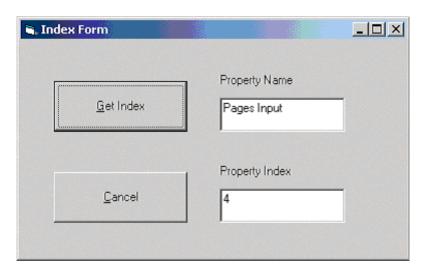
'Clear the listbox.
lstProperties.Clear

'Delete the property that was selected.
nResult = oDeleteProp.DeleteProperty
   nActiveProperty

'Determine number of rows in the
```

```
PCDPropertyList.
  nTotalRows = oDeleteProp GetSize()
  If nTotalRows > 0 Then
     If there are rows in the Property list,
    'ready to retrieve properties from the
list.
    nResult = oDeleteProp.BeginIter()
    oDeleteProp.GetCurrentPropertyName())
          nResult = oDeleteProp. NextProperty()
    Next i
  End If
  lstProperties.ListIndex = 0
 nActiveProperty = lstProperties.ListIndex
End Sub
Private Sub Form_Load()
 Dim nResult As Long
Dim nTotalRows As Long
  'Determine number of rows in the
PCDPropertyList.
  nTotalRows = oDeleteProp.GetSize()
  If nTotalRows > 0 Then
    'If there are rows in the Property list,
    'ready to retrieve properties from the
list.
    nResult = oDeleteProp.BeginIter()
    'Place the property names in the listbox. For i = 1 To nTotalRows
      lstProperties.AddItem(
          opeleteProp. GetCurrentPropertyName())
      nResult = oDeleteProp. NextProperty()
    Next i
  End If
 lstProperties.ListIndex = 0
 nActiveProperty = lstProperties.ListIndex
```

Private Sub lstProperties_Click()
 nActiveProperty = lstProperties.ListIndex
End Sub



```
Private Sub cbGetIndex_Click()
   Note: This code above demonstrates the
  'GetPropertyIndex call on the
PCDPropertyList
  object. You enter the property name (value
), 'and you are returned the zero-based index
  'that property.
Dim nResult As Long
  Dim nIndex As Long
  Dim nSize As Long
  Dim spropName As String
  sPropName = txtPropertyName.Text
  if spropName = "None" Then
    MsgBox "Please enter a property before "
& "trying to retrieve the index."
  Else
    nSize = oIndexFormProps.GetSize()
If nSize > 0 Then
      nIndex =
           oIndexFormProps.GetPropertyIndex(_
           sPropName)
      If nIndex >= 0 And nIndex < nSize Then
         txtPropertyIndex.Text = nIndex
      Else
        MsgBox "This is not a valid property "
            & "or the property returned is out
```

```
" - & "of range."

End If
Else
MsgBox "The PropertyList is empty."
End If
End If
End Sub
```

Related Items

See the following methods:

AddProperty
BeginIter
DeleteProperty
GetCurrentPropertyName
GetCurrentPropertyValue
GetPropertyIndex
GetPropertyValue
GetSize
NextProperty

See the following properties:

PCDPropertyLists

This object lets you work with a collection of PCDPropertyList objects.

Syntax

PCDPropertyLists.methodOrProperty

Related Items

See the following methods:

BeginIter
Execute
GetCurrentPropertyName
GetCurrentPropertyValue
NewEnum
NextProperty
NextRow
SetChunkFactor
SetDST
SetObjectType
SetOptions
SetProperties
SetProperty

See the following properties:

PCDPutDoc

PCDPutStream object pointers that your customized client application can use to write the physical files that make up one version of a DM document to the appropriate DM repository.

Syntax

PCDPutDoc. methodOrProperty

Usage

The particular document/version that is to be written is determined by setting search criteria. Normally, this would be the document ID number, the version ID number, and possibly the sub-version identifier. The actual names of these properties is determined by how they are identified on the search form, rather than the names of the SQL database columns they reference.

Note: While the DM API allows you to change the name of fields on forms you create (or modify), you should only do this when absolutely necessary. You should **never** rename original fields on the standard forms that DM creates when you initially install it.

Also, you must set the NUM_COMPONENTS property in the search criteria. This tells the server how many component files will make up the document version. The default is 1, but some applications (such as some CAD/CAM files) are comprised of several component files.

After calling Execute, you can call GetRowsFound to return NUM_COMPONENTS. Use NextRow or SetRow to iterate through the rows found. For each of the component files, use GetPropertyValue("CONTENT") to retrieve a PCDPutStream object pointer to use to write the file.

Example

The following example shows how you can use the PCDPutDoc object in your custom applications.

```
Private Sub cmdCreateDoc_Click()
Dim DocNumber As Long
Dim VersionID As Long
Dim TotalFileSize As Long
Dim TotalBytesWritten As Long
```

```
Dim Buffread As Long
 Set bdata ridiculously low for test purposes
'to increase the likelihood of corruption.
Dim bdata(16) As Byte
Dim objDoc As PCDDocObject
Set objDoc = New PCDDocObject
objDoc.SetProperty "%TARGET_LIBRARY", Library
objDoc.SetDST DST
'Set the Profile Form for this document.
objDoc.SetObjectType "DEF_PROF"
objDoc.SetDojectType DEF_PROF
objDoc.SetProperty "DOCNAME", "Upload Test Doc"
objDoc.SetProperty "APP_ID", "MS WORD"
objDoc.SetProperty "AUTHOR_ID", "SMITH_J"
objDoc.SetProperty "TYPIST_ID", "SMITH_J"
Set the Document Type, Letter, Memo, etc. objDoc.SetProperty "TYPE_ID", "REPORT"
objDoc.SetProperty "ABSTRACT"
     "Imported via Custom Application"
objDoc.Create
If objDoc.ErrNumber <> 0 Then
  Debug.Print objDoc.ErrNumber, _
       objDoc.ErrNumber
  Exit Sub
Else
  Debug.Print "Created Document Profile!"
Fnd Tf
DocNumber = objDoc.GetReturnProperty( _
     "%OBJECT_IDENTIFIER")
VersionID = objDoc.GetReturnProperty( _
     "%VERSION_ID")
Dim objPutDoc As PCDPutDoc
Set objPutDoc = CreateObject( _
     "PCDClient.PCDPutDoc")
objPutDoc.SetDST DST
objPutDoc.AddSearchCriteria
"%TARGET_LIBRARY", Library objPutDoc.AddSearchCriteria _
     "%DOCUMENT_NUMBER", DocNumber
objPutDoc.AddSearchCriteria "%VERSION_ID", _
     VersionID
objPutDoc.Execute
If objPutDoc.ErrNumber <> 0 Then
  Debug.Print objPutDoc.ErrNumber,
                objPutDoc.ErrDescription
  Exit Sub
Fnd Tf
objPutDoc.NextRow
Dim objPutStream As Object
Set objPutStream = _
```

```
obiPutDoc.GetPropertvValue("%CONTENT")
Dim FileName
FileName = txtFileName.Text
Debug.Print "File Name: ". FileName
Open FileName For Binary Access Read As #1
TotalFileSize = LOF(1)
While (Not EOF(1))
  TotalBytesWritten = TotalFileSize
  If TotalBytesWritten > 0 Then
    'If you want to use Ubound, then you have
    'to increment the reads correctly. The
    'previous code read each successive group
    'of bytes and skipped the byte between the
    'reads. This occurred due to the way in
    'which VB reads binary data. (Read about
    'the Get method.)
    If (TotalBytesWritten > UBound(bdata)) Then
      TotalBytesWritten = UBound(bdata) + 1
       'The +1 was added because this only gets
       'called on successive reads, and not the
       'first read.
      TotalFileSize = TotalBytesWritten
    End If
    Get #1, , bdata
    objPutStream.Write bdata, TotalBytesWritten
    Debug.Print TotalBytesWritten,
                  objPutStream.BytesWritten, _
                  objPutStream ErrNumber,
                  objPutStream.ErrDescription
    TotalBytesWritten = TotalFileSize - .
                          TotalBytesWritten
  Fnd Tf
wend
objPutStream.SetComplete
Close #1
Set objPutSteam = Nothing
Set objDoc = Nothing
Set objDoc = New PCDDocObject
obiDoc.SetDST DST
objDoc.SetObjectType "DEF_PROF"
objDoc.SetProperty "%TARGET_LIBRARY", Library objDoc.SetProperty "%OBJECT_IDENTIFIER", _
    DocNumber
objDoc.SetProperty "%VERSION_ID", VersionID objDoc.SetProperty "%STATUS", "%UNLOCK"
```

Related Items

See the following methods:

AddSearchCriteria Execute GetPropertyValue

GetReturnProperties

GetRowsFound

GetSearchCriteria

NextRow

SetDST SetRow

SetSearchCriteria

SetSearchObject

See the following properties:

PCDPutStream

Use PCDPutStream to provide users with the ability to write the contents of physical files to disk.

Syntax

PCDPutStream. methodOrProperty

Usage

After each write, you should check the ErrNumber property, which should be zero (S_OK). If your write was error-free, you should check the BytesWritten property to see how many bytes were actually written to the physical file.

Note: If you are using a language other than JavaScript, you can use the optional second parameter for Write to get the number of bytes written. This allows you to avoid having to use the BytesWritten property to retrieve this information.

Example

Because of the close relationship that PCDPutStream has with PCDPutDoc, the Example in PCDPutDoc also illustrates how you can use PCDPutStream.

Related Items

See the following methods:

GetPropertyValue
SetComplete
Write

See the following properties:

BytesWritten ErrDescription ErrNumber

PCDRecentDoc

Use the PCDRecentDoc object to retrieve recently edited documents from your DM Repository.

Syntax

PCDRecentDoc. methodOrProperty

Usage

PCDRecentDoc is similar to PCDSearch in how it operates, except that it automatically links to the ACTIVITYLOG table based on the value of the AUTHOR and TYPIST columns. It filters any rows it returns to only include those that have unique entries. Thus, it is the caller's responsibility to specify search criteria, return properties, and an order-by property that satisfies the real meaning of a list of recent documents. For example, the LAST_EDIT_DATE column in the PROFILE table is often used as an AddOrderByProperty method. PCDRecentDoc does *not* automatically filter on the ACTIVITY_TYPE column in the ACTIVITYLOG table.

Example

The following example shows how to create an instance of PCDRecentDoc.

Related Items

See the following methods:

AddOrderByProperty AddReturnMetaProperty AddReturnProperty AddSearchCriteria AddSearchLib BeginGetBlock ColumnCount

EndGetBlock

Execute

GetMetaPropertyValue

GetMetaRowsFound

GetPropertyValue

GetReturnProperties

GetRowsFound

GetSearchCriteria

NextMetaRow

NextRow

ReleaseResults

SetChunkFactor

SetDST

SetMaxRows

SetMetaRow

SetReturnProperties

SetRow

SetSearchCriteria

SetSearchObject

See the following properties:

PCDSearch

PCDSearch provides the user with the ability to enter criteria to execute a search of the available document servers in your DM file store. You can use this object to execute the search, then retrieve the results by randomly or sequentially accessing the data rows that are returned. You access a returned data item by referring to its property name.

Syntax

PCDSearch. methodOrProperty

Example

The following example shows how to create an instance of the PCDSearch object.

Related Items

See the following methods:

AddOrderByProperty
AddReturnMetaProperty
AddReturnProperty
AddSearchCriteria
AddSearchLib
BeginGetBlock
ColumnCount
EndGetBlock
Execute
GetMetaPropertyValue
GetMetaRowsFound
GetPropertyValue
GetPropertyValueByIndex

GetRowsFound

NextMetaRow

NextRow

ReleaseResults

SetChunkFactor

SetDST

SetMaxRows

SetMetaRow

SetReturnProperties

SetRow

SetSearchCriteria

SetSearchObject

See the following properties:

PCDSQL

The PCDSQL object allows direct access to SQL tables that support the DM document management system.

Caution: The PCDSQL object and the methods it supports provide a set of powerful tools that allow you to modify the SQL database that supports your DM system. However, with this power also comes the power to damage or destroy the SQL database tables that DM uses to control your document management environment. Other objects in the DM API offer some degree of protection to safeguard against your accidental or inadvertent corruption of the SQL database tables. By contrast, PCDSQL methods provide your custom applications complete flexibility to modify any SQL database table in the DM library.

Unless you use SQL pass-through features correctly, you may damage your DM document management system. Examples of damage that can occur include the corruption of data in the SQL databases used by DM, the loss of system data maintained by DM, and the inability of DM to recover document objects stored in your DM repository.

Because of the inherent danger associated with the improper use of the PCDSQL object and the methods it supports, Open Text recommends that you incorporate this object into your custom applications only when other DM API objects do not provide the program functionality you require.

Syntax

PCDSQL.methodOrProperty

Usage

PCDSQL supports custom access to any DM libraries. The methods it exposes allow you to submit any structured query language queries to the SQL database. Metadata can be retrieved about that query and various different database objects. New database objects can be created using the tools that PCDSQL supports.

Example

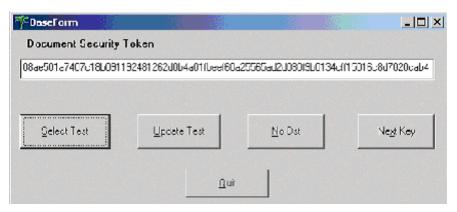
The following example exercises the methods supported by the PCDSQL object. In addition to providing several event-driven forms and the source code behind them, you should also note that the DocInternalClass object has been created as an independent object that allows the document security token (DST) to be shared throughout the entire application.

'These are the Project-wide Global variables. Private msDST As String

```
Private Sub Class_Initialize()
    'msDST will be used to handle the DST.
    msDST = ""
Fnd Sub
```

'Used to set the DST within the DocInternal Class. Public Sub SetDST(sInputString As String) msDST = sInputString End Sub

'Used to retrieve the DST from the DocInternal 'Class.
Public Function GetDST() As String
GetDST = msDST
End Function



'Global Variable declaration section.
'This will be shared throughout this form.
Public oDIC As New DocInternalClass

```
Private Sub cbNextKey_Click()
   NextKeyForm.oNextKey.SetDST( oDIC.GetDST() )
   NextKeyForm.Show
End Sub
```

Private Sub cbNoDST_Click()

```
DSTForm.Show
End Sub
Private Sub cbQuit_Click()
  Dim oForm As Form
  For Each oForm In Forms
    Unload oForm
  Next oForm
End Sub
Private Sub cbSelectTest_Click()
  'Pass the DST from the Base form to 
'the SelectForm's PCDSQL object.
  SelectForm.oSelectSQL.SetDST( oDIC.GetDST()
  SelectForm.Show
End Sub
Private Sub cbUpdateTest_Click()
  'This allows the DST has to make it from
  'one form to another.
  UpdateForm.oUpdateSQL.SetDST( oDIC.GetDST()
  'Call the other form.
  UpdateForm.Show
End Sub
'This is the base form for this application.
Private Sub Form Load()
   Local Variable declarations
  Dim sBuffer As String
  Dim oLogin As New PCDLogin
  Dim nResult As Long
Dim sTempBuf As String
  'Login process.
  nResult = oLogin.AddLogin(0, "MyLibrary",
  nResult = oLogin.AddLogin(0, "MyDomain", _
                            'MyUserID",
"MyPassword")
  'If your API application is licensed by Open
  'to use SQL pass-through functionality when
SQL 'pasṣ-through functionality is disabled for
general
   users, you should replace the previous 2
lines of
   code with the following two lines of code:
     nResult = oLogin.AddLoginLicensed(0, "MyLibrary", ""
"SQLpassthruID", _
"MyDomain", _
```

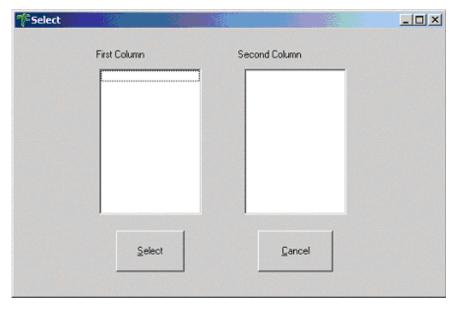
```
"MyUserID", __
"MyPassword", __
"SQLpassthruLicenseID")

nResult = oLogin.Execute()
sBuffer = oLogin.GetDST()

'Get And display the DST.
oDIC.SetDST (sBuffer)
tbDST.Text = oDIC.GetDST()

End Sub

'Programming Note:
'Without calling the oSelectSQL.SetDST, the
'oSelectSQL.Execute call would have failed,
'because without the Document Security Token
'being set within the object, the verification of
'the 'MyUserName' would have failed. The call
'oSelectSQL.SetDST sets the value of the
m_ZDST
'protected Data Member. This holds true
throughout
'this application.
```



Public oSelectSQL As New PCDSQL
Private Sub Cancel_Click()
 Dim nResult As Long

```
'Release the result set all resources
associated
   with the result set and the PCDSQL object.
  nResult = oSelectSQL.ReleaseResults()
  Unload SelectForm
End Sub
Private Sub cbSelect_Click()
'Local Variable Declarations.
  Dim nNumRows As Long
  Dim nColumnCount As Long
  Dim nResult As Long
Dim sTempBuf As String
  'Run a simple Query to return a couple of
  'columns of data.
  nResult = oSelectSQL.Execute("SELECT USER_ID,
                   FULL NAME FROM DOCSADM.PEOPLE")
  'Retrieve column count from the result set. nColumnCount = oSelectSQL.GetColumnCount()
  'Insert the names of the respective columns 
'into the labels above the list boxes
containing
  'result set data.
For i = 1 To nColumnCount
     lblColumnName(i - 1).Caption = _
oselectsol.GetColumnCount(i)
  Next i
  'Get number of rows in the result set.
  nNumRows = oSelectSQL.GetRowCount()
  'Populate the two lists with data returned
  'the result set.
  For i = 1 To nNumRows
     nResult = oSelectSQL.SetRow(i)
    For j = 1 To nColumnCount
lstReturnedData(j - 1).AddItem( _
oselectsQL.GetColumnValue(j))
    Next j
  Next i
End Sub
Private Sub Form Load()
  'Set the default values for the labels above
  'the columns.
  lblcolumnName(0).Caption = "First Column"
lblcolumnName(1).Caption = "Second Column"
  'Set the library that the query will use.
```

```
oSelectSQL.SetLibrary("MyLibrary")

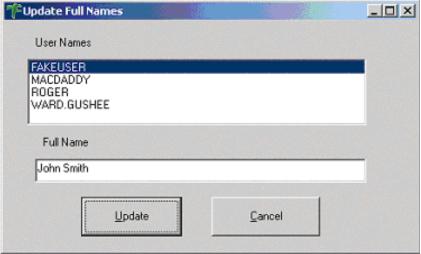
End Sub

Private Sub Form_Unload(Cancel As Integer)

Dim nResult As Long
Dim sBuf As String

'Clear the result set as the object goes
'out of scope.
nResult = oSelectSQL.ReleaseResults

End Sub
```



```
Public oUpdateSQL As New PCDSQL

Private Sub cbCancel_Click()

Dim nResult As Long

'Release the result set for this instance of 'the PCDSQL object.
nResult = oUpdateSQL.ReleaseResults()

Unload UpdateForm

End Sub

Private Sub cbUpdate_Click()

Dim sTempBuf As String
Dim sSQL As String
Dim nRowNumber As Long
Dim nResult As Long
Dim nRowCount As Long
```

```
'Determine which row is being updated.
'Then, load the data from the text box.
  nRowNumber = UpdateForm.lstUserIDs.ListIndex
  nRowNumber = nRowNumber + 1
  nResult = oUpdateSQL.SetRow(nRowNumber)
  sTempBuf = oUpdateSQL.GetColumnValue(1)
  $SQL = "UPDATE DOCSADM.PEOPLE SET FULL_NAME
      -
& txtFullName.Text & "' WHERE USER_ID =
       sTempBuf + "'"
  nResult = oUpdateSQL. Execute(sSQL)
  If nResult <> 0 Then
    sTempBuf = _
   "Native SQL Error from the Update call
         & Str(oUpdateSQL.GetSQLErrorCode())
    MsgBox sTempBuf
  Fnd If
  'Verify that a single row was updated.
nResult = oUpdateSQL.GetRowsAffected()
  If nResult = 1 Then
    oUpdateSQL. Execute( "SELECT USER ID. "
         & "FULL_NAME FROM DOCSADM.PEOPLE" )
  End If
End Sub
Private Sub Form_Load()
  Dim sSQL As String
Dim nNumRows As Long
  Dim nResult As Long`
  Dim sTempBuf As String
  'Set the Library.
  If nResult = 0 Then
    nResult =
oUpdateSQL.SetLibrary("MyNewLibrary")
  Else
    MsgBox ("The SetDST call failed.")
  End If
  'This function does not return a SUCCESS/
FAILURE
   value. Instead, it returns the numeric
value of
   the DB Vendor.
  If nResult = 0 Then
    nResult = oUpdateSQL.GetDBVendor()
  Else
    MsgBox ("SetLibrary call failed")
  End If
  'This SQL statement retrieves two columns. nResult = oUpdateSQL.Execute( "SELECT " _
```

```
& "USER_ID, FULL_NAME FROM DOCSADM.PEOPLE")
   'Load put data from the SELECT into the list
Box.
'Then, determine which list box item is in
focus.
  nNumRows = oUpdateSQL.GetRowCount()
  'Fill up the ListBox with result set data.
For i = 1 To nNumRows
nResult = oUpdateSQL.SetRow(i)
'Place the User ID in the buffer.
sTempBuf = oUpdateSQL.GetColumnValue(1)
     UpdateForm.lstUserIDs.AddItem(sTempBuf)
  'Select the first element in the listbox. lstUserIDs.Selected(0) = True
   'Match the item selected in the list box
with
  the data in the textbox.

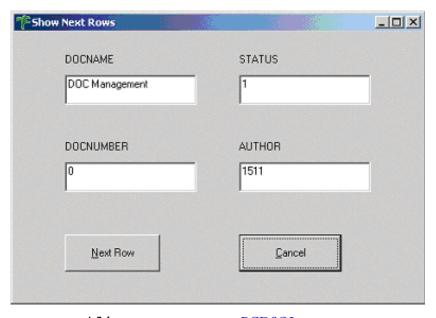
nResult = oUpdateSQL.SetRow(1)
  txtFullName.Text =
oUpdateSQL.GetColumnValue(2)
End Sub
Private Sub lstUserIDs_Click()
  Dim nListIndex As Long
  Dim sTempBuf As String
  Dim nRowIndex As Long
  nListIndex = lstUserIDs.ListIndex
   'The SQL row is one larger than the list
index,
   'so, add one to set the SQL row index.
   nRowIndex = nListIndex + 1
  nResult = oUpdateSQL.SetRow(nRowIndex)
   'This is the full name column value.
```

```
sTempBuf = oUpdateSQL.GetColumnValue(2)
txtFullName.Text = sTempBuf
End Sub
```



```
Dim sDST As String
Dim oDSTDIC As New DocInternalClass
Dim odstlogin As New PCDLogin Public odstsQL As New PCDSQL
Private Sub cbCancel_Click()
  Dim nResult As Long
  sDST = ""
  nResult = oDSTSQL.ReleaseResults()
  Unload DSTForm
End Sub
Private Sub cbDoQuery_Click()
  nResult = oDSTSQL.Execute( "SELECT DOCNAME, "
       & "DOCNUMBER, STATUS, AUTHOR from " _ & "DOCSADM.PROFILE")
  If nResult = 0 Then
    NextRowForm.sNRDST = oDSTDIC.GetDST()
    NextRowForm.Show
  Else
  MsgBox ("Query Failed")
End If
End Sub
Private Sub cbSetDST_Click()
```

```
Dim nResult As Long
  'Do mandatory login process in order to get
  nResult = oDSTLogin.AddLogin(0, "MyLibrary",
  nResult = oDSTLogin.AddLogin(0, "MyDomain",
                                "MyUser",
"MyPassword")
  nResult = oDSTLogin.Execute()
  sDST = oDSTLogin.GetDST()
  'Get and display the DST. oDSTSQL.SetDST(sDST) oDSTDIC.SetDST(sDST)
  'Show the DST in the Text box.
  txtDST.Text = sDST
End Sub
Private Sub Form_Load()
    txtDST.Text = "No DST yet."
End Sub
```



Public onrsqL as New PCDSQL Public nNumRows As Long
Public nNumCols As Long
Public nRowsViewed As Long

```
Private Sub cbCancel Click()
  Dim nResult As Long
  'Tidy up by releasing the result set.
  nResult = onrsol.ReleaseResults()
  'Close this form.
  Unload NextRowForm
End Sub
Private Sub cbNextRow_Click()
  Dim nResult As Long
  'Increment the nRowsViewed count.
  nRowsViewed = nRowsViewed + 1
  'Go to the next row.
  nResult = oNRSOL.NextRow()
  For i = 1 To nNumCols
    lblResultData(i - 1).Caption =
                        onrsqL .GetColumnName(i)
    txtResultData(i - 1).Text =
                        óNRSOL . GetColumnValue(i)
  Next i
  'If at end of record set, deactivate the
button.
  If nRowsViewed = nNumRows Then
   cbNextRow.Enabled = False
  End If
End Sub
Private Sub Form_Load()
  Dim nResult As Long
Dim sTempBuf As String
  Dim nRowsAffected As Long
 'If the Query is successful, place the first
  'row into the text boxes.
If nResult = 0 Then
    nNumRows = oNRSOL.GetRowCount()
    'If there are more than one row then lets
do it.
    If nNumRows > 0 Then
      nNumCols = oNRSQL.GetColumnCount()
      'Add the appropriate elements to the 'control array.
For i = 1 To nNumCols
```

```
lblResultData(i - 1).Caption = _
            onrsql GetColumnName(i)
        txtResultData(i - 1).Text = _
             onrsqL.GetColumnValue(i)
      Next i
    End If
  End If
  'Check the number of rows coming back.
  'If more than one, then enable the
  'cbNextRow button.
  If nNumRows > 1 Then
    cbNextRow.Enabled = True
    cbNextRow.Enabled = False
  End If
  nRowsViewed = 1
End Sub
```



```
Public oNextKey As New PCDSQL
Private Sub cbCancel_Click()
  Unload NextKeyForm
End Sub
Private Sub cbNextKey_Click()
  Dim sResult As String
  sResult = oNextKey.GetNextKey("")
  txtNextKey.Text = sResult
End Sub
```

See the following methods:

Execute

GetColumnCount

GetColumnName

GetColumnValue

GetDBVendor

GetNextKey

GetRowCount

GetRowsAffected

GetSQLErrorCode

NextRow

ReleaseResults

SetDST

SetLibrary

SetRow

See the following properties:

PCDTrusteeList

Use PCDTrusteeList to manipulate the trustee list associated with DM.

Syntax

PCDTrusteeList. methodOrProperty

Example

The following example shows how to create an instance of the PCDTrusteeList object.

Related Items

See the following methods:

```
AddTrustee
BeginIter
DeleteTrustee
GetCurrentTrusteeFlags
GetCurrentTrusteeName
GetCurrentTrusteeRights
```

GetSize GetTrusteeIndex GetTrusteeRights NextTrustee SetTrusteeRights

See the following properties:

```
ErrDescription
ErrNumber
```

Chapter



4

DM API Methods and Properties

In This Chapter

This chapter describes the methods and properties associated with the objects that the DM supports, including their syntax, usage, and other related information.

AddLogin

Use this method to set the logon information that gets passed to the DM Server. The DM Server authenticates the logon information when the Execute() method is called.

Syntax

```
PCDLogin.AddLogin( intNetworkType, _
                   strUnitName, _
                   strUserName,
                    strPassword )
```

Parameters

intNetworkType	The network type of the network alias. values are:	
	Library Logon (No Network) 0 Netware Bindery 1 Netware NDS 2 Microsoft Network 8	
strUnitName	The DM library name, NetWare server name, NDS tree name, or Windows domain, workgroup, or server name.	
strUserName	The user name for the specified unit.	
strPassword	The password for the specified user.	

Usage

Before you do a call to AddLogin, you need to get the logon libraries available on the DM Server. (See PCDGetLoginLibs.)

Example

The following is a simple example that uses a user name with an Attaché password.

```
'Ayailable Logon types for the DM Server,
'dimensioned as constants.

Const iLibraryLogin As Integer = 0

Const iNetWareBindery As Integer = 1

Const iNetWareNDS As Integer = 2

Const iMicrosoftNetwork As Integer = 8
```

```
'Create an instance of the logon object.
pClient =
Server.CreateObject("PCDClient.PCDLogin")
'Use the Attaché password to log on to the
'LegalLaw library.
hr = pClient.AddLogin iLibraryLogin, _
"LegalLaw", "t_rex", "roar"
'The DM Server authenticates the logon. hr = pClient.Execute()
The following example captures the logon information a user
enters on a form. Again, it uses an Attaché password.
Private Type LOGIN_TYPE
LIBRARY_LOGIN AS Integer
NETWORK_BINDERY_AS Integer
  NETWORK_NDS As Integer
  BANYAN_VINES As Integer
  MS_NETWORD As Integer
End Type
'Module scope variables.
Dim MyLoginType As LOGIN_TYPE
Private Sub Command1_Click()
   'Set up MyLOGIN_TYPE with logons that the
   'DM API supports.
  MyLoginType.LIBRARY_LOGIN
  MyLoginType.NETWORK_BINDERY = 1
MyLoginType.NETWORK_NDS = 2
                                      = 8
  MýLoginTýpe.MS_NETWORK
   'Create an instance of the logon object.
  Dim pClient As PCDLogin
  Set pClient = New PCDLogin
   'Get the Library, User Name, and Password
from
  the form.
Dim Library As String
Dim User As String
  Dim Password As String
  Library = txtLib.Text
  User = txtUser.Text
  Password = txtPassword.Text
   'Use the Attaché password to log on to 'the indicated library.
  Dim rc As Long rc = pClient.AddLogin( _
```

```
MyLoginType.LIBRARY_LOGIN, _
                       Library, _
                       User, _
Password )
   'The DM Server authenticates
  'the logon.
  rc = pClient.Execute
  'Check the return code for success. If rc <\!\!> 0 Then MsgBox "A problem occurred."
  'Clean up.
Set pClient = Nothing
End Sub
Related Items
See the following objects:
PCDLogin
PCDGetLoginLibs
See the following methods:
AddLoginLicensed
Execute
GetAliasList
GetDOCSUserName
GetDST
GetFailedLoginList
GetLoginLibrary
GetPrimaryGroup
SetDST
See the following properties:
```

AddLoginLicensed

The "Allow SQL Passthrough" setting in the DM system parameter settings dialog can be used to deny access to the SQL passthrough functions that the PCDSQL object supports. However, commercial applications by third-party partners of Open Text can receive a license key that allows their applications to access the PCDSQL object regardless of the SQL passthrough setting.

Use this method to set the logon information that gets passed to the DM Server if the API application is licensed to use the PCDSQL object even if the "Allow SQL Passthrough" option has been disabled by the DM administrator. The DM Server authenticates the logon information when the PCDLogin.Execute() method is called.

Other than the two additional input parameters, this object functions in the same way that the AddLogin() method functions.

Syntax

```
PCDLogin.AddLoginLicensed( intNetworkType, _ strUnitName, _ strUserName, _ strPassword , _ strApplicationID, _ strAppLicenseKey)
```

Parameters

intNetworkType	The network type of the network alias values are:	. Valid
	Library Logon (No Network) ()
	NetWare Bindery	L
	NetWare NDS	2
	Microsoft Network 8	3
strUnitName	The DM library name, NetWare serve name, NDS tree name, or Windows do workgroup, or server name.	
strUserName	The user name for the specified unit.	
strPassword	The password for the specified user.	
strApplicationID	The application ID that was assigned Open Text	by
strAppLicenseKey	The application key that was assigned Open Text	d by

Usage

Before you do a call to AddLoginLicensed, you need to get the logon libraries available on the DM Server. (See PCDGetLoginLibs.)

Example

The following is a simple example that uses a user name with an Attaché password.

```
'The API application method must receive an
'application ID and a license key from Open
Text in order to use this login method.
Dim oPCDLogin As new PCDLogin
Dim lngResult As Long
lngResult = oPCDLogin.AddLoginLicensed( 0 , _
                  strMyLibrary, "", "", _
                  strAppID, strLicenseKey )
lngResult = oPCDLogin.AddLoginLicensed( 0 ,
                 strMyDomain, strMyUserID, _
```

See the following objects:

PCDLogin PCDGetLoginLibs

See the following methods:

AddLogin Execute GetAliasList GetDOCSUserName GetDST GetFailedLoginList GetLoginLibrary GetPrimaryGroup SetDST

See the following properties:

AddOrderByProperty

AddOrderByProperty allows you to set the order that search results are returned to you.

Syntax

```
PCDLookup.AddOrderByPropery( strPropName, _
                             blnAscending )
PCDRecentDoc.AddOrderByProperty( strPropName, _
                                 blnAscending )
PCDSearch.AddOrderByPropery( strPropName, _
                             blnAscending )
```

Parameters

The name of the property by which to strPropName

order the results of a search.

blnAscending A Boolean flag indicating whether to

> sort on the name property in ascending or descending order. FALSE (or zero) sorts in descending order. Any other value (not FALSE)

sorts in ascending order.

Returns

Returns an HRESULT to receive the result of the call. S OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The following example uses the AUTHOR_ID value to display search results in ascending order.

```
'Save the document security token (DST) from
the
'DM Server so the search can be done.
strDST = objLogin.GetDST
```

```
'Create the search object.
Dim pSearch As New PCDSearch
'Set the document security token (DST).
pSearch.SetDST strDST
'Add a search Library to search.
pSearch.AddSearchLib "LegalLaw"
'Set which form to use for the search.
pSearch.SetSearchObject "def_qbe"
'Add properties you want the search to return.
pSearch.AddReturnProperty "docname"
pSearch.AddReturnProperty "docnum"
pSearch.AddReturnProperty "AUTHOR_ID"
'Sort the search results by AUTHOR_ID in
'ascending order.
pSearch.AddOrderByProperty "AUTHOR_ID", TRUE
'Execute the Search.
pSearch.Execute
Related Items
See the following objects:
PCDLookup
PCDRecentDoc
PCDSearch
See the following properties:
ErrDescription
ErrNumber
```

AddProperty

Use this method to add a property/value pair to a property value list.

Syntax

PCDPropertyList.AddProperty(strPropName, _ vntPropVal)

Parameters

The string that identifies the name of the strPropName

property to add to the list.

vntPropVal The VARIANT that contains the value of the

property that is to be added to the list.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example for the PCDLookup Object uses the AddProperty method.

Related Items

See the PCDPropertyList object.

See the following methods:

DeleteProperty **GetPropertyIndex**

See the following properties:

AddReturnMetaProperty

The AddReturnMetaProperty method allows you to retrieve information about the data requested in a search. For example, your custom application can use AddReturnMetaProperty to determine if an object returned in your search result set is supposed to be visible to the user or not.

The available metadata properties are %PropertyName, %Title, %Visible, and %Data. Each row in the metadata property list offers the following information:

- %PropertyName is the name of the property as it is identified on the base form. It can have the value "_UNKNOWN_" if there is no corresponding property on the base form.
- %Title is the title of this column. The %Title property often contains the prompt that describes the data when it is presented to the user. It can be blank.
- %Visible is a flag indicating whether or not this column should be displayed to the user.
- * MData is the value of this column in the current row of the data (as opposed to the metadata). For example, %PropertyName could return "AUTHOR_ID", and %Data could return "J_SMITH".

Note: For compatibility purposes, AddReturnMetaProperty also supports these property names as an alternative to the preferred terms shown above: PROPNAME, TITLE, VISIBLE, and DATA.

Syntax

```
PCDRecentDoc.AddReturnMetaProperty(
strPropName )
PCDSearch.AddReturnMetaProperty( strPropName )
```

Parameter

strPropName

The name of the property to be returned in the results. This should be one of the four properties listed above.

Returns

Returns a VARIANT return value that contains the value of the requested property.

Related Items

See the following objects:

PCDRecentDoc **PCDSearch**

See the following properties:

AddReturnProperty

Use this method to add a property to the list of objects that you want a search to return to you. No data is returned by default. Your search will return no data unless you call AddReturnProperty at least one time before you execute your search.

Syntax

```
PCDRecentDoc.AddReturnProperty( strPropName )
PCDSearch.AddReturnPropery( strPropName )
```

Parameter

strPropName

The name of the property to be returned in the results.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The following example shows how to add return properties as part of the execution of a search.

```
pSearch.SetDST( strDST )
'Add the Library you want to search.
pSearch.AddSearchLib( "LegalLaw" )
'Specify the form to use for this search.
pSearch.SetSearchObject( "def_qbe" )
'Add the properties you want the search
'to return.
pSearch.AddReturnProperty "docname"
pSearch.AddReturnProperty "docnum"
pSearch.AddReturnProperty "AUTHOR_ID"
'Execute the Search.
pSearch. Execute
```

See the following objects:

PCDRecentDoc PCDSearch

See the following properties:

AddSearchCriteria

Use this method to add a property name with search criteria to the search.

Syntax

```
PCDGetDoc.AddSearchCriteria(strPropName, _strCriteria)

PCDLookup.AddSearchCriteria(strPropName, _strCriteria)

PCDPutDoc.AddSearchCriteria(strPropName, _strCriteria)

PCDRecentDoc.AddSearchCriteria(strPropName, _strCriteria)

PCDRecentDoc.AddSearchCriteria(strPropName, _strCriteria)

PCDSearch.AddSearchCriteria(strPropName, _strCriteria)
```

Parameters

strPropName The name of the property on which to base

the search.

strCriteria The property value on which to search.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The following example adds search criteria to a search. The user has entered a Document number and Author ID for which to search.

```
.
.
'Save the document security token (DST) from the
'DM Server so the search can execute.
```

```
DST = pClient.GetDST()
'Now that you have the DST, create a search
object.
pSearch = Server.CreateObject( _
    "PCDClient.PCDSearch")
'Pass the DST to the search object.
pSearch.SetDST(DST)
'Add a search Library to the search.
pSearch.AddSearchLib("LegalLaw")
'Specify the form to use for this search.
pSearch.SetSearchObject("def_qbe")
'Add the return properties you want returned.
pSearch.AddReturnProperty("docname")
pSearch.AddReturnProperty("docnum")
pSearch.AddReturnProperty("AUTHOR_ID")
'Before setting search criteria, get the
'values from the form the user submitted.
AuthorValue = txtAuthor.Text
DocnumValue = CInt( txtDocNum.Text )
'Add whatever search criteria you want.
pSearch.AddSearchCriteria(%MAXDAYS", "30")
If (AuthorValue <> "") Then
  pSearch.AddSearchCriteria(_
                   "AUTHOR_ID", AuthorValue)
If (DocnumValue <> "") Then
  pSearch.AddSearchCriteria ("docnum",
DocnumValue)
'Execute the search.
psearch. Execute
```

See the following objects:

PCDGetDoc

PCDLookup

PCDPutDoc

PCDRecentDoc

PCDSearch

See the following properties:

ErrDescription

ErrNumber

AddSearchLib

Use this method to add a library name to the list of libraries to search. Your search will return no data unless you call AddSearchLib at least one time before you execute your search.

Syntax

```
PCDLookup.AddSearchLib( strLibName )
PCDRecentDoc.AddSearchLib( strLibName )
PCDSearch.AddSearchLib( strLibName )
```

Parameter

strLibName

The name of the library to search. This name has to match a value in the LIBRARY_NAME column of the REMOTE_LIBRARIES table of the DM library where the user is currently logged on.

Returns

Returns an HRESULT to receive the result of the call. S OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The following adds a search library from a library selected on a form the user has submitted.

```
'Save the document security token (DST) from
the
'DM Server so the search can execute.
strDST = pClient.GetDST()
'Now that you have the DST, create a search
object.
pSearch = Server.CreateObject( _
                        "PCDClient.PCDSearch")
```

```
'Pass the DST to the search object.
pSearch.SetDST( DST )

'Get the search library from the form.
searchLib = txtLibrary.Text

'Add the Search Library to the Search object.
pSearch.AddSearchLib(searchLib)

'Execute the search.
pSearch.Execute
.
.
```

See the following objects:

PCDLookup PCDRecentDoc PCDSearch

See the following properties:

AddTrustee

Use this method to add a trustee to the trustee list. If there is already a trustee in the list that matches the trustee name and flags, the rights for the existing entry will be updated rather than a new entry added.

Syntax

PCDTrusteeList.AddTrustee(strTrusteeName, _ intTrusteeFlags. intTrusteeRights)

Parameters

strTrusteeName The (BSTR) input string with the name of the

trustee.

intTrusteeFlags Input integer with the trustee flags. Supported

values are as follows:

PCD_TRUSTEE_UNKNOWN_TYPE = 0 PCD_TRUSTEE_GROUP_TYPE = 1 PCD_TRUSTEE_PERSON_TYPE = 2

intTrusteeRights Input integer with the trustee rights. These

> values are taken from the ACCESSRIGHTS column in the SECURITY table of the SQL

database.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The section titled Getting and Updating Trustee Information in Chapter 1 illustrates the use of the AddTrustee method.

Related Items

See the PCDTrusteeList object.

See the following methods:

BeginIter
DeleteTrustee
GetCurrentTrusteeFlags
GetCurrentTrusteeName
GetCurrentTrusteeRights
GetSize
GetTrusteeIndex
GetTrusteeRights
NextTrustee

See the following properties:

AddUserFilterCriteria

Use this method to add a property name with user filter criteria to a lookup.

Syntax

```
PCDLookup.AddUserFilterCriteria( strPropName,
                                  strCriteria
)
```

Parameters

strPropName The name of the property on which to base the

search.

strCriteria The property value on which to search.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in the discussion of the PCDLookup object illustrates the use of the AddUserFilterCriteria method.

Related Items

See the PCDLookup object.

See the following properties:

BeginGetBlock

Use this method to tell the object that you are beginning a block of "Get" operations so that it will hold the results until EndGetBlock is called. Normally, the result set is released and recreated on each call to, for example, GetPropertyValue. The results remain cached on the server, but the interface is normally released to prevent it from timing out. If you are doing a block of operations such as GetPropertyValue, with no intervening user interaction or other operations that could cause an indefinite wait between calls, you can use BeginGetBlock and EndGetBlock to improve performance.

Syntax

PCDRecentDoc.BeginGetBlock()

PCDSearch.BeginGetBlock()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDRecentDoc PCDSearch

See the following method: EndGetBlock.

See the following properties:

BeginIter

Use this method to position the current pointer to the first position in a list. This method begins a BeginIter()/ NextProperty(), a BeginIter/NextRow, or a BeginIter()/ NextTrustee() loop.

Syntax

```
PCDPropertyList.BeginIter()
PCDPropertyLists.BeginIter()
PCDTrusteeList.BeginIter()
```

Returns

It returns S_OK as an HRESULT if it successfully positioned on a list entry, and returns PCD_S_END_OF_LIST if the list is empty. JavaScript, Visual Basic, and VBScript return this as a function value. This value is also available in the ErrNumber property.

Example

The BeginIter method is used in the Example for the PCDPropertyList object.

Related Items

See the following objects:

PCDPropertyLists PCDPropertyLists PCDTrusteeList

See the following methods:

NextProperty NextRow NextTrustee

See the following properties:

BytesRead

This property is always set during a Read operation. It contains the number of bytes returned by the call to the Read method.

Syntax

PCDGetStream.BytesRead()

Returns

Returns the number of bytes read during a Read operation. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The section titled Fetching a DM Document Object in Chapter 1 illustrates how to use this method.

Related Items

See the PCDGetStream object.

See the following methods:

GetPropertyValue

Read

Seek

See the following properties:

BytesWritten

This property is always set during a Write operation. It contains the number of bytes written to disk by the call to the Write method.

Syntax

PCDPutStream.BytesWritten()

Returns

Returns the number of bytes written during a Write operation. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in PCDPutDoc illustrates the use of this object.

Related Items

See the PCDPutStream object.

See the following methods:

GetPropertyValue Write

See the following properties:

ClearOrderByProperties

Use this method to clear properties used to order results from a lookup.

Syntax

PCDLookup.ClearOrderByProperties()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in the discussion of the PCDLookup object illustrates how you can use this method in your custom applications.

Related Items

See the PCDLookup object.

See the following properties:

ClearUserFilterCriteria

Use this method to clear user filter criteria from a lookup.

Syntax

PCDLookup.ClearUserFilterCriteria()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in the discussion of the PCDLookup object illustrates the use of this method.

Related Items

See the PCDLookup object.

See the following properties:

Clone

This method clones a duplicate copy of the current PCDEnumPropertyLists object.

Syntax

PCDEnumPropertyLists.Clone()

Returns

This object returns a pointer to the newly cloned PCDEnumPropertyLists object.

Related Items

See the PCDEnumPropertyLists object.

See the following properties:

ColumnCount

Use this method to return the number of columns in the return data. This will always be equal to or greater than the number of times AddReturnProperty is called. (In some situations, the DM API returns extra columns by default, which can increase the ColumnCount value.)

Syntax

PCDLookup.ColumnCount()
PCDRecentDoc.ColumnCount()
PCDSearch.ColumnCount()

Returns

Returns the column count as an integer.

Example

The Example in the discussion of the PCDLookup object illustrates the use of this method.

Related Items

See the following objects:

PCDLookup PCDRecentDoc PCDSearch

See the following properties:

Create

Use this method to create the object that has been identified by the SetObjectType method.

Syntax

PCDDocObject.Create()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in the discussion of the PCDPutDoc object illustrates the use of this method.

Related Items

See the PCDDocObject object.

See the following methods:

Delete Fetch Update

See the following properties:

Delete

Use this method to delete the DM object described by the information that has been set.

Syntax

PCDDocObject.Delete()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDDocObject object.

See the following methods:

Create Fetch Update

See the following properties:

DeleteProperty

Use this method to delete a property from the property list based on its index (relative) position in the list. DeleteProperty uses a zero-based index. After an item is deleted from the list, the list repacks itself.

Syntax

PCDPropertyList.DeleteProperty(lngNdx)

Parameter

IngNdx

The index value that identifies the relative position of the property to delete.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

Indexes in the list are not guaranteed to match the position in which they were first added to the list. For example, assume you have a PCDPropertyList of four items, with index values from 0 to 3. Perhaps you want to delete the item with index value 1 and update the item with index value 3. After you delete the first item, the list repacks itself. Now the item you want to update has an index value of 2, not 3. For this reason, you should use the GetPropertyIndex method to determine the index item to delete.

Example

See the Example in the discussion of the PCDPropertyList object for sample code that uses the DeleteProperty method.

Related Items

See the PCDPropertyList object.

See the following methods:

AddProperty
BeginIter
GetCurrentPropertyName
GetCurrentPropertyValue
GetPropertyIndex
NextProperty

See the following properties:

DeleteTrustee

Use this method to delete from the list of trustees a trustee at a given offset.

Syntax

PCDTrusteeList.DeleteTrustee(lngNdx)

Parameter

IngNdx

An unsigned long integer that is set to the offset into the list of trustees that identifies the trustee that is to be deleted.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDTrusteeList object. See the following properties:

ErrDescription

ErrNumber

EndGetBlock

EndGetBlock informs the server that you finished retrieving a series of items. This allows the DM API to release the result set to minimize the possibility of time outs in other operations that may be pending.

Syntax

PCDRecentDoc.EndGetBlock()
PCDSearch.EndGetBlock()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDRecentDoc PCDSearch

See the BeginGetBlock method. See the following properties:

ErrDescription

This property provides a text description of the status from the last call. All DM API objects inherit this property.

Syntax

PCDError.ErrDescription

Returns

Returns a string value (BSTR) to receive the error description. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

This reference guide contains many examples that show the use of the ErrDescription property, starting with the Providing Library Access section in Chapter 1.

Related Items

See the PCDError object.

See the ErrNumber property.

ErrNumber

This property provides a numeric status that identifies any error condition resulting from the last call.

Syntax

PCDError.ErrNumber

Returns

Returns a pointer to a long integer to receive the numeric status. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

This reference guide contains many examples that show the use of the ErrNumber property, starting with the The Logon Process section in Chapter 1.

Related Items

See the PCDError object.

See the ErrDescription property.

Execute

The Execute method is supported for use in many API objects. After you set any necessary criteria or other values (for example, logon information or a search form), use this method to execute the request on the DM Server.

Syntax

PCDASPFileUpload.Execute()

PCDGetDoc.Execute()

PCDGetLoginLibs.Execute()

PCDLogin.Execute()

PCDLookup.Execute()

PCDPropertyLists.Execute()

PCDPutDoc.Execute()

PCDRecentDoc.Execute()

PCDSearch.Execute()

PCDSQL.Execute(strSQLStatement)

Parameter

strSQLStatement

A valid SQL statement that is correctly formatted to run against the current DM library. The syntax used must conform to the requirements of your SQL software.

This parameter is only supported within the PCDSQL object. The Execute method takes no parameters when used with the other DM API objects that support it.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

This reference guide contains many examples that show the use of the Execute method, starting with the The Logon Process section in Chapter 1.

Related Items

See the following objects:

PCDGetDoc

PCDGetForm

PCDGetLoginLibs

PCDLogin

PCDLookup

PCDPropertyLists

PCDPutDoc

PCDRecentDoc

PCDSearch

PCDSQL

See the following properties:

ErrDescription

ErrNumber

Fetch

Use this method to retrieve information about an object.

Syntax

PCDDocObject.Fetch()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

Several examples in this reference guide use the Fetch method. The section titled Fetching a DM Document Object in Chapter 1 is particularly illustrative.

Related Items

See the PCDDocObject object.

See the following methods:

Create

Delete

Update

See the following properties:

ErrDescription

ErrNumber

FetchTrustees

Use this method to fetch trustees from the DM Server.

Syntax

PCDDocObject.FetchTrustees()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The following example illustrates how you can use the FetchTrustees method when managing trustee rights on your document objects.

```
Private Sub cmdAddTrustees Click()
  'This subroutine demonstrates adding
trustees
  'to a document. You can add trustees in two
  'wavs: You can use the SetTrustee method
that
  'DocObject supports, or you can use the
  'AddTrustee method that the PCDTrusteeList
  'supports. This example demonstrates the
first
  'method.
  'Use the following flags when adding
trustees:
  '0 = Unknown (Let the server figure it
out.)
  '1 = Group
  '2 = User
  'Create the PCDDocObject. Note that late
  'binding is used to create the PCDDocObject
```

```
'because the HasRight method will bomb if
  'early binding is used.
  lstResultSet.Clear
  Dim obiDOC As Object
  Set objDOC = CreateObject( _
      "PCDClient.PCDDocObject")
  'Create the property list object.
 Dim objPropList As New PCDPropertyList
  'Set the library.
  objDOC.SetProperty "%TARGET_LIBRARY", strLib
  'Set the DST.
  objDOC.SetDST strDST
  'Set the Form.
 objDOC.SetObjectType "DEF_PROF"
  'Identify the document object whose trustee
  'properties are to be updated.
 objDOC.SetProperty "%OBJECT_IDENTIFIER", _
      txtDocNum.Text
  'Create variables to store security data.
  Dim LDefaultRights As Long
  Dim LEffectiveRights As Long
  Dim LAccessControl As Long
  'Get the document.
  objDOC.Fetch
  'Check for any errors.
  If obiDOC.ErrNumber <> 0 Then
    lstResultSet.AddItem "Unable to fetch
doc: "
        & txtDocNum.Text
    GoTo bye
  End If
  'Retrieve properties from the fetched
document.
```

```
Set objPropList = objDOC.GetReturnProperties
  'Store the results.
  'Does the document have security?
                             0 = no; 1 = ves
  LDefaultRights = _
      objPropList.GetPropertyValue("SECURITY")
  'Determine the effective rights of the user
  'who is currently logged on.
  LEffectiveRights = _
      objPropList.GetPropertyValue( _
      "%EFFECTIVE RIGHTS")
  'Determine whether the user who is
currently
  'logged on has rights to edit the security
  'settings of this document: 0 = no; 1 = yes
  LAccessControl = objDOC.HasRight( _
      "%PR_ACCESS_CONTROL", LEffectiveRights)
  If (LAccessControl) Then
    'Show user the list of trustees.
    obiDOC.FetchTrustees
    'Update the trustees.
    Dim sTrustee As String
    sTrustee = InputBox("Enter user or group
        & "to add as a trustee to document "
        & txtDocNum.Text, "Add Trustee",
strUser)
    objDOC.SetTrustee sTrustee, 0, 128
    objDOC. UpdateTrustees
    If (objDOC.ErrNumber <> 0) Then
      lstResultSet.AddItem
          "Unable to update trustees."
      GoTo bye
```

```
End If
   objDOC. Update
  Else
    lstResultSet.AddItem "You do not have " _
       & "permission to edit the security of
       & "this document: " & txtDocNum.Text
  End If
 lstResultSet.AddItem "Trustees were
updated."
 bye:
    Set objPropList = Nothing
    Set objDOC = Nothing
```

End Sub

Related Items

See the following objects:

PCDDocObject PCDTrusteeList

See the following properties:

GetAliasList

Use this method to get a pointer to the PCDNetAliasList object that contains a list of all the network aliases that the DM Server has validated.

Syntax

PCDLogin.GetAliasList()

Returns

Returns a pointer to a PCDNetAliasList object. Check the ErrNumber property for any errors that may have occurred.

Example

The GetAliasList method is used in the section about Providing Library Access in Chapter 1.

Related Items

See the following objects:

PCDLogin PCDNetAliasList

See the following methods:

Execute GetFailedLoginList

See the following properties:

GetAt

Use this method to get a Library name string at a specific index in the list of logon libraries.

Syntax

PCDGetLoginLibs.GetAt(lngIndx)

Parameters

lngIndx

A long integer that identifies the index value of the library being requested.

Example

The section that discusses Getting a List of Available Libraries in Chapter 1 shows how you can use the GetAt method in your applications.

Returns

Returns a pointer to a VARIANT to receive the library name string. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDGetLoginLibs object.

See the following methods:

Execute GetSize

See the following properties:

GetColumnCount

The GetColumnCount method retrieves the number of SQL columns in a result set. It references the current result set within the PCDSQL object.

Syntax

PCDSQL.GetColumnCount()

Returns

The GetColumnCount method returns a long integer that shows the number of columns in the current result set. If an INSERT or UPDATE SQL command is run, then GetColumnCount returns the number of columns in the insert or update call.

Example

The example in the discussion of the PCDSQL object in Chapter 3 illustrates the use of GetColumnCount.

Related Items

See the PCDSQL object.

See the following properties:

GetColumnName

This method retrieves the name of the specified column in the current SQL result set.

Syntax

PCDSQL.GetColumnName(lngColNum)

Parameter

lngColNum

A long integer that corresponds to the column number of the desired column name.

Returns

The GetColumnName method returns a variant variable that contains the name of the SQL column of interest. GetColumnName returns an empty variant when asked to return erroneous data.

Example

The example in the discussion of the PCDSQL object in Chapter 3 illustrates the use of GetColumnName.

Related Items

See the PCDSQL object.

See the GetSQLErrorCode method.

See the following properties:

GetColumnValue

This method retrieves the data contents of the specified column in the current SQL result set.

Syntax

PCDSQL.GetColumnValue(lngColNum)

Parameter

lngColNum

A long integer that corresponds to the column number of the desired column value.

Returns

The GetColumnValue method returns a variant variable that contains the data contained in the SQL column of interest. GetColumnValue returns an empty value when asked to return erroneous data.

Example

The example in the discussion of the PCDSQL object in Chapter 3 illustrates the use of GetColumnValue.

Related Items

See the PCDSQL object.

See the following properties:

GetCurrentPropertyName

Use this method to get the name of the property to which the current property pointer points. The PCDPropertyList object maintains a current property pointer so that you can iterate through the entire list of stored properties without knowing their names. The PCDPropertyLists object also supports this method as a way to access properties in a collection of property lists.

Syntax

PCDPropertyList.GetCurrentPropertyName()

PCDPropertyLists.GetCurrentPropertyName()

Returns

Returns a string (BSTR) variable that contains the name of the property at the current position in the list.

Example

The Example in the discussion of the PCDPropertyList object shows how you can use this method.

Related Items

See the following objects:

PCDPropertyLists PCDPropertyLists

See the following properties:

GetCurrentPropertyValue

Use this method to get the value of the property to which the current property pointer points. The PCDPropertyList maintains a current property pointer so that you can iterate through the entire list of stored properties without knowing their names. The PCDPropetyLists object also supports this method as a way to access property values in a collection of property lists.

Syntax

PCDPropertyList.GetCurrentPropertyValue()

PCDPropertyLists.GetCurrentPropertyValue()

Returns

Returns a VARIANT value with the contents of the current property list element.

Example

The Example contained in the PCDPropertyList object presentation in Chapter 3 shows how you can use the GetCurrentPropertyName method in your custom applications.

Related Items

See the following objects:

PCDPropertyLists PCDPropertyLists

See the following properties:

GetCurrentTrusteeFlags

Use this method in a BeginIter/NextTrustee loop to get the trustee flags set for the current entry in the list.

Syntax

PCDTrusteeList.GetCurrentTrusteeFlags()

Returns

Returns a pointer to an integer to receive the trustee flags that have been set. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

GetCurrentTrusteeFlags supports the following values:

Trustee Flag	Value
PCD_TRUSTEE_UNKNOWN_TYPE	0
PCD_TRUSTEE_GROUP_TYPE	1
PCD_TRUSTEE_PERSON_TYPE	2

Related Items

See the PCDTrusteeList object.

See the following methods:

BeginIter GetCurrentTrusteeName GetCurrentTrusteeRights NextTrustee

See the following properties:

GetCurrentTrusteeName

Use this method in a BeginIter/NextTrustee loop to get the trustee name for the current entry in the list.

Syntax

PCDTrusteeList.GetCurrentTrusteeName()

Returns

Returns a string (BSTR) with the trustee name. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDTrusteeList object.

See the following methods:

BeginIter GetCurrentTrusteeFlags GetCurrentTrusteeRights NextTrustee

See the following properties:

GetCurrentTrusteeRights

Use this method in a BeginIter/NextTrustee loop to get the trustee rights for the current entry in the list.

Syntax

PCDTrusteeList.GetCurrentTrusteeRights()

Returns

Returns a pointer to an integer to receive the trustee rights for the current trustee. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDTrusteeList object.

See the following methods:

BeginIter Get Current Trustee Flags**GetCurrentTrusteeName NextTrustee**

See the following properties:

GetDBVendor

The GetDBVendor method retrieves the numeric identifier associated with the SQL database software in use with the current DM library.

Syntax

PCDSQL.GetDBVendor()

Returns

GetDBVendor returns a long integer that identifies the type of the current SQL database software. The following table lists the currently supported SQL software products and their associated identification numbers:

Identifier	Name of SQL Software
	Microsoft SQL Server
5	Oracle Database Server

Example

The Example in the discussion of the PCDSQL object illustrates the use of the GetDBVendor method.

Related Items

See the PCDSQL object.

See the following properties:

GetDomainList

This method allows you to retrieve a list of all other network domains that are accessible from the network identified as the root domain.

Syntax

Parameters

strNetworkOS

A string variable that identifies the network operating system that is currently running. Valid values are:

- %NI_ADS (Active Directory Services)
- %NI_NDS (a Novell network)
- %NI_NT (a Microsoft network)

strRootDomain

A string variable that identifies the root domain. Use the value "%UNDEFINED" to identify all domains accessible from the current user's base domain.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

See the Example in the discussion of the PCDNetworkInfo object for sample code that illustrates how you can use the GetDomainList method in your custom applications.

Related Items

See the PCDNetworkInfo object.

See the following properties:

GetDOCSUserName

After calling PCDLogin. Execute, use this method to determine the DM USER_ID with which the user was logged on to the DM library.

Syntax

PCDLogin.GetDOCSUserName()

Returns

Returns a string value that contains the DM USER_ID.

Related Items

See the PCDLogin object.

See the following methods:

GetAliasList GetLoginLibrary GetPrimaryGroup

See the following properties:

GetDST

Use this method to get the document security token (DST) that the server returns after a call to the Execute method of the PCDLogin object. You need to save the returned DST to use it in subsequent transactions.

Syntax

PCDLogin.GetDST()

Returns

Returns a string value that contains the DST.

Usage

The DST is a unique string returned from the DM Server and is valid while the user is logged on to the server. All subsequent transactions, such as search requests and lookups, require the DST to verify that the user is authorized to perform the transaction.

Example

The sample code in the Providing Library Access section in Chapter 1 illustrates how you can use the GetDST method in your custom applications.

Related Items

See the PCDLogin object.

See the following methods:

AddLogin Execute SetDST

See the following properties:

GetFailedLoginList

Use this method to get a PCDNetAliasList object pointer to an object containing a list of the supplied network aliases that did not pass network-level validation. This is only useful after Execute method of the PCDLogin object has been called.

Syntax

PCDLogin.GetFailedLoginList()

Returns

The GetFailedLoginList method returns a variant object that contains information about failed logon attempts. This allows you to access UnitName, UnitType, and UserName methods that are supported by the PCDNetAliasList object.

Usage

The GetFailedLoginList is useful when there are a number of libraries or other network resources that cannot be validated.

Example

The sample code in the Providing Library Access section in Chapter 1 illustrates how you can use the GetFailedLoginList method in your custom applications.

Related Items

See the following objects:

PCDLogin PCDNetAliasList

See the following methods:

GetAliasList GetDOCSUserName GetLoginLibrary GetPrimaryGroup

See the following properties:

GetGroupList

The GetGroupList method populates the result set with a list of the various groups that exist within a particular domain. There are two types of groups: distribution and security. Each is an instance of the Group object, and each contains a collection of attributes that describe group properties and group members.

Syntax

PCDNetworkInfo.GetGroupList(strNetwkOS, _ strDomainName)

Parameters

strNetwkOS

A string variable that identifies the network operating system that is currently running. Valid values are:

- %NI_ADS (Active Directory Services)
- %NI_NDS (a Novell network)
- %NI NT (a Microsoft network)

strRootDomain

A string that identifies the root domain.

Returns

GetGroupList returns an HRESULT value that indicates either success or the numeric error code that identifies the reason why the method did not execute successfully. This method also populates the result set with group values.

Example

See the Example in the discussion of the PCDNetworkInfo object for sample code that illustrates how you can use the GetGroupList method in your custom applications.

Related Items

See the PCDNetworkInfo object.

See the following properties:

GetGroupMembers

This method retrieves the user IDs that are present in the specified group. There is a hierarchy running from Domain to Group.

Syntax

Parameters

strNetworkOS

A string variable that identifies the network operating system that is currently running. Valid values are:

%NI_ADS (Active Directory Services)

%NI NT (a Microsoft network)

%NI_NDS (a Novell network)

strDomainName

A string that identifies the domain that contains

the group.

strGroupName

A string that contains the name of the group from which members are to be retrieved.

Returns

GetGroupMembers returns an HRESULT value that indicates either success (zero) or the numeric error code that identifies the reason why the method did not execute successfully. This method also populates the result set with the user IDs of the group members. No results are returned if either the Domain name or the Group name is blank.

Example

See the Example in the discussion of the PCDNetworkInfo object for sample code that illustrates how you can use the GetGroupMembers method in your custom applications.

Related Items

See the PCDNetworkInfo object.
See the following properties:

GetLoginLibrary

Use this method to retrieve the name of the DM library where the user is currently logged on.

Syntax

PCDLogin.GetLoginLibrary()

Returns

Returns a string that contains the name of the DM library where the user is currently logged on.

Example

The Providing Library Access section in Chapter 1 illustrates the use of the GetLoginLibrary method.

Related Items

See the PCDLogin object.

See the following methods:

AddLogin GetAliasList GetDOCSUserName GetFailedLoginList GetPrimaryGroup

See the following properties:

GetMetaPropertyValue

Use this method to get the value of a property from metadata that is returned when a search or lookup is executed.

Syntax

```
PCDLookup.GetMetaPropertyValue( strPropName )
PCDRecentDoc.GetMetaPropertyValue( strPropName )
PCDSearch.GetMetaPropertyValue( strPropName )
```

Parameter

strPropName

The name of the property to be returned in the results. It should be one of those described below.

Returns

GetMetaPropertyValue returns a VARIANT value that contains the value of the requested property.

Usage

You specify the metadata property for which you want data returned. The available metadata properties are %PropertyName, %Title, %Visible, and %Data. However, their meaning varies based on whether the GetMetaPropertyValue method is being used by the PCDLookup object or a different object.

For PCDLookup, each row in the metadata property list offers the following information:

- %PropertyName is the name of the property as it is shown on the base form. It can have the value "_UNKNOWN_" if there is no corresponding property on the base form.
- %Title is the title in the Lookup list box for this column.
 The %Title property often contains the prompt that describes the data when it is presented to the user. It can be blank.
- %Visible is a flag indicating whether or not this Lookup list box column should be displayed to the user.

%Data is the value of this column in the current row of the Lookup data (as opposed to the metadata). For example, %PropertyName could return "AUTHOR_ID", and %Data could return "J SMITH".

For PCDRecentDoc and PCDSearch, each row in the metadata property list offers the following information:

- **%PropertyName** is the name of the property as shown on the base form.
- %Title is the prompt for that field as shown on the base form.
- %Visible is undefined.
- %Data has no meaning.

Note: For compatibility purposes, PCDLookup also supports these property names as an alternative to the preferred terms shown above: PROPNAME, TITLE, VISIBLE, and DATA.

Example

The Example in the discussion of the PCDLookup object in Chapter 3 illustrates how you can use the GetMetaPropertyValue method in custom applications you create.

Related Items

See the following objects:

PCDLookup **PCDRecentDoc PCDSearch**

See the following properties:

GetMetaRowsFound

Use this method to identify the total number of rows of metadata that are returned when your search or lookup executes.

Syntax

PCDLookup.GetMetaRowsFound()
PCDRecentDoc.GetMetaRowsFound()
PCDSearch.GetMetaRowsFound()

Returns

Returns a long integer that contains the number of rows of metadata in the result set that your search or lookup returned.

Usage

You can use the row count value that GetMetaRowsFound returns in a "For 1 to TotalRows" loop to iterate through the metadata result set. While use of the number returned by GetMetaRowsFound is sometimes appropriate, there are performance considerations. Calling this method causes the server to wait until the search has completely finished retrieving all data from the database. The server will not return control to your application until all processing of the search or lookup is complete.

Those performance considerations suggest that it may be preferable to use an alternate method of iterating through the metadata result set. For example, instead of a "For" loop, you can use the SetRow method to position the pointer to row zero, and then use a "While YourObj.NextRow" loop to iterate through the metadata result set. Using this procedure, the server retrieves large metadata result sets in smaller "chunks" according to parameters set by the SetChunkFactor method.

Example

The GetMetaRowsFound method is used in the Example in the PCDLookup discussion in Chapter 3.

Related Items

See the following objects:

PCDLookup PCDRecentDoc **PCDSearch**

See the following properties:

GetNextKey

GetNextKey generates the next numeric value for a primary key column in the SQL database. This is true for all SQL database software that DM supports. However, the manner in which the GetNextKey method functions in an Oracle database environment differs slightly from how it functions in a Microsoft database environment. The Usage section will note these differences.

Syntax

PCDSQL.GetNextKey(strTableName)

Parameter

strTableName

A string variable that contains the name of the SQL database table for which the next numeric key value is requested. Passing no table name value results in the default primary key value being incremented.

Returns

The GetNextKey method returns a long integer that contains the key value after the previous value for the specified (or default) key is incremented by 1.

Usage

In order to understand how the GetNextKey input parameter is used, the API user must know how the GetNextKey method and the SQL database work together. This discussion summarizes the operational link as it applies to Microsoft SQL database software. A note explains differences that affect how Oracle SQL database software operates.

The DOCS_UNIQUE_KEYS table in the SQL database stores the most recently generated key value for each unique key in the database. The DOCS_UNIQUE_KEYS table has only two columns: a TBNAME column that normally stores the name of the table for a given key, and a LASTKEY column that stores the most recently assigned key value.

Most of the tables in the DM SQL database have a SYSTEM_ID column as their primary key. DM generates primary key values for new rows in those tables by calling the GetNextKey method with no input parameter. Primary key values that are generated with no input parameter receive their key value from the TBNAME column that has a value of SYSTEMKEY. Because so many tables obtain their primary key values from this pool of numbers, the generic name of SYSTEMKEY is used. There is no SYSTEMKEY table.

You are not required to store primary key values generated in this manner—with no input parameter—in a column named SYSTEM_ID. For example, the LOOKUPS table uses the METHODNUM column as its primary key, but it is generated in the same manner as other tables that use the more common SYSTEM_ID column as a primary key. You can do the same thing with tables that your custom applications require, whether you name your primary key column SYSTEM_ID or something different.

Some DM SQL database tables maintain primary keys that do not generate key values by incrementing the SYSTEMKEY column value. One example of this occurs in the PROFILE table where the DOCNUMBER column is shown as an "alternate" primary key. DM uses this primary key to manage the Document File Store, where the actual document content resides. You will see this in the DOCS_UNIQUE_KEYS table with its TBNAME column set to "DOCSADM. PROFILE".

As a developer using the DM API to create your customized applications or enhancements to the basic product, you have complete flexibility to manage primary keys for the tables you create. You can maintain separate key entries in the DOCS_UNIQUE_KEYS table for the tables you create, or you can retrieve key values from the SYSTEMKEY pool that DM supports. With a maximum key value in excess of 2 billion, neither the SYSTEMKEY nor other DOCS_UNIQUE_KEYS table entries are likely to exhaust the available pool of key values.

Note: Oracle supports system-generated sequences through use of a CREATE SEQUENCE SQL statement. DM uses this instead of the DOCS_UNIQUE_KEYS table to manage primary key values in Oracle databases. These columns are stored in the DUAL table. The previous discussion of primary key usage is all relevant to Oracle users, with the following exceptions:

- —The SYSTEMKEY column is maintained in Oracle as the SEQSYSTEMKEY sequence key.
- —Other primary keys have the table name that was passed to the GetNextKey method, but with "SEQ" as a prefix. So, the NEEDS_INDEXING primary key is stored in Oracle in the SEQNEEDS_INDEXING sequence.

However, your custom applications access the GetNextKey method in the exact same manner regardless of the database software you are using. You never need to modify your custom applications to accommodate differences in SQL database software.

Example

You can see how GetNextKey is used by referring to the Example in the discussion of the PCDSQL method.

Related Items

See the PCDSQL object.

See the following properties:

GetPrimaryGroup

Use this method to get the DM GROUP_ID that identifies the user's primary group. You must make a call to PCDLogin.Execute before you can get the primary group.

Syntax

PCDLogin.GetPrimaryGroup()

Returns

Returns a string that contains the primary group ID.

Usage

A user can be a member of many groups in a DM library; however, a user's primary group determines which library maintenance system parameter settings apply to that user.

Example

The section titled Providing Library Access in Chapter 1 illustrates how to use this method.

Related Items

See PCDLogin object.

See the following methods:

AddLogin GetAliasList GetDOCSUserName GetFailedLoginList GetLoginLibrary

See the following properties:

GetProperties

Use this method to create a PCDPropertyList object and to copy the properties in the PCDDocObject's internal list into it.

Syntax

PCDDocObject.GetProperties()
PCDPropertyLists.GetProperties()

Returns

Returns an output buffer to receive the PCDPropertyList object pointer. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDDocObject PCDPropertyLists

See the following properties:

GetProperty

Use this method to get the value of a property. This value may have been previously set with the SetProperty method, or it may have been returned in a call to the Fetch method.

Syntax

```
PCDDocObject.GetProperty( strPropName )
PCDPropertyLists.GetProperty( strPropName )
```

Parameter

strPropName

The string (BSTR) variable that contains the name of the property for which GetProperty is to return the value.

Returns

Returns a pointer to a VARIANT structure where the requested value will be put. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value. This value is also available in the ErrNumber property.

Related Items

See the following objects:

PCDDocObject PCDPropertyLists

See the following properties:

GetPropertyIndex

Use this method to get the property index of a named property. Check the ErrNumber property after calling this method to verify that the return value is valid.

Syntax

PCDPropertyList.GetPropertyIndex(strPropName)

Parameter

strPropName

A string value that contains the name of the property for which GetPropertyIndex is to return the index value.

Returns

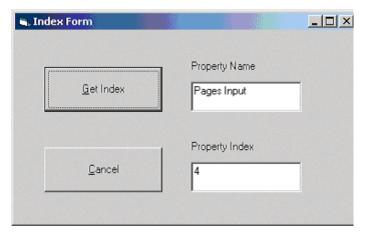
Returns an integer that identifies the location of the specified property in the index array. This index is zero-based.

Usage

If the requested property is not present in the property index array, the return value will be set to a value of negative one (-1). This will set an error in PCDError, while still returning S_OK.

Example

This sample code demonstrates the GetPropertyIndex call on the PCDPropertyList object. The form accepts the property name as the input value, and it returns the zero-based index of that property.



Private Sub cbGetIndex_Click()

```
Dim nResult As Long
  Dim nIndex As Long
  Dim nSize As Long
  Dim sPropName As String
  sPropName = txtPropertyName.Text
  If sPropName = "None" Then
    MsgBox "Please enter a property before "
        & "trying to retrieve the index."
  Else
    nSize = oIndexFormProps.GetSize()
    If nSize > 0 Then
      nIndex =
          oIndexFormProps.GetPropertyIndex( _
sPropName )
      If nIndex >= 0 And nIndex < nSize Then</pre>
        txtPropertyIndex.Text = nIndex
```

```
Else
         MsgBox "This is not a valid property
             & "or the property returned is "
             & "out of range."
       End If
    Else
      MsgBox "The PropertyList is empty."
    End If
  End If
End Sub
Related Items
See the PCDPropertyList object.
See the following methods:
BeginIter
DeleteProperty
GetCurrentPropertyName
Get Current Property Value \\
NextTrustee
See the following properties:
```

GetPropertyValue

Use this method to get the value of the named property from the current row in the results set.

Syntax

```
PCDGetDoc.GetPropertyValue( strPropName )
PCDGetForm.GetPropertyValue( strPropName )
PCDGetStream.GetPropertyValue( strPropName )
PCDPropertyList.GetPropertyValue( strPropName )
PCDPropertyLists.GetPropertyValue( strPropName )
PCDPutDoc.GetPropertyValue( strPropName )
PCDPutStream.GetPropertyValue( strPropName )
PCDRecentDoc.GetPropertyValue( strPropName )
PCDRecentDoc.GetPropertyValue( strPropName )
```

Parameter

strPropName

The name of the property for which GetPropertyValue is to retrieve the value.

Returns

Returns a VARIANT variable that contains the property value that you requested when you called GetPropertyValue.

Usage

You should call NextRow or SetRow before you call this method. After making this call to get the property value, you should check the ErrNumber property. It should be zero (S_OK) unless there was an error. Possible errors can include an invalid property name or not being set to a valid row.

Example

The Example in the discussion of the PCDGetDoc object illustrates how you can use this method.

Related Items

See the following objects:

PCDGetDoc

PCDGetForm

PCDGetStream

PCDPropertyList

PCDPropertyLists

PCDPutDoc

PCDPutStream

PCDRecentDoc

PCDSearch

See the following methods:

NextRow

SetRow

See the following properties:

ErrDescription

ErrNumber

GetPropertyValueByIndex

Use this method to get the value of a return property based on its location in the return properties index.

Syntax

PCDLookup.GetPropertyValueByIndex(intPropNdx)
PCDRecentDoc.GetPropertyValueByIndex(intPropNdx)
PCDSearch.GetPropertyValueByIndex(intPropNdx)

Parameter

intPropNdx

The zero-based index of the return property whose value is desired.

Returns

Returns a VARIANT that contains the property value data from the requested index position in the return array.

Usage

The position of the requested property value is determined by when it was added to the return property data set by use of the AddReturnProperty method. For example, if the first call to AddReturnProperty is AddReturnProperty ("DocName"), then, after calling Execute followed by NextRow, a call to GetPropertyValueByIndex(0) would retrieve the value of the DocName property for the first row in the results set.

Related Items

See the following objects:

PCDLookup PCDRecentDoc PCDSearch

See the following properties:

GetPublishedOrLatestVersion Code

The following code demonstrates finding the most recent published version of a document (which is not necessarily the most recently published version).

```
DOCNUM = "86"
Set objDOCSObjectsApplication =
CreateObject("DOCSObjects.Application")
strDST = obiDOCSObiectsApplication.DST
strLibraryName =
objDOCSObjectsApplication.CurrentLibrary.Name
Dim e, haspubver, result, vlabel
result = get_most_recent_published_version(DOCNUM,
strDST, _
strLibraryName, e, haspubver, vlabel)
msg = ""
msg = msg & "haspublishedversion = " & cstr(haspubver)
msg = msg & vbNewLine
msg = msg & "version ID = " & cstr(result)
msg = msg & vbNewLine
msg = msg & "version label = " & cstr(vlabel)
msgbox msg, vbOKOnly + vbInformation, "result"
Function get_most_recent_published_version _
( _
   strDocNumber, strDST, strLibrary, byRef out_blError, _
   byRef out blHasPublishedVersion. byRef
   out_strVersionLabel_
   Dim objPCDSearch
   Dim retval
   Dim intRowsFound
   Dim i
   Dim strVersionTD
   Dim strVersionLabel
   Dim strVersionStatus
   retval = ""
   out_blerror = FALSE
   out_blHasPublishedVersion = FALSE
   out strVersionLabel = ""
   Set objPCDSearch = CreateObject("PCDClient.PCDSearch")
   objPCDSearch.SetDST strDST
   objPCDSearch.SetSearchObject("VersionsSearch")
   objPCDSearch.AddSearchLib(strLibrary)
   objPCDSearch.AddSearchCriteria "%OBJECT_IDENTIFIER",
   strDocNumber
   objPCDSearch.AddReturnProperty "VERSION_ID"
   objPCDSearch.AddReturnProperty "VERSION_LABEL"
   ' A status of '20' indicates that the document has been
   published.
```

```
objPCDSearch.AddReturnProperty "STATUS"
   ' Sort by version ID and reverse the order of the
   returned list so
   ' that, when we loop through the results, the first
   published version
   ' is the most recent published version. Note that this
   is not
   ' necessarily the same as the most recently published
   version as
   ' documents can be published in any order.
   objPCDSearch.AddOrderByProperty "VERSION_ID", 0
   obiPCDSearch.Execute()
   If (objPCDSearch.ErrNumber <> 0) Then
      retval = ""
      get_published_version = retval
      out blerror = TRUE
      Exit Function
   End If
   intRowsFound = cLng(objPCDSearch.GetRowsFound())
   For i = 1 to intRowsFound
      objPCDSearch.SetRow(i)
      strVersionID =
      objPCDSearch.GetPropertyValue("VERSION_ID")
      strVersionLabel =
      objPCDSearch.GetPropertyValue("VERSION_LABEL")
      strVersionStatus =
      objPCDSearch.GetPropertyValue("STATUS")
      If (strVersionStatus = "20") Then
          out_blHasPublishedVersion = TRUE
          out strVersionLabel = strVersionLabel
          retval = strVersionID
          get_published_version = retval
          Exit Function
      Fnd Tf
   Next
   out_blHasPublishedVersion = FALSE
   get_published_version = retval
End Function
```

GetReturnProperties

Use this method to get a copy of the list of properties that the server will return when the search is executed.

Syntax

PCDDocObject.GetReturnProperties()
PCDGetDoc.GetReturnProperties()
PCDPutDoc.GetReturnProperties()
PCDRecentDoc.GetReturnProperties()

Returns

Returns a pointer to a PCDPropertyList object.

Usage

The GetReturnProperties method is used to retrieve data in the result set array that is returned by the Fetch method. You identify items that the Fetch returns by use of the AddProperty method prior to calling the Fetch. You can also use the SetReturnProperties method to set more than one return property with one method. You initialize the retrieval process by calling the BeginIter method. Use SetProperty to set the pointer to the first array element. Use NextProperty to advance to the next array element. Monitor whether or not an error occurs to determine when all array elements have been retrieved.

Related Items

See the following objects:

PCDGetDoc PCDPropertyList PCDPutDoc PCDRecentDoc

See the following methods:

AddProperty BeginIter NextProperty SetProperty SetReturnProperties

See the following properties:

GetReturnProperty

Use this method to get the value of a return property.

Syntax

PCDDocObject.GetReturnProperty(strPropName)

Parameter

strPropName

A string (BSTR) that contains the name of the property that the GetReturnProperty method is to return.

Returns

Returns a pointer to a VARIANT structure where the value of the property is put. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value. This value is also available in the ErrNumber property.

Example

The Example in the discussion of the PCDPutDoc object illustrates how you can use the GetReturnProperty method in your custom applications.

Related Items

See the PCDDocObject object.

See the following properties:

GetRowCount

Use the GetRowCount method to determine the number of rows that a result data set returns.

Syntax

PCDNetworkInfo.GetRowCount() PCDSQL.GetRowCount()

Returns

The GetRowCount method returns a long integer that contains the number of rows in the current result set.

Example

The Example in the discussion of the PCDNetworkInfo object illustrates how you can use GetRowCount in your custom applications.

Related Items

See the following objects:

PCDNetworkInfo **PCDSQL**

See the following properties:

GetRowsAffected

This method reports the number of rows in the SQL database that were affected by the latest DELETE, INSERT, or UPDATE structured query language statement executed against the DM library.

Syntax

PCDSQL.GetRowsAffected()

Returns

The GetRowsAffected method returns a long integer that contains the number of rows affected by the most recent SQL statement that resulted in a DELETE, INSERT, or UPDATE operation.

Example

The Example in PCDSQL illustrates how you can use GetRowsAffected in your custom applications.

Related Items

See the PCDSQL object.

See the following properties:

GetRowsFound

Use this method to get the number of rows found as a result of a search operation.

Syntax

PCDGetDoc.GetRowsFound()
PCDLookup.GetRowsFound()
PCDPutDoc.GetRowsFound()
PCDRecentDoc.GetRowsFound()
PCDSearch.GetRowsFound()

Returns

Returns a long integer that contains the number of rows in the result set.

Usage

You should exercise caution before calling this method because the server will not return the information until the search has completed processing and has retrieved all data from the database. Large data sets can subject the user to an unacceptably long wait. If this is a possibility, you can use SetRow and NextRow methods to begin iteration through a data set before all processing completes.

Example

The Example in PCDGetDoc illustrates how you can use GetRowsFound in your custom applications.

Related Items

See the following objects:

PCDGetDoc PCDLookup PCDPutDoc PCDRecentDoc PCDSearch See the following properties:

GetSearchCriteria

Use this method to get a PCDPropertyList object pointer to a copy of the list of search criteria that the search object is currently using.

Syntax

PCDGetDoc.GetSearchCriteria() PCDLookup.GetSearchCriteria() PCDPutDoc.GetSearchCriteria() PCDRecentDoc.GetSearchCriteria()

Returns

Returns a PCDPropertyList object pointer.

Related Items

See the following objects:

PCDGetDoc PCDLookup PCDPutDoc PCDRecentDoc

See the SetSearchCriteria method.

See the following properties:

GetSize

Use this method to get the number items in a list. For example, you can use GetSize to request the number of available libraries on the DM Server or the number of properties in a list of properties.

Syntax

PCDGetLoginLibs.GetSize()
PCDNetAliasList.GetSize()
PCDPropertyList.GetSize()
PCDTrusteeList.GetSize()

Returns

Returns a long integer to receive the number of items in the return data set list. Each of the items is a name-value pair that you can access by checking for the name and then retrieving the associated value. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in PCDGetLoginLibs illustrates how you can use GetSize in your custom applications.

Related Items

See the following objects:

PCDGetLoginLibs PCDNetAliasList PCDPropertyList PCDTrusteeList

See the following methods:

Execute GetAt

See the following properties:

GetSQLErrorCode

This method retrieves the native SQL error code as returned by the library's database.

Syntax

PCDSQL.GetSQLErrorCode()

Returns

This method returns a long integer that contains the error code number associated with the most recent SQL error. If zero is returned, no error occurred.

Usage

The GetSQLErrorCode method differs from the ErrNumber method. If, for example, the Execute method returns an error, the ErrNumber property should be used to identify the error number. ErrNumber identifies a large number of error conditions, not all of which are related to a structured query language operation. The ErrDescription property returns the description for the most recent error. If an error occurred, but it was not a SQL error, then GetSQLErrorCode returns the value of zero.

If the ErrDescription or ErrNumber properties indicate that a SQL error occurred, then the GetSQLErrorCode method will return one of the following SQL-specific error codes:

Code	Description of SQL Error Code
0	No error
1	Missing DLL
2	Bad Connection
3	General Error
4	Fatal Error
5	Syntax Error
6	Invalid Logon
7	Server Not Available

Code	Description of SQL Error Code	
9	No Rows	
10	Invalid Column Number	
11	Invalid Row Number	
12	Invalid Table Name	
13	Invalid Column Name	
14	Invalid Index Name	
15	Duplicate Key in Index	
16	Constraint Violation	
17	Object Already Exists	
18	Already Indexed	
19	Not DBA	
20	Stored Procedure Failed	
21	No Memory	
22	Cancelled	
23	Permission Denied	
24	Deadlocked	

Example

The Example in PCDSQL illustrates the use of the GetSQLErrorCode.

Related Items

See the PCDSQL object.

See the following properties:

GetTrustee

Use this method to get the trustee rights value for the trustee you specify.

Syntax

Parameters

strTrusteeName String (BSTR) that identifies the name of the

trustee.

intTrusteeFlag A long integer that identifies the flag setting

for the trustee. Supported values are as

follows:

PCD_TRUSTEE_UNKNOWN_TYPE = 0 PCD_TRUSTEE_GROUP_TYPE = 1 PCD_TRUSTEE_PERSON_TYPE = 2

Returns

Returns an integer that identifies the rights for the specified trustee. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDDocObject PCDTrusteeList

See the following methods:

FetchTrustees GetTrustees SetTrustee SetTrustees UpdateTrustees

See the following properties:

GetTrusteeIndex

Use this method to locate the index location of a trustee in a list of trustees.

Syntax

Parameters

strTrusteeName String (BSTR) that identifies the name of the

trustee.

intTrusteeFlags A long integer that identifies the flag setting for

the trustee. Supported values are as follows:

PCD_TRUSTEE_UNKNOWN_TYPE = 0 PCD_TRUSTEE_GROUP_TYPE = 1 PCD_TRUSTEE_PERSON_TYPE = 2

Returns

Returns an unsigned long integer that contains the offset in the list of trustees. JavaScript, Visual Basic, and VBScript return this as a function value. If the entry cannot be found, it returns a PCD_ERR_NAME_NOT_FOUND error condition.

Related Items

See the PCDTrusteeList object.

See the following methods:

GetSize GetTrusteeRights SetTrusteeRights

See the following properties:

GetTrusteeRights

Use this method to get the trustee rights for an entry in a trustee list at an index offset that you specify.

Syntax

PCDTrusteeList.GetTrusteeRights(intNdx)

Parameter

intNdx

An unsigned long integer that identifies the offset of the trustee entry you specify in a list of trustees.

Returns

Returns a an integer that contains the trustee rights. Languages such as JavaScript and Visual Basic return this as a function value.

Related Items

See the PCDTrusteeList object.

See the following methods:

GetSize GetTrusteeIndex SetTrusteeRights

See the following properties:

GetTrustees

Once a list of trustees has been retrieved from the SQL database by use of FetchTrustees, use this method to populate a PCDTrusteeList object so that you can iterate through the trustee entries.

Syntax

PCDDocObject.GetTrustees()

Returns

Returns a variant to the trustee list. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDDocObject PCDTrusteeList

See the following methods:

FetchTrustees GetTrustee SetTrustees SetTrustees UpdateTrustees

See the following properties:

GetUserFullName

This method retrieves the full name of the user from the network operating system.

Syntax

```
PCDNetworkInfo.GetUserFullName( strNetworkType, _
strDomainName, _
strMemberID )
```

Parameters

strNetworkType

A string that identifies the type of network operating system that is currently running. Options are:

 %NI_ADS (Active Directory Services)

%NI_NDS (a Novell network)

%NI_NT (a Microsoft network)

strDomainName

A string that identifies the network domain that

contains this user.

strMemberID

A string that identifies the user within the network domain.

Returns

GetUserFullName returns an HRESULT that indicates whether the method successfully retrieved the user's full name. S_OK indicates success.

Usage

If the GetUserFullName method was successful, you can retrieve the full name of the user by using the GetValue method.

Example

The Example in the discussion of the PCDNetworkInfo object shows how you can use this method.

Related Items

See the PCDNetworkInfo object.

See the GetValue method.

See the following properties:

GetUserGroups

This method allows you to load a result set with the security groups that include the network user ID that you specify.

Syntax

```
PCDNetworkInfo.GetUserGroups( strNetworkType, _
                              strDomainName, _
                              struserID )
```

Parameters

strNetworkType

A string that identifies the type of network operating system that is currently running. Options are:

 %NI ADS (Active Directory Services)

%NI NDS (a Novell network)

%NI NT (a Microsoft network)

strDomainName

A string that identifies the network domain that

contains this user.

struserID

A string that identifies the user within the network domain.

Returns

The GetUserGroups method returns an HRESULT that indicates whether the method successfully retrieved the list of groups that include the user as a member. S_OK indicates success.

Usage

If the GetUserGroups method was successful, you can use the GetRowCount method to set up a loop. Then, use the NextRow method to iterate through the user group list. For each user group, use the GetValue method to retrieve the name of each group.

Example

The Example in the discussion of the PCDNetworkInfo object shows how you can use this method.

Related Items

See the PCDNetworkInfo object.

See the following methods:

GetRowCount GetValue NextRow

See the following properties:

GetUserlist

This method retrieves the set of user ID values that exist within the network domain that you specify.

Syntax

PCDNetworkInfo.GetUserList(strNetworkType, _ strDomainName)

Parameters

strNetworkType

A string that identifies the type of network operating system that is currently running. Options are:

- %NI ADS (Active Directory Services)
- %NI NDS (a Novell network)
- %NI NT (a Microsoft network)

strDomainName

A string that identifies the network domain from which a user list is to be retrieved.

Returns

The GetUserList method returns an HRESULT that indicates whether the method successfully retrieved the list of users for the specified network domain. S_OK indicates success.

Usage

If the GetUserList method was successful, you can use the GetRowCount method to set up a loop. Then, use the NextRow method to iterate through the list of users. For each user, use the GetValue method to retrieve the user ID value.

You can query the root domain by using the "%UNDEFINED" token as the value for the name of the network domain. Doing this returns the user IDs on that specific computer, as opposed to all of the users in the network domain.

Example

The Example in the discussion of the PCDNetworkInfo object shows how you can use this method.

Related Items

See the PCDNetworkInfo object.

See the following methods:

GetRowCount GetValue NextRow

See the following properties:

GetValue

The GetValue method retrieves the next value from the current result set.

Syntax

PCDNetworkInfo.GetValue()

Returns

GetValue returns a string that contains the value of the current element of the result set. It always returns a string, regardless of the actual data type.

Usage

The NextRow method must be called before GetValue is called.

Example

The Example in the discussion of the PCDNetworkInfo object shows how you can use this method.

Related Items

See the PCDNetworkInfo object.

See the NextRow method.

See the following properties:

GrantRight

Use this method to calculate a right's mask based upon a rights-mask argument and a rights-token argument.

Syntax

Parameters

strRightName The name of the right to grant.

intRightsIn The rights mask in which you want to grant the

named right.

Returns

Returns an integer that contains the rights mask. This information is stored in the ACCESSRIGHTS column in the SECURITY table of the SQL database that supports your DM system.

The arguments and return values for this method have no inherent relationship to any user, group, or document, including the document represented by the current PCDDocObject instance. Any rights mask representing the rights of any user to any document may be passed to this method. The right specified by the parameter strRightName is added to the rights mask specified by the parameter intRightsIn, and the resulting value is returned. In other words, bits are turned on in the passed-rights mask and the result returned.

Usage

The Profile and QuickSearch rights are the lower 16 bits of a 32-bit integer. Bit settings are OR'ed together. For example, a user with rights to view profiles (binary 000000000000001) and edit profiles (binary 0000000000001) would have a rights setting of 3 (binary 00000000000011).

The following Profile rights are supported:

Value	Token	Description
1	%PR_VIEW	View Profile
2	%PR_EDIT	Edit Profile
4	%PR_CONTENT_VIEW	View Document Content
8	%PR_CONTENT_RETRIEVE	Retrieve Document Content
16	%PR_CONTENT_EDIT	Edit Document Content
32	%PR_CONTENT_COPY	Copy Document Content
64	%PR_DELETE	Delete Document
128	%PR_ACCESS_CONTROL	Control Access to Document
256	%RIGHT8	Assign to File
512	%RIGHT9	View Only Published

The following QuickSearch rights are supported:

Value	Token	Description
1	%QS_VIEW	View Search
2	%QS_EDIT	Edit Search
4	%QS_DELETE	Delete Search

Related Items

See the PCDDocObject object.

See the following methods:

HasRight RevokeRight

See the following properties:

HasRight

Use this method to determine if the specified user or group rights mask permits the right you specify.

This method does not indicate the rights of any user to any document. Rather, this method indicates whether or not the rights mask passed as the argument intRightsIn contains the right specified by the rights token argument strRightName. In other words, this method is used to determine if certain bits are turned on in the passed-rights mask.

Syntax

PCDDocObject.HasRight(strRightName, intRightsIn)

Parameters

strRightName A string value that identifies the name of the right.

intRightsIn The rights mask in which you want to identify

whether the right is available to the user.

Returns

Returns TRUE if the named right is available to the user.

Usage

It is important that you use late binding when creating a PCDDocObject object that will use the HasRight method. Using early binding to create the PCDDocObject can result in the HasRight method generating an error.

The Profile and QuickSearch rights are the lower 16 bits of a 32-bit integer. Bit settings are OR'ed together. For example, a user with rights to view profiles (binary 000000000000001) and edit profiles (binary 0000000000001) would have a rights setting of 3 (binary 00000000000011).

The following Profile rights are supported:

Value	Token	Description
1	%PR_VIEW	View Profile

Value	Token	Description
2	%PR_EDIT	Edit Profile
4	%PR_CONTENT_VIEW	View Document Content
8	%PR_CONTENT_RETRIEVE	Retrieve Document Content
16	%PR_CONTENT_EDIT	Edit Document Content
32	%PR_CONTENT_COPY	Copy Document Content
64	%PR_DELETE	Delete Document
128	%PR_ACCESS_CONTROL	Control Access to Document
256	%RIGHT8	Assign to File
512	%RIGHT9	View Only Published

The following QuickSearch rights are supported:

Value	Token	Description
1	%QS_VIEW	Use Search
2	%QS_EDIT	Edit Search
4	%QS_DELETE	Delete Search

Example

The Example in the discussion of the FetchTrustees method shows how you can use the HasRight method.

The following sample demonstrates the **HasRight** method and the various tokens which represent rights.

```
strDocNum = "9"
strVersion = "1"
Set objDOCSObjectsApplication =
CreateObject("DOCSObjects.Application")
strDST = objDOCSObjectsApplication.DST
strCurrentLibrary =
objDOCSObjectsApplication.CurrentLibrary.Name
Set objPCDDocObject =
CreateObject("PCDClient.PCDDocObject")
objPCDDocObject.SetDST strDST
objPCDDocObject.SetObjectType "cyd_defprof"
objPCDDocObject.SetProperty "%TARGET_LIBRARY",
strCurrentLibrary
objPCDDocObject.SetProperty "%OBJECT_IDENTIFIER",
strDocNum
objPCDDocObject.SetProperty "%VERSION_ID", strVersion
objPCDDocObject.Fetch
intAccessRights =
objPCDDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")
Set dictRightsTokens =
CreateObject("Scripting.Dictionary")
```

```
dictRightsTokens.Add "View Profile", "%PR_VIEW" dictRightsTokens.Add "Edit Profile", "%PR_EDIT" dictRightsTokens.Add "View Document Content", "%PR_CONTENT_VIEW"
dictRightsTokens.Add "Retrieve Document Content", "%PR_CONTENT_RETRIEVE"
dictRightsTokens.Add "Edit Document Content",
"%PR_CONTENT_EDIT"
dictRightsTokens.Add "Copy Document Content",
"%PR_CONTENT_COPY"
dictRightsTokens.Add "Delete Document content",
"%PR_CONTENT_DELETE
dictRightsTokens.Add "Control Access to Document", "%PR_ACCESS_CONTROL"
dictRightsTokens.Add "Assign to File", "%RIGHT8" dictRightsTokens.Add "View Only Published", "%RIGHT9"
For Each objKey in dictRightsTokens.Keys
intResult =
objPCDDocObject.HasRight(dictRightsTokens(objKey),
intAccessRights)
If intResult = 1 Then b]HasRight = "TRUE"
Else
blHasRight = "FALSE"
End If
strMessage = strMessage & objKey & " = " & blHasRight &
vbNewLine
Next
strCaption = "Rights for Document #" & strDocNum & ", "
& "Version " & strVersion
MsgBox strMessage, vbOKOnly, strCaption
```

Related Items

See the PCDDocObject object.

See the following methods:

FetchTrustees GrantRight RevokeRight

See the following properties:

IsEmpty

Use this method to check whether an empty document was uploaded.

Syntax

PCDASPFileUpload.IsEmpty()

Returns

IsEmpty returns a Boolean value. TRUE indicates that an empty document was uploaded.

Usage

In Netscape and Internet Explorer, users can erroneously attempt to upload a non-existent file by entering a file name that does not exist on their system. The IsEmpty method provides you with a way to test for this before the system tries to create the document in a DM file store.

Related Items

See the PCDASPFileUpload object.

IsMember0f

This method reports whether or not a user ID is a member of the network group that you specify.

Syntax

Parameters

strNetworkOS

A string variable that identifies the network operating system that is currently running. Valid values are:

 %NI_ADS (Active Directory Services)

%NI_NT (a Microsoft network)

%NI_NDS (a Novell network)

strDomainName A string that identifies the domain that is being

searched.

strUserID A string that identifies the network ID of the

user whose membership in the group is being

checked.

strGroupName A string that identifies the name of the group

that is being checked to see if the current user

is a member.

Returns

The IsMemberOf method returns an HRESULT value that indicates either success or the numeric error code that identifies the reason why the method did not execute successfully. S_OK indicates success.

Usage

Use the NextRow method to test whether the user is a member of the specified group. If the user is not a member of the specified group, then a call to NextRow returns FALSE. No results are returned if either the Domain name or the Group name is blank.

Example

See the Example in the discussion of the PCDNetworkInfo object for sample code that illustrates how you can use the IsMemberOf method in your custom applications.

Related Items

See the PCDNetworkInfo object.

See the NextRow method.

See the following properties:

NewEnum

This method provides standard-style C++ COM Enum access to the object.

Syntax

PCDPropertyLists.NewEnum()

Returns

This method returns a pointer to a PCDEnumPropertyLists object.

Related Items

See the PCDEnumPropertyLists object.

See the following properties:

Next

This method returns PCDPropertyList items from the PCDPropertyLists object. You specify the number of items that you want returned.

Syntax

PCDEnumPropertyLists.Next(lngNmbr)

Parameters

lngNmbr

A long integer that identifies the number of PCDPropertyList items that you want returned to you.

Returns

The Next method returns two parameters: an array of PCDPropertyList objects and a long integer that indicates that number of PCDPropertyList objects that were returned by the call.

Related Items

See the PCDEnumPropertyLists object.

See the following properties:

NextMetaRow

Use this method to increment the current pointer in the metadata results set.

Syntax

PCDLookup.NextMetaRow()
PCDRecentDoc.NextMetaRow()
PCDSearch.NextMetaRow()

Returns

Returns a Boolean value of TRUE, unless there are no more rows, in which case it returns FALSE.

Usage

This is useful only after calling Execute. Call this or SetMetaRow after calling Execute, but before the first call to GetMetaPropertyValue.

Related Items

See the following objects:

PCDLookup PCDRecentDoc PCDSearch

See the following methods:

Execute GetMetaPropertyValue SetMetaRow

See the following properties:

NextProperty

Use this method to increment the internal pointer for the current property list so it points to the next property in the list.

Syntax

PCDPropertyList.NextProperty() PCDPropertyLists.NextProperty()

Returns

Returns an HRESULT return value to indicate the status of the method. If the method increments past the end of the list, the return value will be PCD_S_END_OF_LIST. Otherwise, it returns S_OK.

Related Items

See the following objects:

PCDPropertyList PCDPropertyLists

See the following properties:

NextRow

This method increments the current row pointer.

Syntax

PCDGetDoc.NextRow()
PCDLookup.NextRow()
PCDNetworkInfo.NextRow()
PCDPropertyLists.NextRow()
PCDPutDoc.NextRow()
PCDRecentDoc.NextRow()
PCDSearch.NextRow()
PCDSOL.NextRow()

Returns

Returns a Boolean value of TRUE if pointer incremented without error. It returns FALSE if the row number is less than 1 or greater than the number of rows in the result set.

Usage

You can make a call to NextRow or SetRow only after calling Execute. You must make a call to NextRow or SetRow before the first call to GetPropertyValue, GetMetaPropertyValue, or GetValue.

Example

The section titled Retrieving Recently Edited Documents in Chapter 1 illustrates the use of the NextRow method.

Related Items

See the following objects:

PCDGetDoc PCDLookup PCDNetworkInfo PCDPropertyLists PCDPutDoc PCDRecentDoc

PCDSearch PCDSQL

See the following methods:

Execute GetMetaPropertyValue GetMetaRowsFound GetPropertyValue GetRowsFound GetValue SetRow

See the following properties:

NextTrustee

Use this method to iterate through the trustees in the trustee list.

Syntax

PCDTrusteeList.NextTrustee()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

Checking the ErrNumber property allows you to determine whether or not the pointer was able to iterate to the next trustee. ErrNumber returns S_OK if it successfully positioned on a list entry. It returns PCD_S_END_OF_LIST if it is at the end of the list.

Related Items

See the PCDTrusteeList object.

See the following methods:

BeginIter
GetCurrentTrusteeFlags
GetCurrentTrusteeName
GetCurrentTrusteeRights
GetTrusteeIndex

See the following properties:

OnEndPage

The Active Server Pages (ASP) engine calls this method to clean up ASP objects.

Syntax

PCDASPFileUpload.OnEndPage()

Caution: While the OnEndPage method is visible to you in the DM API, you should never call it in your custom applications. Only the ASP engine should call this method.

Related Items

See the PCDASPFileUpload object.

See the OnStartPage method.

See the following properties:

OnStartPage

The Active Server Pages (ASP) engine calls this method to initialize pointers to ASP objects that the Execute method uses.

Syntax

PCDASPFileUpload.OnStartPage(intUnk)

Caution: While the OnStartPage method is visible to you in the DM API, you should never call it in your custom applications. Only the ASP engine should call this method.

Parameter

intUnk

An integer pointer that is passed in from ASP.

Related Items

See the PCDASPFileUpload object.

See the OnEndPage method.

See the following properties:

Read

Use this method to read binary data from a physical file.

Syntax

PCDGetStream.Read(lngBytes, [lngBytesRead])

Parameters

IngBytes An unsigned long integer that contains the number

of bytes to attempt to read.

1ngBytesRead An unsigned long set to the number of bytes read

during the call. This parameter is optional.

Returns

Returns a VARIANT containing a SAFEARRAY of bytes that is the actual data read. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

Some programming languages, such as C++ and Visual Basic, support the optional second parameter for this method. In programming languages that do not support it, you can follow the Read method with the BytesRead method to obtain the number of bytes read.

Related Items

See the PCDGetStream object.

See the following methods:

GetPropertyValue Seek

See the following properties:

BytesRead ErrDescription ErrNumber

ReleaseResults

Use this method to release the results that are currently held in memory as a result of the most recently generated SQL results set. Memory and system resources used to store the SQL result set are freed for later use.

Syntax

PCDLookup.ReleaseResults()
PCDRecentDoc.ReleaseResults()
PCDSearch.ReleaseResults()
PCDSQL.ReleaseResults()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDLookup PCDRecentDoc PCDSearch PCDSQL

See the following properties:

Reset

This method resets the PCDEnumPropertyLists object's pointer to the first entry in the list of PCDPropertyList objects in the PCDPropertyLists collection.

Syntax

PCDEnumPropertyLists.Reset

Returns

This method returns an HRESULT that indicates whether the method successfully reset the enumeration list pointer. S_OK indicates success.

Related Items

See the following objects:

PCDEnumPropertyLists PCDPropertyList PCDPropertyLists

See the following properties:

RevokeRight

Use this method to turn off a named bit in the supplied rights mask.

Syntax

Parameters

strRightName The name of the right to turn off.

intRightsIn The rights mask in which you want to turn off the

named right.

Usage

The Profile and QuickSearch rights are the lower 16 bits of a 32-bit integer. Bit settings are OR'ed together. For example, a user with rights to view profiles (binary 0000000000000001) and edit profiles (binary 0000000000001) would have a rights setting of 3 (binary 0000000000011). Sending an integer value of 2 would remove the user's rights to edit profile forms.

The following Profile rights are supported:

Value	Token	Description
1	%PR_VIEW	View Profile
2	%PR_EDIT	Edit Profile
4	%PR_CONTENT_VIEW	View Document Content
8	%PR_CONTENT_RETRIEVE	Retrieve Document Content
16	%PR_CONTENT_EDIT	Edit Document Content
32	%PR_CONTENT_COPY	Copy Document Content
64	%PR_DELETE	Delete Document
128	%PR_ACCESS_CONTROL	Control Access to Document
256	%RIGHT8	Assign to File
512	%RIGHT9	View Only Published

The following QuickSearch rights are supported:

Value	Token	Description
1	%QS_VIEW	View Search
2	%QS_EDIT	Edit Search
4	%QS_DELETE	Delete Search

Returns

Returns an integer that contains the rights mask as it exists after the specified access right has been revoked. This information is stored in the ACCESSRIGHTS column in the SECURITY table of the SQL database that supports your DM system.

Related Items

See the PCDDocObject object.

See the following properties:

Seek

Use this method to position the file's current position pointer to a specific byte offset within the physical file.

Syntax

PCDGetStream.Seek(lngSeekOffset)

Parameter

1ngSeekOffset

An unsigned long integer that specifies the offset from the beginning of the file object where you want the pointer to be positioned.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDGetStream object.

See the following methods:

GetPropertyValue Read

See the following properties:

BytesRead ErrDescription ErrNumber

SetChunkFactor

This method sets the number of rows to retrieve from the server results set when a SQL call is made. The default is 10.

Syntax

```
PCDLookup.SetChunkFactor( lngChunkSize )
PCDPropertyLists.SetChunkFactor( lngChunkSize )
PCDRecentDoc.SetChunkFactor( lngChunkSize )
PCDSearch.SetChunkFactor( lngChunkSize )
```

Parameter

lngChunkSize

A long integer that specifies the number of rows to retrieve into the local cache at one time.

Returns

Returns an HRESULT to receive the result of the call. S OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

You are never required to call this method—it is provided to optimize wire traffic to the server.

Related Items

See the following objects:

PCDLookup PCDPropertyLists PCDRecentDoc PCDSearch

See the following properties:

SetComplete

For languages such as JavaScript and VBScript that do not give the user explicit control over when an interface is released, use this call to release all locks and other resources used by the stream. The stream is no longer available for use after this call.

Note: If you have control over the release of interfaces, you should release the interface rather than issuing this call to release the interface.

Syntax

PCDGetStream.SetComplete()
PCDPutStream.SetComplete()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDGetStream PCDPutStream

See the following properties:

SetDST

Use this method to set the document security token (DST) that will be used in processing the search request or manipulating document objects.

Syntax

```
PCDDocObject.SetDST( strDST )
PCDGetDoc.SetDST( strDST )
PCDGetForm.SetDST( strDST )
PCDLogin.SetDST( strDST )
PCDLookup.SetDST( strDST )
PCDNetworkInfo.SetDST( strDST )
PCDPropertyLists.SetDST( strDST )
PCDPutDoc.SetDST( strDST )
PCDRecentDoc.SetDST( strDST )
PCDRearch.SetDST( strDST )
```

Parameter

strDST

A string that contains the security token.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

The GetDST method that is called by the PCDLogin object provides the DST that you use during your entire user session. By using the SetDST method as part of each document or database retrieval, you allow the DM library to authenticate who you are and what access privileges have been granted to you. The DST can be used across multiple DM libraries.

Example

The SetDST method is used in many examples throughout this guide. The Fetching a DM Document Object discussion in Chapter 1 provides a representative reference that shows how you can use this method.

Related Items

See the following objects:

PCDDocObject

PCDGetDoc

PCDGetForm

PCDLogin

PCDLookup

PCDNetworkInfo

PCDPropertyLists

PCDPutDoc

PCDRecentDoc

PCDSearch

PCDSQL

See the GetDST method.

See the following properties:

ErrDescription

ErrNumber

SetLibrary

This method sets the DM library that is to be used with the current instance of the PCDSQL object.

Syntax

PCDSQL.SetLibrary(strMyLibrary)

Parameter

strMyLibrary

A string variable that contains the name of the library to use.

Returns

Returns an HRESULT value. It always returns a value that indicates SUCCESS, whether the library that is being set exists or not.

Usage

If an empty string is sent with the SetLibrary method, the user's default library becomes the target of subsequent SQL statements.

Example

The Example in the discussion of the PCDSQL object shows how you can use this method.

Related Items

See the PCDSQL object.

See the following properties:

SetLookupId

Use this method to set the lookup form that you want to process. Similar to searches, lookups are controlled by forms.

Syntax

PCDLookup.SetLookupId(strLookupName)

Parameter

strLookupName

The lookup form that you want to use. One common example is the PEOPLE form.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example included in the discussion of the PCDLookup object illustrates how you can use this method.

Related Items

See the PCDLookup object.

See the following methods:

AddSearchCriteria
AddSearchLib
Execute
GetMetaPropertyValue
GetMetaRowsFound
GetRowsFound
GetSearchCriteria
NextMetaRow
NextRow
SetChunkFactor
SetDST
SetMetaRow
SetRow
SetSearchCriteria
SetSearchCriteria
SetSearchObject

See the following properties:

SetTargetProperty

SetMaxRows

Use this method to set the maximum number of rows to be returned by your lookup or search.

Syntax

```
PCDLookup.SetMaxRows( intMaxRows )
PCDRecentDoc.SetMaxRows( intMaxRows )
PCDSearch.SetMaxRows( intMaxRows )
```

Parameter

intMaxRows

An integer variable that contains the maximum number of rows.

Return Values

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

If you intend to limit the number of rows returned by your search, you must use this method before you call the Execute method. SetMaxRows has no effect if called after the lookup or search has been executed. Passing a maximum row parameter that is set to zero or less than zero results in an unlimited number of rows being returned.

Related Items

See the following objects:

PCDLookup PCDRecentDoc PCDSearch

See the following properties:

SetMetaRow

Use this method to set the pointer to the current metadata row in the results set to a specific row number.

Syntax

```
PCDLookup.SetMetaRow( lngRowNbr )
PCDRecentDOc.SetMetaRow( lngRowNbr )
PCDSearch.SetMetaRow( lngRowNbr )
```

Parameter

IngRowNbr

A long integer that indicates the row number where you want to position the result set pointer.

Returns

Returns a Boolean value. TRUE indicates the current row number has been set to the specified row number. FALSE indicates there was an error.

Usage

The row count in the result set is 1-based. Thus, if you call SetMetaRow (0), and then call GetMetaPropertyValue, you will generate an error. Also, if you set it to a row number that is higher than the number of rows in the result set, you will get an error.

Example

The Example in the discussion of PCDLookup illustrates how you can use this method.

Related Items

See the following objects:

PCDLookup PCDRecentDoc PCDSearch

See the following properties:

SetObjectType

Use this method to set the object type. For PCDDocObject and PCDGetForm the object is a form available to the user.

Syntax

```
PCDDocObject.SetObjectType( strObjectType )
PCDGetForm.SetObjectType( strObjectType )
PCDPropertyLists.SetObjectType( strObjectType )
```

Parameter

strObjectType

A string (BSTR) variable that identifies the object type that the method is to use.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

This routine must be called before you call any of the following methods:

Create Fetch Update

Example

The Example in the discussion of the PCDGetStream object illustrates how you can use SetObjectType in your custom applications.

Related Items

See the following objects:

PCDDocObject PCDGetForm

PCDPropertyLists

See the following methods:

Create Fetch Update

See the following properties:

SetOptions

This method allows you to set recursion and level options for items in property list collections.

Syntax

PCDPropertyLists.SetOptions(lngOptionVal)

Parameters

lngOptionVal

A long integer that contains the bit-map indicator for the option that you set.

```
No options set = 0
Make the property list recursive = 1
Identify the property's level = 2
Both recursive and level settings = 3
```

Returns

The **SetOptions** method returns an **HRESULT** that indicates whether the option was set successfully. **S_OK** indicates success.

Usage

A PCDPropertyList object can contain almost any information contained in the SQL database about a document, record, folder, or other type of database item. Assume a PCDPropertyList object points to a folder that contains two document objects and one folder object, which also contains two documents. Enabling recursion results in actions that affect the primary object (in this example, the folder that contains everything else) propagating through to all the other objects. This allows a user to set everything in the folder "read only" by setting the first folder to "read only." With the recursion setting enabled, the other folder and all four documents are also set to "read only."

Setting the level indicator returns information about the level of each affected object. In the example above, the first folder is at level 0. The two documents it contains and the other folder are at level 1. The two documents in the level 1 folder are at level 2. If recursion is not enabled, only level 0 items will be affected by any Execute method.

Related Items

See the following objects:

PCDPropertyList PCDPropertyLists

See the following properties:

SetProperties

Use this method to set an object with a collection of properties. Any previously set properties are deleted.

Syntax

```
PCDDocObject.SetProperties( strPropList )
PCDPropertyList.SetProperties( strPropList )
PCDPropertyLists.SetProperties( strPropList )
```

Parameter

strPropList

A pointer to the object (often a PCDPropertyList object) from which the PCDDocObject should copy the new properties.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDDocObject PCDPropertyList PCDPropertyLists

See the following properties:

SetProperty

Use this method to set a property to be used with a Create, Execute, or Update method. If the property already exists in the property list, its value will be updated. If it does not exist, it will be added to the property list.

Syntax

```
PCDDocObject.SetProperty( strPropName, vntVal )
PCDPropertyLists.SetProperty( strPropName, vntVal )
```

Parameters

strPropName A string (BSTR) variable that contains the name

of the property to be set.

vntVal A VARIANT that contains the value to which the

property is to be set.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in the discussion of the PCDGetStream object demonstrates how you can use the SetProperty method.

Related Items

See the following objects:

PCDDocObject PCDPropertyLists

See the following properties:

SetReturnProperties

Use this method to set PCDRecentDoc or PCDSearch objects with a collection of properties. Any property values that were previously set are deleted by the SetReturnProperties method.

Syntax

```
PCDRecentDoc.SetReturnProperties( objPropList )
PCDSearch.SetReturnProperties( objPropList )
```

Parameter

objPropList

A variable that points to a PCDPropertyList object that contains the return properties of the search.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDPropertyList PCDRecentDoc PCDSearch

See the GetReturnProperties method.

See the following properties:

SetRow

Use this method to set the row pointer in the results set to a specific row.

Syntax

```
PCDGetDoc.SetRow( lngRowNbr )
PCDLookup.SetRow( lngRowNbr )
PCDPutDoc.SetRow( lngRowNbr )
PCDRecentDoc.SetRow( lngRowNbr )
PCDSearch.SetRow( lngRowNbr )
PCDSQL.SetRow( lngRowNbr )
```

Parameter

lngRowNbr

A long integer that identifies the row number to which the row pointer is to be set.

Returns

Returns a Boolean value that indicates whether or not the operation completed successfully. It is TRUE if the row number was set to a row within the current result set. A FALSE value indicates that the row number was less than 1 or greater than the number of rows in the result set.

Usage

The row count in the result set is 1-based. You can use GetColumnValue or GetPropertyValue methods to retrieve data from the selected row in the result set.

Example

The Example in the PCDLookup object discussion illustrates how you can use the SetRow method.

Related Items

See the following objects:

PCDGetDoc PCDLookup PCDPutDoc PCDRecentDoc **PCDSearch**

See the following methods:

GetColumnValue GetPropertyValue NextRow

See the following properties:

SetSearchCriteria

Use this method to set the search criteria to be used in the current search.

Syntax

```
PCDGetDoc.SetSearchCriteria( objPropList )
PCDLookup.SetSearchCriteria( objPropList )
PCDPutDoc.SetSearchCriteria( objPropList )
PCDRecentDoc.SetSearchCriteria( objPropList )
PCDSearch.SetSearchCriteria( objPropList )
```

Parameter

objPropList An object variable that points to a PCDPropertyList object.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

Instead of adding criteria one property pair at a time, this method lets you set a collection of search criteria using a PCDPropertyList object. Any previously existing search properties are deleted when the SetSearchCriteria method executes.

Related Items

See the following objects:

PCDGetDoc PCDLookup PCDPropertyList PCDPutDoc PCDRecentDoc PCDSearch See the following methods:

AddSearchCriteria GetSearchCriteria

See the following properties:

SetSearchObject

Use this method to identify the form that you want to use to process the specified operation.

Syntax

```
PCDGetDoc.SetSearchObject( strObjName )
PCDLookup.SetSearchObject( strObjName )
PCDPutDoc.SetSearchObject( strObjName )
PCDRecentDoc.SetSearchObject( strObjName )
PCDSearch.SetSearchObject( strObjName )
```

Parameter

str0bjName

A string variable that identifies the form to be used in the operation.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

Use this method before calling Execute. The FORM_NAME column in the FORMS table contains the identifier that you use to identify the form that is to be used in an operation.

Example

The Example in the discussion of PCDLookup shows how you can use this method in your custom applications.

Related Items

See the following objects:

PCDGetDoc PCDLookup PCDPutDoc PCDRecentDoc

PCDSearch

See the following properties:

SetTargetProperty

Use this method to set the target property of a lookup.

Syntax

PCDLookup.SetTargetProperty(strTargetProp)

Parameter

strTargetProp

A string variable that identifies the target property that is to be used for the lookup.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

The target property can be any data object that appears on a lookup form. If your form has a data item called SUPERVISOR, it will usually be mapped to the lookup form as "SUPERVISOR", and you select it as the target property by passing that identifier as the SetTargetProperty parameter.

Note: While the DM API allows you to change the name of fields on forms you create (or modify), you should only do this when absolutely necessary. You should **never** rename original fields on the standard forms that DM creates when you initially install it.

You can use the AddUserFilterCriteria method to further limit the search. If you want to retrieve documents written by Mary Smith, the AddUserFilterCriteria method allows you, for example, to restrict the search to author names that match "SMITH M".

Related Items

See the PCDLookup object.

See the AddUserFilterCriteria method.

See the following properties:

SetTrustee

Use this method to set a trustee value in a trustee list. If the trustee name and flags match an existing entry in the list, its rights will be updated. If it does not match an existing entry, the entry will be added.

Syntax

Parameters

strTrusteeName A string (BSTR) variable that identifies the

name of the trustee.

intTrusteeFlags An integer variable that sets the trustee flags.

Supported values are as follows:

PCD_TRUSTEE_UNKNOWN_TYPE = 0 PCD_TRUSTEE_GROUP_TYPE = 1 PCD_TRUSTEE_PERSON_TYPE = 2

intTrusteeRights An integer variable that identifies the rights

that are to be assigned to the trustee.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The Example in the discussion of FetchTrustees shows how you can use the SetTrustee method.

Related Items

See the PCDDocObject object.

See the following methods:

GetTrustees
GetTrustees

SetTrustees

See the following properties:

SetTrustees

Use this method to copy all the trustee entries from a PCDTrusteeList object into the internal trustee list for the PCDDocObject.

Syntax

PCDDocObject.SetTrustees(objTrusteeList)

Parameter

objTrusteeList A pointer to a PCDTrusteeList object from which the PCDDocObject can copy the trustee list.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The section that discusses Getting and Updating Trustee Information in chapter 1 provides an example of how you can use the SetTrustees method.

Related Items

See the following objects:

PCDDocObject PCDTrusteeList

See the following methods:

GetTrustee GetTrustees SetTrustee

See the following properties:

SetTrusteeRights

Use this method to update the Trustee rights for a trustee at a given offset in the trustee list.

Syntax

Parameters

IngNdx An unsigned long integer that contains the

offset in the trustee list where trustee rights

are to be set.

flags.

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Usage

The trustee rights flags parameter uses the same access rights settings as other security methods. These security settings are maintained in the ACCESSRIGHTS column of the SECURITY table in the SQL database.

Related Items

See the PCDTrusteeList object.

See the GetTrusteeRights method.

See the following properties:

Skip

This method skips PCDPropertyList objects in the PCDPropertyLists collection. You specify how many objects are to be skipped.

Syntax

PCDEnumPropertyLists.Skip(lngNmbr)

Parameters

IngNmbr

A long integer that identifies the number of objects that the enumeration list pointer is to skip.

Returns

Returns an HRESULT to receive the result of the call. S OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the following objects:

PCDEnumPropertyLists PCDPropertyList **PCDPropertyLists**

See the following properties:

UnitName

Use this method to get unit name of an entry in a PCDLogin list that a PCDNetAliasList object is accessing.

Syntax

PCDNetAliasList.UnitName(lngNdx)

Parameter

IngNdx

A long integer that identifies the entry in the list.

Returns

Returns a string that identifies the unit name.

Usage

The index list processed by this method is zero-based.

Example

The discussion on Providing Library Access in chapter 1 shows how you can use this method in custom applications you create.

Related Items

See the following objects:

PCDLogin PCDNetAliasList

See the following methods:

UnitType UserName

See the following properties:

UnitType

Use this method to get unit type of an entry in a PCDLogin list that a PCDNetAliasList object is accessing.

Syntax

PCDNetAliasList.UnitType(lngNdx)

Parameter

IngNdx

A long integer that identifies the entry in the list.

Returns

Returns an integer value that identifies the unit type. The type values are as follows:

Value	Unit Type
0	LIBRARY_LOGIN
1	NETWORK_BINDERY
2	NETWORK_NDS
8	MS_NETWORK

Usage

The index list processed by this method is zero-based.

Example

The discussion on Providing Library Access in chapter 1 shows how you can use this method in custom applications you create.

Related Items

See the following objects:

PCDLogin PCDNetAliasList

See the following methods:

UnitName UserName

See the following properties:

Update

This method updates a PCDDocObject using the information that has previously been set by other methods.

Syntax

PCDDocObject.Update()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The discussion about Getting and Updating Trustee Information in chapter 1 shows how you can use the Update method.

Related Items

See the PCDDocObject object.

See the following methods:

Create

Delete

Fetch

See the following properties:

UpdateTrustees

Use this method to update trustee information for a PCDDocObject object.

Syntax

PCDDocObject.UpdateTrustees()

Returns

Returns an HRESULT to receive the result of the call. S_OK indicates success. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Example

The UpdateTrustees method is discussed in the section titled Getting and Updating Trustee Information in chapter 1.

Related Items

See the PCDDocObject object.

See the following methods:

FetchTrustees

GetTrustee

GetTrustees

SetTrustee

SetTrustees

See the following properties:

ErrDescription

ErrNumber

UserName

Use this method to get user name of an entry in a PCDLogin list that a PCDNetAliasList object is accessing.

Syntax

PCDNetAliasList.UserName(lngNdx)

Parameter

IngNdx

A long integer that identifies the entry in the list.

Returns

Returns a string value that contains a user name.

Usage

The index list processed by this method is zero-based.

Example

The discussion on Providing Library Access in chapter 1 shows how you can use this method in custom applications you create.

Related Items

See the following objects:

PCDLogin PCDNetAliasList

See the following methods:

UnitName UnitType

See the following properties:

ErrDescription ErrNumber

Write

Use this method to write binary data to a physical file.

Syntax

PCDPutStream.Write(vntData, lngBytes)

Parameters

vntData A variant variable that contains the data to write

out to the file. It should be a BSTR or a

SAFEARRAY.

IngBytes The total number of bytes of data that are written

to the vntData variable.

Returns

Returns the actual number of bytes written during the Write operation. Languages such as JavaScript, Visual Basic, and VBScript return this as a function value.

Related Items

See the PCDPutStream object.

See the GetPropertyValue method.

See the following properties:

BytesWritten ErrDescription ErrNumber

Chapter



5

DM API Tokens

In This Chapter

This chapter presents an alphabetical list of DM tokens. Each entry discusses the syntax, usage, and other information associated with each token.

%ADD_ATTACHMENT

This token is used with the **%VERSION_DIRECTIVE** token to add an attachment. See %VERSION_DIRECTIVE for further information.

Syntax

PCDDocObject.SetProperty("%VERSION_DIRECTIVE", _
"%ADD_ATTACHMENT")

Parameters

%VERSION_DIRECTIVE The token that indicates that this

> command statement adjusts the document version settings.

%ADD_ATTACHMENT The token identifier that indicates that an

attachment is being added to the current

document version.

Example

See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object.

See the **SetProperty** method.

See the **%VERSION_DIRECTIVE** token.

%ATTACHMENT ID

This token is used by the Update method that PCDDocObject supports to add an attachment to the document.

Syntax

Parameters

%ATTACHMENT_ID The token identifier that indicates an

attachment is being added to the current

document.

IngAttachDocNum The value from the DOCNUMBER

column of the PROFILE table that identifies the document that is being

added as an attachment.

Usage

Use %ATTACHMENT_ID with the SetProperty method that the PCDDocObject object supports.

Example

```
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
```

'Set the login security information (DST) here.

pDocObject.SetProperty("%VERSION_DIRECTIVE","%ADD_A
TTACHMENT")
pDocObject.SetProperty("%ATTACHMENT_ID", atcID)

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the %VERSION_DIRECTIVE token.

%CHECKIN_DATE

This token is used in the Update method that the PCDDocObject object supports when the object is being checked out or locked.

```
Syntax
```

Parameters

%CHECKIN_DATE The token identifier that indicates check-

in data is being set.

dteDueDate A date variable that contains the check-

in date value.

Example

```
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Set the expected check-in date.
expDate = "" + getFormValue( "checkoutdocact",
"ExpectedDate" )
If ( expDate.length > 0 ) Then
pDocObject.SetProperty ( "%CHECKIN_DATE", expDate )
End If
```

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

```
%CHECKOUT_COMMENT
%ELAPSED_TIME
```

%CHECKOUT COMMENT

This token is used in the Update method that the PCDDocObject object supports to specify the checkout comment when an object is being checked out or locked.

Syntax

Parameters

%CHECKOUT_COMMENT The token identifier that indicates a

check-out comment is being set.

strComment A string variable that contains the check-

out comment.

Example

```
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Set the comment, if any.
If ( comment.length > 0 ) Then
pDocObject.SetProperty( "%CHECKOUT_COMMENT",
comment )
End If
```

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CHECKIN_DATE %ELAPSED_TIME

%CONTENT

This token is used to retrieve a stream for the content of the document. It can also be used to update the document.

Syntax

PCDGetDoc.GetPropertyValue("%CONTENT") PCDPutDoc.GetPropertyValue("%CONTENT")

Parameters

%CONTENT

Used with the PCDGetDoc object, the %CONTENT token retrieves a pointer to a PCDGetStream object that allows the program to get the content of the document.

Used with the PDCPutDoc object, the %CONTENT token retrieves a pointer to the PCDPutStream object so the content of the document can be written.

```
'Create the object.
pGetDoc = CreateObject("PCDClient.PCDGetDoc.1")
'check for errors
checkError(pGetDoc, "ERROR_CREATEGETDOC")
'add library to the search criteria
pGetDoc.AddSearchCriteria("%TARGET_LIBRARY",
library)
'add docnum the search criteria
pGetDoc.AddSearchCriteria("%DOCUMENT_NUMBER",
docnum)
'add version of the doc the search criteria
pGetDoc.AddSearchCriteria("%VERSION_ID",
version id)
'run the search
pGetDoc.Execute()
```

```
'check error
checkError(pGetDoc, "ERROR_CHECKOUTFILESIZE")
'Report the total components (or rows).
iCount = pGetDoc.GetReturnvalue(%NUM_COMPONENTS)
MsgBox("The totoal number of rows = " &
CStr(iCount))
'Get the first row.
pGetDoc.SetRow(1)
'Get the stream.
pGetStream = pGetDoc.GetPropertyValue("%CONTENT")
checkError(pGetDoc, "ERROR_GETCONTENT")
'Get the size of the content stream.
VerFileSize = GetStream.GetPropertyValue( _
"%ISTREAM_STATSTG_CBSIZE_LOWPART")
```

See the following objects:

PCDGetDoc PCDPutDoc

See the GetPropertyValue method.

See the %ISTREAM_STATSTG_CBSIZE_LOWPART token.

%CONTENTS AFTER ITEM

This token is used in conjunction with **%CONTENTS_DIRECTIVE** to specify that a folder should be moved after another folder.

Syntax

```
PCDDocObject.SetProperty( _
    "%CONTENTS_AFTER_ITEM", lngAfterItem)
```

Parameters

%CONTENTS_AFTER_ITEM The token identifier that indicates that

the current item is to be positioned after

another item.

lngAfterItem The value from the DOCNUMBER

> column of the PROFILE table that identifies the item after which the new

link is to be inserted.

```
'Create the object.
pDocObject = CreateObject("PCDClient.PCDDocObject")
'Check for errors.
checkError(pDocObject,
"ERROR_CREATECSIOBJECT_PCDDOCOBJECT")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set object type.
pDocObject.SetObjectType("ContentItem")
'Set the library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strFolderLib)
'Set the item to be moved.
pDocObject.SetProperty("%CONTENTS_ITEM", systemID)
'Set the item to be moved after.
```

See the PCDPDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%CONTENTS COPY CONTENTS

This token is used in conjunction with **%CONTENTS_DIRECTIVE** to specify that a folder's content should be copied into another folder.

Syntax

PCDDocObject.SetProperty(_ "%CONTENTS_DIRECTIVE", _ "%CONTENTS COPY CONTENTS")

Parameters

%CONTENTS_DIRECTIVE The token identifier that indicates that

the program will manipulate the contents

of a folder.

%CONTENTS_COPY_ **CONTENTS**

The token identifier that indicates the contents of one folder are being copied

to another folder.

```
'create the object.
pDocObject = CreateObject("PCDClient.PCDDocObject")
'set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("ContentsCollection")
'Set the library.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
'Set the source.
pDocObject.SetProperty("%CONTENTS_SRC_PARENT",
srcFolderNum)
'Set the source version.
pDocObject.SetProperty("%CONTENTS_SRC_PARENT_VERSIO
N", _
             srcFolderVersion)
```

```
'Set the source library
pDocObject.SetProperty("%CONTENTS_SRC_PARENT_LIBRAR
Y", _
             srcFolderLibID)
'Set the target folder.
pDocObject.SetProperty("%CONTENTS_DST_PARENT",
tarFolderNum)
'Set the target folder version.
pDocObject.SetProperty("%CONTENTS_DST_PARENT_VERSIO
Ν", _
            tarFolderVersion)
'Set the target folder library.
pDocObject.SetProperty("%CONTENTS_DST_PARENT_LIBRAR
Υ", _
             tarFolderLibID)
'Command to copy.
pDocObject.SetProperty("%CONTENTS_DIRECTIVE", _
             "%CONTENTS_COPY_CONTENTS")
'Perform the update.
pDocObject.Update()
'Check the error.
checkError(pDocObject, "ERROR_COPYFOLDERCONTENTS")
'Delete the object.
delete pDocObject
```

See the PCDDocObject object. See the **SetProperty** method. See the %CONTENTS_DIRECTIVE token.

%CONTENTS DIRECTIVE

This token is used to manipulate the content of the folder. The following operations are supported:

- %CONTENTS_MOVE_DOWN
- %CONTENTS_MOVE_UP
- %CONTENTS_MOVE_TO_TOP
- %CONTENTS_MOVE_AFTER
- %CONTENTS_REORDER_CONTENTS
- %CONTENTS_WHERE_USED
- %CONTENTS_COPY_CONTENTS

Syntax

```
PCDDocObject.SetProperty( _
                 "%CONTENTS_DIRECTIVE", _
                 strOperation)
```

Parameters

%CONTENTS_DIRECTIVE The token identifier that indicates that

the program will manipulate the contents

of a folder.

strOperation A string variable that contains one of the

> supported operations, or the name of the operation as a literal enclosed in double

quotation marks.

Example

See the %CONTENTS_COPY_CONTENTS Example on page 286 or the %CONTENTS_MOVE_AFTER Example on page 292.

Related Items

See the PCDDocObject object.

See the **SetProperty** method.

See the following tokens:

%CONTENTS_COPY_CONTENTS

%CONTENTS_MOVE_AFTER

%CONTENTS_MOVE_DOWN

%CONTENTS_MOVE_TO_TOP

%CONTENTS_MOVE_UP

%CONTENTS_REORDER_CONTENTS

%CONTENTS_WHERE_USED

%CONTENTS_ITEM

This token identifies the system ID that identifies the object that is the primary subject of the current operation.

Syntax

Parameters

%CONTENTS_ITEM The token identifier that indicates that

this statement references the unique identifier for the profiled object involved

in the current operation.

IngSystemID
The SYSTEM_ID value from the

FOLDER_ITEM database table.

Usage

In order to access other information about the profiled object referenced by %CONTENTS_ITEM, the FOLDER_ITEM table is joined to the PROFILE table by use of the DOCNUMBER value that exists in both tables.

Example

The %CONTENTS_ITEM token is used in several examples. See the %CONTENTS_MOVE_AFTER Example on page 292, the %CONTENTS_MOVE_DOWN Example on page 294, the %CONTENTS_MOVE_TO_TOP Example on page 296, or the %CONTENTS_MOVE_UP Example on page 298.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_DIRECTIVE %CONTENTS_MOVE_AFTER %CONTENTS_MOVE_DOWN %CONTENTS_MOVE_TO_TOP

%CONTENTS MOVE AFTER

This token is used in conjunction with **CONTENTS_DIRECTIVE** to specify that a folder should be repositioned so it follows another folder in the collection.

Syntax

```
PCDDocObject.SetProperty( _
                "%CONTENTS_DIRECTIVE", _
                "%CONTENTS MOVE AFTER")
```

Parameters

%CONTENTS_DIRECTIVE The token identifier that indicates that

the program will manipulate the contents

of a folder.

%CONTENTS_MOVE_

AFTER

The token identifier that indicates that one folder is to be listed after another.

```
'Create the doc object.
Dim pDocObject As New PCDDocObject
'Check for errors.
checkError(pDocObject,
"ERROR_CREATECSIOBJECT_PCDDOCOBJECT")
'Set the DM security token.
pDocObject.SetDST strDST
'Set the current library.
pDocObject.SetProperty
"%CONTENTS_SRC_PARENT_LIBRARY", _
             strSrcFolderLib
'Set the object type.
pDocObject.SetObjectType("ContentItem")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strTqtFolderLib)
```

See the PCDDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%CONTENTS MOVE DOWN

Use this token in conjunction with %CONTENTS_DIRECTIVE to move a folder down by one position.

Syntax

```
PCDDocObject.SetProperty( _
                "%CONTENTS_DIRECTIVE", _
                "%CONTENTS MOVE DOWN")
```

Parameters

The token identifier that indicates that %CONTENTS_DIRECTIVE

the program will manipulate the contents

of a folder.

The token identifier that the target folder %CONTENTS_MOVE_ DOWN

is to be displayed one position further

down in the folder collection.

```
'Get the library name.
Dim strFolderLib As String
strFolderLib = InputBox( "Enter the library name.")
'Create the doc object.
pDocObject = CreateObject("PCDClient.PCDDocObject")
'Check for errors.
checkError(pDocObject,
"ERROR CREATECSIOBJECT PCDDOCOBJECT")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("ContentItem")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strFolderLib)
pDocObject.SetProperty("%CONTENTS_ITEM", systemID)
```

See the PCDDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%CONTENTS MOVE TO TOP

Use this token in conjunction with %CONTENTS_DIRECTIVE to move a folder to the top of the collection.

Syntax

```
PCDDocObject.SetProperty( _
                "%CONTENTS_DIRECTIVE", _
                "%CONTENTS MOVE TO TOP")
```

Parameters

The token identifier that indicates that %CONTENTS_DIRECTIVE

the program will manipulate the contents

of a folder.

%CONTENTS_MOVE_TO_

TOP

This token indicates that the specified folder is to be listed first in the folder

collection.

```
'Get the library name.
Dim strFolderLib As String
strFolderLib = InputBox( "Enter the library name.")
'Create the doc object.
pDocObject = CreateObject("PCDClient.PCDDocObject")
'Check for errors.
checkError(pDocObject,
"ERROR CREATECSIOBJECT PCDDOCOBJECT")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("ContentItem")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strFolderLib)
'Identify the object to be moved.
pDocObject.SetProperty("%CONTENTS_ITEM", systemID)
```

See the PCDDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%CONTENTS MOVE UP

Use this token in conjunction with %CONTENTS_DIRECTIVE to move a folder up by one position.

Syntax

```
PCDDocObject.SetProperty( _
                "%CONTENTS_DIRECTIVE", _
                "%CONTENTS MOVE UP")
```

Parameters

The token identifier that indicates that %CONTENTS_DIRECTIVE

the program will manipulate the contents

of a folder.

The token identifier that the target folder %CONTENTS_MOVE_UP

is to be displayed one position earlier in

the folder collection.

```
'Get the library name.
Dim strFolderLib As String
strFolderLib = InputBox( "Enter the library name.")
'create the doc object
pDocObject = CreateObject("PCDClient.PCDDocObject")
'Check for errors.
checkError(pDocObject,
"ERROR_CREATECSIOBJECT_PCDDOCOBJECT")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("ContentItem")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strFolderLib)
'Identify the object to be moved.
pDocObject.SetProperty("%CONTENTS_ITEM", systemID)
```

See the PCDDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%CONTENTS REORDER CONTENTS

Use this token in conjunction with %CONTENTS_DIRECTIVE to change the order of the folder collection.

Syntax

```
PCDDocObject.SetProperty( _
                "%CONTENTS_DIRECTIVE", _
                 "%CONTENTS_REORDER_CONTENTS")
```

Parameters

The token identifier that indicates that %CONTENTS_DIRECTIVE

the program will manipulate the contents

of a folder.

%CONTENTS_REORDER_ **CONTENTS**

The token identifier that the folder collection is to be reordered according to

the sequence specified in the %CONTENTS_REORDER_ARRAY

command.

```
'Create the doc objects.
pDocObject = CreateObject("PCDClient.PCDDocObject")
'Check the error.
checkError(pDocObject,
"ERROR_CREATECSIOBJECT_PCDDOCOBJECT")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("ContentsCollection")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strFolderLib)
'Set the content folder.
pDocObject.SetProperty("%CONTENTS_PARENT",
folderNum)
```

See the PCDDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%CONTENTS_SRC_PARENT

This token is used in conjunction with the %CONTENTS_DIRECTIVE token and the %CONTENTS_COPY_CONTENTS token. It identifies the document number of the folder whose contents are to be copied to another folder.

Syntax

PCDDocObject.SetProperty(_

"%CONTENTS_SRC_PARENT", _

lngDocNum)

Parameters

%CONTENTS_SRC_

PARENT

The token identifier that indicates that the document number value in this statement references the source folder

item.

IngDocNum The value from the DOCNUMBER

> column of the PROFILE table that identifies the folder item whose contents

are being copied.

Example

See the **CONTENTS_COPY_CONTENTS** Example on page 286.

Related Items

See the PCDDocObject object.

See the **SetProperty** method.

See the following tokens:

%CONTENTS DIRECTIVE **%CONTENTS COPY CONTENTS**

%CONTENTS_SRC_PARENT_LIBRARY

This token is used in conjunction with the %CONTENTS_DIRECTIVE token and the %CONTENTS_COPY_CONTENTS token. It identifies the library of the source folder whose contents are being copied to another folder.

Syntax

Parameters

%CONTENTS_SRC_ The token identifier that indicates that PARENT_LIBRARY this statement references the library ID

number of the folder item.

intLibID The value from the PARENT_LIBRARY

column of the FOLDER_ITEM table that identifies the library of the folder item whose contents are being copied.

Example

See the %CONTENTS_COPY_CONTENTS Example on page 286.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_DIRECTIVE %CONTENTS_COPY_CONTENTS

%CONTENTS_SRC_PARENT_VERSION

This token is used in conjunction with the %CONTENTS_DIRECTIVE token and the %CONTENTS_COPY_CONTENTS token. It identifies the document version of the source whose contents are to be copied to another folder.

Syntax

PCDDocObject.SetProperty("%CONTENTS_SRC_PARENT_VERSION", intverNum)

Parameters

%CONTENTS_SRC_ The token identifier that indicates that PARENT_VERSION this statement references the version

number of the source document.

intVerNum The value from the VERSION column of

the VERSIONS table that identifies the version of the folder whose contents are

being copied.

Example

See the %CONTENTS_COPY_CONTENTS Example on page 286.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS DIRECTIVE **%CONTENTS COPY CONTENTS**

%CONTENTS_DST_PARENT

This token is used in conjunction with the %CONTENTS_DIRECTIVE token and the %CONTENTS_COPY_CONTENTS token. It identifies the document number of the folder that is the destination of the content operation.

Syntax

lngDocNum)

Parameters

%CONTENTS_DST_ The token identifier that indicates that the document number value in this

the document number value in this statement references the destination

folder item.

IngDocNum The value from the DOCNUMBER column

of the PROFILE table that identifies the folder that receives the copied item(s).

Example

See the %CONTENTS_COPY_CONTENTS Example on page 286.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_DIRECTIVE

%CONTENTS_COPY_CONTENTS

%CONTENTS DST PARENT LIBRARY

This token is used in conjunction with the %CONTENTS_DIRECTIVE token and the **%CONTENTS_COPY_CONTENTS** token. It identifies the library of the destination folder to a document object is being copied.

Syntax

PCDDocObject.SetProperty(_ "%CONTENTS_DST_PARENT_LIBRARY", _ intLibID)

Parameters

%CONTENTS DST PARENT LIBRARY The token identifier that indicates that this statement references the library ID

number of the folder item.

intLibID

The value from the PARENT_LIBRARY column of the FOLDER ITEM table that identifies the library of the folder item that is to receive the document object

that is being copied.

Example

Seethe %CONTENTS_COPY_CONTENTS Example on page 286.

Related Items

See the PCDDocObject object.

See the **SetProperty** method.

See the following tokens:

%CONTENTS DIRECTIVE %CONTENTS_COPY_CONTENTS

%CONTENTS_DST_PARENT_VERSION

This token is used in conjunction with the %CONTENTS_DIRECTIVE token and the %CONTENTS_COPY_CONTENTS token. It identifies the document version to which document contents are being.

Syntax

Parameters

%CONTENTS_DST_ The token identifier that indicates that PARENT_VERSION this statement references the version

number of the destination document.

intVerNum The value of the VERSION column of

the VERSIONS table that identifies the version of the folder that receives the

copied document.

Example

See the %CONTENTS_COPY_CONTENTS Example on page 286.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_DIRECTIVE %CONTENTS_COPY_CONTENTS

%CONTENTS PARENT

This token is used in conjunction with the %CONTENTS_REORDER_ARRAY token to reorganize a folder collection.

Syntax

PCDDocObject.SetProperty("%CONTENTS_PARENT",

lngDocNum)

Parameters

%CONTENTS PARENT The token identifier. (Although its name

implies it references a "parent," it

references the document number of the

affected folder.)

1ngDocNum The document number retrieved through

the link in the DOCNUMBER column of

the FOLDER ITEM table.

Example

See the %CONTENTS_REORDER_CONTENTS Example on page 300.

Related Items

See the PCDDocObject object.

See the **SetProperty** method.

See the following tokens:

%CONTENTS PARENT VERSION %CONTENTS_REORDER_CONTENTS %CONTENTS_REORDER_ARRAY

%CONTENTS_PARENT_VERSION

This token is used in conjunction with the %CONTENTS_REORDER_ARRAY token to reorganize a folder collection.

Syntax

PCDDocObject.SetProperty(_

"%CONTENTS_PARENT_VERSION", _

lngFolderVersion)

Parameters

%CONTENTS_PARENT_

lngFolderVersion

The token identifier, indicating that

VERSION

version information is being provided.

The document number retrieved through the link in the VERSION ID column of

the VERSIONS table.

Example

See the %CONTENTS_REORDER_CONTENTS Example on page 300.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_PARENT_VERSION
%CONTENTS_REORDER_CONTENTS
%CONTENTS_REORDER_ARRAY

%CONTENTS WHERE USED

Use this token in conjunction with **%CONTENTS_DIRECTIVE** to get the information about where the folder is being used.

Syntax

```
PCDDocObject.SetProperty( _
                "%CONTENTS_DIRECTIVE", _
                "CONTENTS_WHERE_USED")
```

Parameters

The token identifier that indicates that %CONTENTS_DIRECTIVE

the program will manipulate the contents

of a folder.

%CONTENTS_WHERE_ USED The token identifier that returns the

names of any containers (other than the

current container) that contain the

search document.

```
'Create the object.
PropLists =
CreateObject("PCDClient.PCDPropertyLists")
'Check for error(s).
checkError(PropLists,
"ERROR_CREATECSIOBJECT_PCDPROPERTYLISTS")
'Set the DM security token.
PropLists.SetDST(strDST)
'Set the object type.
PropLists.SetObjectType("ContentsCollection")
'Set the action code.
PropLists.SetProperty("%CONTENTS_DIRECTIVE", _
             "%CONTENTS_WHERE_USED")
'Set the destination library.
PropLists.SetProperty("%TARGET_LIBRARY", library)
'Set the document number.
```

```
PropLists.SetProperty("DOCNUMBER", docNum)

'Set the chunk size.
PropLists.SetChunkFactor(size)

'Execute the search.
PropLists.Execute()

CheckError(PropLists, "ERROR_WHEREUSED")
While (PropLists.NextRow())

'Process data returned by the search.
```

wend

See the PCDDocObject object.
See the SetProperty method.
See the %CONTENTS_DIRECTIVE token.

%COPYDOC

This token is used when a document is created by copying content from another document.

Syntax

PCDDocObject.SetProperty("%COPYDOC", _ lngDocNum)

Parameters

%COPYDOC The token identifier that indicates

document content is being copied into a

new document.

IngDocNum The DOCNUMBER value from the

> PROFILE table that uniquely identifies the document that is being copied to

create the new document.

Example

pDocObject.SetProperty("%COPYDOC", docnumbertocopy)

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_COPY_CONTENTS

%COPYDOC

%COPYDOC LIBRARY %COPYDOC_VERSION

%COPYDOC LIBRARY

The %COPYDOC_LIBRARY token is used when document content from one library is copied to create a new document in another library. This token identifies the library where the original document is located.

Syntax

PCDDocObject.SetProperty("%COPYDOC_LIBRARY",
_

lngLibraryID)

Parameters

%COPYDOC_LIBRARY The token identifier that specifies that

this statement contains the library where the original document that is to be

copied is located.

IngLibraryID The library identifier of the document

that is being copied.

Usage

This token is omitted if the document that is being copied currently exists in the library where the new document is being created.

Example

pDocObject.SetProperty("%COPYDOC_LIBRARY", library)

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_COPY_CONTENTS
%COPYDOC
%COPYDOC_LIBRARY
%COPYDOC_VERSION

%COPYDOC_VERSION

When document content is being copied to create a new document, this token identifies the version of the document that is to be copied.

Syntax

PCDDocObject.SetProperty("%COPYDOC_VERSION", "lngverNum")

Parameters

%COPYDOC VERSION The token identifier that specifies that

> this statement contains the version of the original document that is to be

copied.

1ngVerNum The VERSION value from the

> VERSIONS table that identifies which version of the document is to be copied.

Example

pDocObject.SetProperty("%COPYDOC_VERSION", version id)

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%CONTENTS_COPY_CONTENTS

%COPYDOC

%COPYDOC_LIBRARY %COPYDOC_VERSION

%DATA

The Execute method that PCDLookup supports returns both data and metadata. The %DATA token is used to retrieve the data returned by the lookup operation.

Syntax

PCDLookup.GetMetaPropertyValue("%DATA")

Parameters

%DATA

The token identifier used to request the data from a lookup retrieval.

```
'Create the object.
pClient = CreateObject("PCDClient.PCDLookup")
'Set the DM security token.
pClient.SetDST(strDST)
'Set the form.
pClient.SetSearchObject("cyd_defprof")
'Set the lookup ID.
pClient.SetLookupId("DEPL_PACKAGES")
'Set the target property.
pClient.SetTargetProperty("PACKAGE_ID")
'Add search library.
pClient.AddSearchLib("CurrentLibrary")
'Execute the search.
pclient.Execute()
'Get the data.
strPkqID = pClient.GetMetaPropertyValue("%Data")
'Report the data in whatever way is required.
MsgBox("The name of the Deployment Package
Initialization file"_
& " is: " & strPkgID)
```

See the PCDLookup object.

See the GetMetaPropertyValue method.

See the following tokens:

%PROPERTYNAME %PROPERTYTYPE %TITLE %VISIBLE

%DELETE ALL

This token is used with the SetProperty method that PCDDocObject supports. Used with the %DELETE_OPTION token, it allows deletion of both the profile and the content of DM objects.

Syntax

Parameters

%DELETE_OPTION The token that indicates the content, or

the content and the profile, is to be

deleted from a DM object.

%DELETE_ALL The token that both the profile and the

content of the DM object are to be

deleted.

Example

See the %DELETE_OPTION Example on page 319.

Related Items

See the PCDDocObject object.

See the following methods:

Delete

SetProperty

See the following tokens:

%DELETE_EXPUNGE %DELETE_OPTION

%DELETE_PHYSICAL_FILES

%DELETE_EXPUNGE

This token is reserved for future use. At the current time, it is not supported for use by the DM API.

Related Items

See the PCDDocObject object.

See the following methods:

Delete SetProperty

See the following tokens:

%DELETE_ALL %DELETE_OPTION %DELETE_PHYSICAL_FILES

%DELETE_OPTION

This token is used with the SetProperty method that PCDDocObject supports. It allows deletion of either the content or both the profile and the content of DM objects.

Syntax

Parameters

%DELETE_OPTION The token that indicates the content, or

the content and the profile, is to be

deleted from a DM object.

strDeleteCmd The token that indicates the type of

delete operation that is to occur. This

variable must resolve either to

"%DELETE_PHYSICAL_FILES or to

"%DELETE_ALL".

See the PCDDocObject object.

See the following methods:

Delete SetProperty

See the following tokens:

%DELETE_ALL

%DELETE_EXPUNGE

%DELETE_PHYSICAL_FILES

%DELETE_PHYSICAL_FILES

This token is used with the SetProperty method that PCDDocObject supports. It allows deletion of the content of DM objects. It does not delete the profile of DM objects whose content is deleted.

Syntax

Parameters

%DELETE_OPTION The token that indicates the content, or

the content and the profile, is to be

deleted from a DM object.

%DELETE_PHYSICAL_

FILES

The token that only the content of the DM object is to be deleted. The profile of

the DM object will not be deleted.

Example

See the %DELETE_OPTION Example on page 319.

Related Items

See the PCDDocObject object.

See the following methods:

Delete

SetProperty

See the following tokens:

%DELETE_ALL

%DELETE_EXPUNGE

%DELETE_OPTION

%DELETE_PHYSICAL_FILES

%DOCS LIBRARY NAME

When used with the PCDSearch object, this token retrieves the library name associated with the document specified in the search. When used with the PCDPropertyLists object, it retrieves the library name associated with the current row of the list.

Syntax

```
PCDPropertyLists.GetCurrentPropertyName( _
                      "%DOCS LIBRARY NAME")
PCDSearch.AddReturnProperty( _
                      "%DOCS_LIBRARY_NAME")
```

Parameters

%DOCS_LIBRARY_NAME

The token identifier that indicates that the name of the library is to be extracted from the property list or search results.

```
'Create a PCDSearch object.
pRelated = CreateObject("PCDClient.PCDSearch")
'Check for errors.
checkError(pRelated, "ERROR_CREATESEARCH")
'Set the search object.
pRelated.SetSearchObject('RelatedItemsSearch')
'Set the DM security token.
pRelated.SetDST(strDST)
'Add the current library.
pRelated.AddSearchLib(strLibName)
'Set the number of the document to get.
pRelated.AddSearchCriteria("%OBJECT_IDENTIFIER",doc
num)
'Define the properties to be returned.
pRelated.AddReturnProperty("DOCNUMBER")
```

pRelated.AddReturnProperty("%DOCS_LIBRARY_NAME")

'Execute the search. pRelated.Execute

Related Items

See the following objects:

PCDPropertyLists PCDSearch

See the following methods:

AddReturnProperty
GetCurrentPropertyName

%DOCUMENT NUMBER

This token is used to specify the document number of the profiled item that the application requires.

Syntax

```
PCDDocObject.SetProperty("%DOCUMENT_NUMBER",
                       "strDocNum")
```

Parameters

The token identifier indicating that the %DOCUMENT_NUMBER

document number is identified in this

program statement.

The value from the DOCNUMBER strDocNum

column of the PROFILE table.

```
'Create an object to use to send the contents of
the document.
pPutDoc = CreateObject( "PCDClient.PCDPutDoc.1" )
'Check for errors.
checkError( pPutDoc, "ERROR_CREATEPUTDOC" )
'Set the DM security token.
pPutDoc.SetDST( strDST )
'Constrain the search to the library, document
number,
'and version.
pPutDoc.AddSearchCriteria( "%TARGET_LIBRARY",
library )
pPutDoc.AddSearchCriteria( "%DOCUMENT_NUMBER",
docnum )
pPutDoc.AddSearchCriteria( "%VERSION_ID",
version id )
'Find the document.
pPutDoc.Execute()
'Check for errors.
```

See the PCDDocObject object. See the SetProperty method.

%EFFECTIVE_RIGHTS

Each document can be accessed by many users, and it can be customized. Using the Access control on the profile form, an author or document administrator can grant various access permissions to other users.

Syntax

```
PCDDocObject.GetReturnProperty( _
                      "%EFFECTIVE_RIGHTS")
```

Parameters

%EFFECTIVE RIGHTS

The token identifier that requests the application to provide the access rights that the current document allows for the current user.

Usage

The HasRight method lists the tokens that %EFFECTIVE_RIGHTS supports. See the discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's DM security (DST).
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name, document number, and
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

```
pDocObject.SetProperty("%VERSION_ID", version)
'Get the requested information.
pDocObject.Fetch()
'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")
'Get the user's effective rights for this document
object.
Set intAccessRights = pDocObject.GetReturnProperty(
                             "%EFFECTIVE_RIGHTS")
'Make sure user has rights to edit the profile.
If Not (pDocObject.HasRight("%PR_EDIT",
intAccessRights)) Then
'The user cannot edit this document.
Fnd Tf
Related Items
See the PCDDocObject object.
See the following methods:
GrantRight
HasRight
RevokeRight
See the following tokens:
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
```

%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW

%PR_EDIT %PR_VIEW %RIGHT8 %RIGHT9

%ELAPSED TIME

This token sets the ELAPSED_TIME column of the ACTIVITYLOG table with the amount of time that the specified document was open for edit or new version activity.

Syntax

PCDDocObject.SetProperty("%ELAPSED_TIME", _ iElapsedTime)

Parameters

%ELAPSED_TIME The token identifier that indicates that

this command line contains the elapsed

time value.

iElapsedTime The elapsed time (in seconds) that the

specified document was open for edit or

new version activity.

```
'Create the object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError( pDocObject, "ERROR_CREATEDOCOBJECT" )
'Set the login security information (DST).
pDocObject.SetDST( strDST )
'Use the cyd_defprof form file to set the object
properties.
pDocObject.SetObjectType("cyd_defprof")
'Set the library.
pDocObject.SetProperty( "%TARGET_LIBRARY", library
)
'Set the object number.
pDocObject.SetProperty( "%OBJECT_IDENTIFIER",
docnum )
```

```
'Set the version number.
pDocObject.SetProperty( "%VERSION_ID", version_id )
'Lock the document for checkout.
pDocObject.SetProperty( "%STATUS",
"%LOCK_FOR_CHECKOUT" )
'Set the elapsed time.
pDocObject.SetProperty( "%ELAPSED_TIME",
iElapsedTime )
```

See the PCDDocObject object.
See the SetProperty method.
See the following tokens:
%CHECKIN_DATE
%CHECKOUT_COMMENT

%ENCAPSULATION TYPE

When users indicate that they want to view documents, those documents must be transferred from the server as data streams. There are 3 stream types:

- HTML streams, where documents are converted HTML streams,
- Native streams, where the MIME type of the transferred documents is used to control their display, and
- RIFF streams, where the DM viewer is used to display documents.

The **%ENCAPSULATION_TYPE** token is used to convert documents into RIFF streams.

Syntax

```
PCDGetDoc.AddSearchCriteria( _
          "%ENCAPSULATION_TYPE", "RIFF")
```

Parameters

The token identifier that indicates that %ENCAPSULATION_TYPE

the encapsulation type is being set.

RIFF The keyword that indicates that the

encapsulation type is being set to

"RIFF".

Usage

At the present time, "RIFF" is the only value that **%ENCAPSULATION_TYPE** supports.

```
'Create the PCDGetDoc object.
pGetDoc = CreateObject("PCDClient.PCDGetDoc.1")
'Check for errors.
checkError(pGetDoc, "ERROR_CREATESEARCH")
'Set the DM security token.
pGetDoc.SetDST(strDST)
'Check whether it is for the DM Viewer.
```

```
If (rendition = "riff") Then
pGetDoc.AddSearchCriteria("%ENCAPSULATION_TYPE",
"RIFF")
End If
'Retrieve the document objects.
pGetDoc.Execute
```

See the PCDGetDoc object.
See the AddSearchCriteria method.

%FILTER DISABLED ROWS

Some tables have a DISABLED column, which allows the system to specify that a row is disabled. Use this token to exclude such rows from a search result set.

Syntax

```
PCDLookup.AddUserFilterCriteria( _
          "%FILTER_DISABLED_ROWS", "Y")
```

Parameters

%FILTER_DISABLED_ROWS The token identifier that indicates that

this command line will specify whether disabled rows are to be filtered or not.

Υ Yes, disabled rows are to be filtered out

of the result set. (Because the default setting is not to exclude disabled rows. the Server ignores any non-Y value.)

Usage

Because, the default setting is not to exclude disabled rows, the Server ignores any non-Y value.

Example

```
'Create a look-up object.
pSearch = CreateObject ("PCDClient.PCDLookup.1")
'Tell the DM Server to exclude disabled rows.
pSearch.AddUserFilterCriteria("%FILTER_DISABLED_ROW
S","Y")
'Delete the object.
delete pSearch
```

Related Items

See the PCDLookup object.

See the AddUserFilterCriteria method.

%FOLDERITEM LIBRARY NAME

When a new item is being linked, or added to, a folder, this token identifies the name of the home library that contains this document or folder.

Syntax

Parameters

%FOLDERITEM_LIBRARY_

NAME

The token identifier that indicates the current command line identifies the library where the specified folder item

resides.

strLibName The name of the library. This value is

obtained from the LIBRARY_NAME column of the REMOTE_LIBRARIES

table.

Usage

If this is not set, the default setting points to the home library of container folder.

```
'Create a doc object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type
pDocObject.SetObjectType("ContentItem")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strFolderLib)
'Set the parent folder.
```

```
pDocObject.SetProperty("PARENT", folderNum)
'Set the parent folder's version.
pDocObject.SetProperty("PARENT_VERSION",
folderVersion)
'Set the document number.
pDocObject.SetProperty("DOCNUMBER",docNum)
'Set the library name.
pDocObject.SetProperty("%FOLDERITEM_LIBRARY_NAME",
itemLib)
'Create the object.
pDocObject.Create()
```

See the PCDDocObject object. See the SetProperty method.

%FORM APPLICATION

When used with the PCDPropertyList object, this token retrieves the application ID associated with the form. When used with the PCDDocObject object, this token can be used to set the application ID that is associated with a form.

Syntax

```
PCDPropertyList.GetCurrentPropertyValue( _ "%FORM_APPLICATION")

PCDDocObject.SetProperty("%FORM_APPLICATION", _ appID)
```

Parameters

%FORM_APPLICATION The token identifier that indicates the

application ID for the specified form either is being set or retrieved.

appID The application ID for this form.

```
'Create a document object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")

'Set the DM security token.
pDocObject.SetDST(strDST)

'Set the object type.
pDocObject.SetObjectType("DocsForm")

'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY",
"CurrentLibrary")

'Set the form name.
pDocObject.SetProperty("%FORM_NAME", frmName)
```

'Set the app ID for the form. pDocObject.SetProperty("%FORM_APPLICATION", appID)

'Retrieve the requested information. pDocObject.Fetch()

Related Items

See the following objects:

PCDDocObject PCDPropertyList

See the following methods:

GetCurrentPropertyValue SetProperty

See the %FORM_NAME token.

%FORM_DEFAULT_PRIMARY

Use this token to identify the default profile form.

Syntax

Parameters

%FORM_DEFAULT_PRIMARY The token identifier that indicates the default profile form is to be returned.

Usage

Returns "Y" if the form in the current return properties data set is the default profile form. Otherwise, "N" is returned.

```
'Create a doc object and a property list object.
Dim pDocObject As PCDClient.PCDDocObject
Dim pFormProperties As PCDClient.PCDPropertyList
'Set the DM security token.
pDocObject.SetDST(strDST)
'Check for errors.
checkError(pDocObject,"ERROR_CREATESEARCH")
'Set the object type.
pDocObject.SetObjectType("DocsFormsList")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
'Set the search type.
pDocObject.SetProperty("%FORM_LIST_TYPE",
"%HITLIST")
'Get the results.
pDocObject.Fetch()
'Check for errors.
```

```
checkError(pDocObject, "ERROR_SEARCH")
'Get all the properties.
Set pFormProperties =
pDocObject.GetReturnProperties()
Dim intNumRows As Integer
Set intNumRows = pFormProperties.RowCount()
Dim pProperties As New pFormProperties
Dim strFormName As String
Dim intCounter As Integer, strCounter As String
for (intCounter = 1 To intNumRows)
Set pProperties =
pFormProperties.GetCurrentPropertyValue()
If (pProperties.GetPropertyValue( _
             "%FORM_DEFAULT_PRIMARY") = "Y") Then
Set strFormName =
pProperties.GetPropertyValue("%FORM_NAME")
Set strCounter = CStr(intCounter)
MsgBox(strFormName & " is the default form. It is
at " _
            & "row number " & StrCounter & ".")
End If
Next intCounter
```

See the PCDPropertyList object. See the GetPropertyValue method.

%FORM LIST TYPE

This token is used to perform a search of a form. Returns a list properties describing the form.

Syntax

Parameters

%FORM_LIST_TYPE The token that indicates the current

command line identifies the type of form that the list operation is to retrieve.

strFormType A string variable or quoted string that

contains the form type that the list is to

contain.

Usage

The %FORM_LIST_TYPE token can take any of the following form types as its second parameter:

- %HITLIST
- %PROFILE
- %SEARCH

```
'Create a doc object.
Set pDMObj =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM security token.
pDMObj.SetDST(strDST)
'Set the object type.
pDMObj.SetObjectType("DocsFormsList")
'Set the destination library.
pDMObj.SetProperty("%TARGET_LIBRARY", lib)
'Search for the profile forms.
```

pDMObj.SetProperty("%FORM_LIST_TYPE", "%PROFILE")

'Run the search. pDMObj.Fetch()

Related Items

See the PCDDocObject object. See the SetProperty method.

%FORM NAME

Use this token to set the name of a form that a search operation uses. After a search has been performed, this token can also be used to retrieve the name of the form used in the search.

Syntax

Parameters

%FORM_NAME The token identifier that indicates a form

name is either being specified or

requested.

strFormName The name of the form that is to be used

for the search.

```
'Create a doc object.
Set pClient =
CreateObject("PCDClient.PCDDocObject.1")

'Check for errors.
checkError(pClient, "ERROR_CREATESEARCH")

'Set the DM security token.
pClient.SetDST(strDST)

'Set the search object.
pClient.SetObjectType("DocsForm")

'Set the library that is to be searched.
pClient.SetProperty("%TARGET_LIBRARY", library)

'Set the form ID.
pClient.SetProperty("%OBJECT_IDENTIFIER", formId)

'Fetch the search results.
pClient.Fetch()
```

```
'Check for errors.
checkError(pClient,
"ERROR_DOCPROFILEDSP_PROFINFOEXECUTE")
'Get the returned properties.
Set pProperties = pClient.GetReturnProperties()
'Get the form name.
formName =
pProperties.GetPropertyValue("%FORM_NAME")
```

See the following objects:

PCDDocObject PCDPropertyList

See the following methods:

GetPropertyValue SetProperty

See the %FORM_APPLICATION token.

%FORM PROFILE DEFAULTS

Use this token to retrieve the default settings for a form.

Syntax

Parameters

%FORM_PROFILE_ DEFAULTS The token identifier that returns the default settings for a form.

Usage

This token returns a two-dimension safe array of property name and property value pairs. Use the GetCurrentPropertyName and GetCurrentPropertyValue to iterate through the returned data set containing the default settings.

```
'create the doc object
Set pDocObj =
CreateObject("PCDClient.PCDDocObject")

'Check for errors.
If Not (checkError = 0) Then
'Process the error.
End If

'Set the DM security token.
pDocObj.SetDST(strDST)

'Set the search form.
pDocObj.SetObjectType("MySearchForm")

'Set the library.
pDocObj.SetProperty("%TARGET_LIBRARY", "MyLib")

'Set the ID number of the document that is to be fetched.
```

```
pDocObj.SetProperty("%OBJECT_IDENTIFIER", 1234)
'Get the document.
pDocObi.Fetch()
'Instantiate a PCDPropertyList object.
pPropList = pDocObj.GetReturnProperties()
'Populate a property list with the profile
defaults.
pProfDefaults = pPropList.GetPropertyValue(
                     "%FORM_PROFILE_DEFAULTS")
'Check for errors.
If Not( pPropList.ErrNumber = 0) Then
'Process the error.
End If
'Iterate through the default properties.
pProfDefaults.BeginIter()
while( pProfDefaults = 0)
strPropName =
pProfDefaults.GetCurrentPropertyName()
strPropValue =
pProfDefaults.GetCurrentPropertyValue()
'Process the current property.
'Set the pointer to process the next property
value.
pProfDefaults.NextProperty()
Wend
Related Items
See the PCDPropertyList object.
```

See the GetPropertyValue method.

%FORM TITLE

This token is used to get the form title from the search result set. It is usually used when searching for a particular form or a collection of forms.

Syntax

PCDPropertyList.GetPropertyValue("%FORM_TITLE
")

Parameters

%FORM_TITLE

The token that indicates the title of the form is to be returned by the fetch operation.

```
'Ccreate a doc object.
Set pClient =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError(pClient, "ERROR_CREATESEARCH")
'Set the DM security token.
pClient.SetDST(strDST)
'Set the search object.
pClient.SetObjectType("DocsForm")
'Set the library that is to be searched.
pClient.SetProperty("%TARGET_LIBRARY", library)
'Set the form ID.
pClient.SetProperty("%OBJECT_IDENTIFIER", formId)
'Retrieve the search values.
pClient.Fetch()
'Get the returned properties.
Set pProperties = pClient.GetReturnProperties()
'Get the form name.
```

formName = pProperties.GetPropertyValue("%FORM_TITLE")

Related Items

See the PCDPropertyList object. See the GetPropertyValue method.

%FT_CHARACTER_SET

This token is used to specify a character set for documents rendered in HTML format.

Syntax

Parameters

%FT_CHARACTER_ SET The token identifier that indicates this

command statement contains a

character set value.

intCharSetID The number that identifies the character

set that is to control how HTML

documents are rendered.

Usage

Because of the way the bits are set, the character set ID number is usually shown as a hexadecimal number. For example, to render HTML in Japanese, set the character-set ID to 0x13A40000. The setting for Korean is 0x13B50000.

```
'Create a doc object.
pGetDoc = CreateObject("PCDClient.PCDGetDoc.1")
'Check for errors.
checkErrorPortal( pGetDoc )
'Set the DM security token.
pGetDoc.SetDST(strDST)
'Specify the character set.
pGetDoc.AddSearchCriteria("%FT_CHARACTER_SET",
code)
'Execute the search.
pGetDoc.Execute()
```

Related Items

See the PCDGetDoc object. See the AddSearchCriteria method.

%FT CONFIDENCE

This token is used when a full text search is performed. It expresses the relevance of a document returned by the search to the search criteria. The relevance value is expressed as a value from 1 to 5, with 1 representing greater relevance and 5 representing lesser relevance.

Syntax

PCDSearch.AddReturnProperty("%FT_CONFIDENCE")

Parameters

%FT CONFIDENCE

The token identifier that indicates that a relevance value is to be returned as part of the search process.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")

'Add the confidence.
pClient.AddReturnProperty("%FT_CONFIDENCE")

'Execute the search.
pClient.Execute()

'Create a variable to hold the retrieved search value.
Dim vValue As Variant

'Retrieve the data.
vValue = pClient.GetPropertyValue("%FT_CONFIDENCE")
```

Related Items

'Process the data.

See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:

%FT_FORMAT %FT_MARKER_LIST %FT_SCORE %FT_TIMESTAMP %FT_VCC_LIST %FT_VCC_RULES %SCORE_GRAPHIC %SCORE_PERCENT

%FT FORMAT

This token is used when a full text search is performed. This token specifies the document format. It is required by DM Viewer so search documents can be rendered properly.

Syntax

PCDSearch.AddReturnProperty("%FT_FORMAT")

Parameters

%FT_FORMAT

A token that specifies the document format so that the DM Viewer can render it properly.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")
'Document format identifier used by DM Viewer.
pClient.AddReturnProperty("%FT_FORMAT")
'Execute the search.
pClient.Execute()
'Create a variable to hold the retrieved search value.
Dim vValue As Variant
'Retrieve the data.
vValue = pClient.GetPropertyValue("%FT_FORMAT")
'Process the data.
```

Related Items

See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE
%FT_MARKER_LIST

%FT_SCORE %FT_TIMESTAMP %FT_VCC_LIST %FT_VCC_RULES %SCORE_GRAPHIC %SCORE_PERCENT

%FT MARKER LIST

This token is used when a full text search is performed. It allows the SearchServer[™] to mark search terms in PDF files.

Syntax

PCDSearch.AddReturnProperty("%FT_MARKER_LIST"
)

Parameters

%FT_MARKER_LIST

The token allows the SearchServer to mark search text in PDF files.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")
'This is used by the SearchServer when searching
PDF files.
pClient.AddReturnProperty("%FT_MARKER_LIST")

'Execute the search.
pClient.Execute()

'Create a variable to hold the retrieved search
value.
Dim vValue As Variant

'Retrieve the data.
vvalue =
pClient.GetPropertyValue("%FT_MARKER_LIST")

'Process the data.
```

Related Items

See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE

%FT_FORMAT %FT_SCORE %FT_TIMESTAMP %FT_VCC_LIST %FT_VCC_RULES %SCORE_GRAPHIC %SCORE_PERCENT

%FT SCORE

This token is used when a full text search is performed. It expresses the relevance of the search criteria to the document. The relevance score is expressed as a percentage.

Syntax

PCDSearch.AddReturnProperty("%FT_SCORE")

Parameters

%FT_SCORE

This token returns the relevance score of the search results as a percentage value.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")
'Return a percentage-based relevance score.
pClient.AddReturnProperty("%FT_SCORE")

Execute the search.
pClient.Execute()

'Create a variable to hold the retrieved search value.
Dim vValue As Variant
'Retrieve the data.
vValue = pClient.GetPropertyValue("%FT_SCORE")
'Process the data.
```

Related Items

```
See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE
%FT_FORMAT
```

%FT_MARKER_LIST %FT_TIMESTAMP %FT_VCC_LIST %FT_VCC_RULES %SCORE_GRAPHIC %SCORE_PERCENT

%FT SMART DOCUMENT

This token is used to convert the output stream into a MIME-encapsulated, aggregate HTML (MHTML) stream. With Internet Explorer, version 4 or later, the DM Server can send in a single stream both the HTML document and all referenced images.

Syntax

Parameters

%FT_SMART_DOCUMENT The token identifier that instructs the DM

Server to send referenced images in the same output stream as it uses for the

HTML document.

The setting value that activates this

token.

Usage

Setting %FT_SMART_DOCUMENT equal to "1" causes the server to send referenced images with the HTML document. Any other value is ignored.

```
'Create a doc object.
pGetDoc = CreateObject("PCDClient.PCDGetDoc.1")

'Check for errors.
checkErrorPortal( pGetDoc )

'Set the DM security token.
pGetDoc.SetDST(strDST)

'Tell server to send referenced images with the
HTML document.
pGetDoc.AddSearchCriteria("%FT_SMART_DOCUMENT","1")
'Get the document.
```

Related Items

See the PCDGetDoc object. See the AddSearchCriteria method.

%FT TIMESTAMP

This token is used when a full text search is performed. It returns the last time the object was modified.

Syntax

PCDSearch.AddReturnProperty("%FT_TIMESTAMP")

Parameters

%FT_TIMESTAMP

Return timestamp information about the search object.

Usage

The search returns timestamp information expressed in Unix format, showing the number of seconds since January 1, 1970 at 12:00 A.M.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")
'Return timestamp information.
pClient.AddReturnProperty("%FT_TIMESTAMP")
'Execute the search.
pClient.Execute()
'Create a variable to hold the retrieved search value.
Dim vValue As Variant
'Retrieve the data.
vValue = pClient.GetPropertyValue("%FT_TIMESTAMP")
'Process the data.
```

Related Items

See the PCDSearch object.
See the AddReturnProperty method.

See the following tokens:

%FT_CONFIDENCE

%FT_FORMAT

%FT_MARKER_LIST

%FT_SCORE

%FT_VCC_LIST

%FT_VCC_RULES

%SCORE_GRAPHIC

%SCORE_PERCENT

%FT VCC LIST

This token is used when a full-text search is performed. It highlights the search term in any documents returned by the search operation.

Syntax

PCDSearch.AddReturnProperty("%FT_VCC_LIST")

Parameters

%FT_VCC_LIST

Highlight the search terms in the search results.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")
'Highlight the search term in the results.
pClient.AddReturnProperty("%FT_VCC_LIST")

'Execute the search.
pClient.Execute()

'Create a variable to hold the retrieved search value.
Dim vValue As Varient
'Retrieve the data.
vValue = pClient.GetPropertyValue("%FT_VCC_LIST")

'Process the data.
```

Related Items

```
See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE
%FT_FORMAT
%FT_MARKER_LIST
```

%FT_SCORE %FT_TIMESTAMP %FT_VCC_RULES %SCORE_GRAPHIC %SCORE_PERCENT

%FT_VCC_RULES

This token is used when a full-text search is performed. It is used by the DM Viewer to determine how characters should be counted.

Syntax

PCDSearch.AddReturnProperty("%FT_VCC_RULES")

Parameters

%FT_VCC_RULES

The token identifier that specifies rules the DM Viewer uses to count characters.

Example

```
'Create a search object.

Set pClient = CreateObject("PCDClient.PCDSearch.1")

'Set viewer rules for counting characters.
pClient.AddReturnProperty("%FT_VCC_RULES")

'Execute the search.
pClient.Execute()

'Create a variable to hold the retrieved search value.
Dim vValue As Variant

'Retrieve the data.
vValue = pClient.GetPropertyValue("%FT_VCC_RULES")

'Process the data.
```

Related Items

See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE
%FT_FORMAT
%FT_MARKER_LIST

%FT_SCORE %FT_TIMESTAMP %FT_VCC_LIST %SCORE_GRAPHIC %SCORE_PERCENT

%GET ALL RELATED

Use this token to get all items that relate to the search item, whether they are located in the same library as the search item or in remote libraries.

Syntax

Parameters

%GET_RELATED_ITEMS This token identifier indicates that a

search parameter is to be set that indicates whether local or remote libraries are to be searched.

%GET_ALL_RELATED This token identifier indicates that both

library that contains the search object and remote libraries are to be searched

for related items.

'Set the related token. pRelated.AddSearchCriteria("%GET_RELATED_ITEMS", _ "%GET_ALL_RELATED")

Related Items

See the PCDSearch object.

See the AddSearchCriteria method.

See the following tokens:

%GET_LOCAL_RELATED

%GET_RELATED_ITEMS

%GET_REMOTE_RELATED

%GET LOCAL RELATED

Use this token to get all the documents related to the search item that are in the same library as the search object.

Syntax

Parameters

%GET_RELATED_ITEMS This token identifier indicates that a

search parameter is to be set that indicates whether local or remote libraries are to be searched.

%GET_LOCAL_RELATED This token identifier indicates that only

the library that contains the search object is to be searched for related

items.

"%GET_LOCAL_RELATED")

Related Items

See the PCDSearch object.

See the AddSearchCriteria method.

See the following tokens:

%GET_ALL_RELATED

%GET_RELATED_ITEMS

%GET_REMOTE_RELATED

%GET_RELATED_ITEMS

This token indicates that the search should return related items.

Syntax

PCDSearch.AddSearchCriteria(_

"%GET_RELATED_ITEMS", _
strTypeOfRelatedSearch)

Parameters

%GET_RELATED_ITEMS This token identifier indicates that a

search parameter is to be set that indicates whether local or remote libraries are to be searched.

strTypeOfRelatedSearch A string variable or quoted literal that

resolves to one of the search types that the %GET_RELATED_ITEMS token

supports.

Usage

The %GET_RELATED_ITEMS token supports the following search types:

- Searches across both local and remote libraries, using the %GET_ALL_RELATED token.
- Searches only the library only, using the %GET_LOCAL_RELATED token.
- Searches only libraries that are remote to the current document object, using the %GET_REMOTE_RELATED token.

Example

See the %GET_ALL_RELATED Example on page 365 or the %GET_LOCAL_RELATED Example on page 367.

Related Items

See the PCDSearch object.

See the AddSearchCriteria method.

See the following tokens:

%GET_ALL_RELATED ${\tt \%GET_LOCAL_RELATED}$ %GET_REMOTE_RELATED

%GET REMOTE RELATED

This token indicates that the search should only return related items that are located in document libraries that are remote to the library that contains search document.

Syntax

Parameters

%GET_RELATED_ITEMS This token identifier indicates that a

search parameter is to be set that indicates whether local or remote libraries are to be searched.

%GET_REMOTE_RELATED

This token identifier indicates that the search is to retrieve related documents only from libraries that are remote to the library that contains the search object.

'Set the related token. pRelated.AddSearchCriteria("%GET_RELATED_ITEMS", _ "%GET_REMOTE_RELATED")

Related Items

See the PCDSearch object.

See the AddSearchCriteria method.

See the following tokens:

%GET_ALL_RELATED

%GET_LOCAL_RELATED

%GET_RELATED_ITEMS

%HAS SUBFOLDERS

This token is used if a folder has subfolders.

Syntax

Parameters

%HAS_SUBFOLDERS

The token that identifies whether or not the current folder has subfolders within it.

Usage

If the current folder has subfolders of its own, the %HAS_SUBFOLDERS token returns the value of "Y".

```
'Create a property list object.
Set PropLists =
CreateObject("PCDClient.PCDPropertyLists")
'Set the DM security token.
PropLists.SetDST(strDST)
'Set the search type.
PropLists.SetObjectType("ContentsCollection")
'Execute the search.
PropLists.Execute()
'Initialize the row pointer.
PropLists.SetRow(0)
'Check results.
while ( PropLists.NextRow())
hasSubFolder =
PropLists.GetPropertyValue("%HAS_SUBFOLDERS")
If( hasSubFolder ) Then
MsqBox( "This property list object has
subfolders.")
```

Else MsgBox("This property list object has no subfolders.") End If PropLists.NextRow wend

Related Items

See the PCDPropertyLists object. See the GetPropertyValue method.

%HITLIST

This token is used with the **%FORM_LIST_TYPE** token to retrieve data items referenced on a **HITLIST** form.

Syntax

Parameters

%FORM_LIST_TYPE The token identifier that indicates the

current command line identifies the type

of form that the list operation is to

retrieve.

%HITLIST The token identifier that indicates a

HITLIST search is to take place.

```
'Create an object to get property info about forms.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Check for errors.
checkError(pDocObject,"ERROR_CREATESEARCH")
'Identify the form to search.
pDocObject.SetObjectType("DocsFormsList")
'Set the destination library.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
'Set the form type.
pDocObject.SetProperty("%FORM_LIST_TYPE",
"%HITLIST")
'Run the search.
pDocObject.Fetch()
```

Related Items

See the PCDDocObject object. See the SetProperty method. See the following tokens: %FORM_LIST_TYPE %PROFILE %SEARCH

%ISTREAM_STATSTG_CBSIZE_LOWPART

This token returns the size of a stream.

Syntax

Parameters

%ISTREAM_STATSTG_ CBSIZE_LOWPART The token that returns the size of the content stream in bytes.

Example

Related Items

See the PCDGetStream object.
See the GetPropertyValue method.
See the %CONTENT token.

%LOCK

This token is used in conjunction with the %STATUS token to lock a document. See %STATUS for further information.

Syntax

PCDDocObject.SetProperty("%STATUS", "%LOCK")

Parameters

%STATUS The token that indicates that this

command statement adjusts the status

of the document.

%LOCK The token identifier that indicates that

the DM system should lock the

document.

Example

See the %STATUS example on page 450.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%LOCK_FOR_CHECKOUT

%MAKE_READ_ONLY

%REMOVE_READ_ONLY

%STATUS **%UNLOCK**

%LOCK_FOR_CHECKOUT

This token is used in conjunction with the %STATUS token to lock and check out a document. See %STATUS for further information.

Syntax

Parameters

%STATUS The token that indicates that this

command statement adjusts the status

of the document.

%LOCK_FOR_CHECKOUT The token identifier that indicates that

the DM system should lock the document and check it out to the

specified user.

Example

See the %STATUS example on page 450.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%LOCK

%MAKE_READ_ONLY

%REMOVE_READ_ONLY

%STATUS %UNLOCK

%LOOKUP ID

This token is used to set the ID of the hit-list form that controls the data that will be returned by the look-up operation.

Syntax

```
PCDDocObject.SetProperty("%LOOKUP_ID", _
                      strHitlistName)
```

Parameters

The token identifier that informs the DM %LOOKUP ID

> Server of the name of the hit-list form it will use in the current look-up operation.

strHitlistName A string variable or literal string in double

> quotes that resolves to the name of the hit-list form that is to be used in the look-

up operation.

```
'Create a doc object.
Set pHitlist =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM security token.
pHitlist.SetDST(strDST)
'Set the object type equal to the hit-list form
that
'controls this look-up operation.
pHitlist.SetObjectType("Hitlist")
'Set the target library.
pHitlist.SetProperty("%TARGET_LIBRARY", library)
'The system ID of the hit-list form.
pHitlist.SetProperty("%LOOKUP_ID", hitlistName)
'Run the search.
pHitlist.Fetch()
```

See the PCDDocObject object. See the SetProperty method.

%MAKE READ ONLY

This token is used in conjunction with the %STATUS token to set a document so it cannot be altered. See %STATUS for further information.

This token is also used with the **%VERSION_DIRECTIVE** token to set a version so it cannot be altered. See %VERSION_DIRECTIVE for further information.

Syntax

PCDDocObject.SetProperty("%STATUS", _ "%MAKE READ ONLY") PCDDocObject.SetProperty("%VERSION_DIRECTIVE" "%MAKE READ ONLY")

Parameters

%STATUS The token that indicates that this

command statement adjusts the status

of the document.

%VERSION DIRECTIVE The token that indicates that this

> command statement adjusts the document version settings.

%MAKE READ ONLY The token identifier that indicates that

the document or version should be set to

read only.

Usage

Do the following to make a document read only:

- 1 Create a PCDClient.PCDDocObject.
- **2** Set the object type to whatever value is appropriate.
- **3** Set the DM security token (DST).
- **4** Set the %TARGET_LIBRARY token equal to the library name.
- **5** Set the **%OBJECT_IDENTIFIER** token equal to the document number of the item that is to be made read only.

6 If working with a document, set the %STATUS token equal to %MAKE_READ_ONLY, indicating that you want to make this document read only.

If working with a document version, set the %VERSION_DIRECTIVE token equal to %MAKE_READ_ONLY, indicating that you want to make this version read only.

7 Execute the Update method.

The <code>%MakeReadOnly</code> token returns <code>SUCCESS</code> if the document was made read only. If the user does not have sufficient security rights to make the document or version read only, then a <code>PCD_ERR_INSUFFICIENT_RIGHTS</code> error is returned.

Example

See the %STATUS example on page 450. See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%STATUS

%REMOVE_READ_ONLY

%VERSION_DIRECTIVE

%MAXDAYS

If there are many entries in the ACTIVITY table, a search for recently edited documents (RED) can return many records. The %MAXDAYS token can be used to limit the number of days that a RED search examines.

Syntax

PCDRecentDoc.AddSearchCriteria("%MAXDAYS", "30")

PCDSearch.AddSearchCriteria(_ "%MAXDAYS", strNumDays)

Parameters

The token identifier that indicates that **%MAXDAYS**

the maximum number of days is being

set for the current search.

"30" Specifies that the search is to retrieve

documents edited during the previous

30 days.

strNumDays A string variable that contains the

number of days that the RED search is

to examine.

Usage

If the %MAXDAYS token is not set as one of the search criteria, the default is to search for documents edited during the previous 90 days.

Example

See the AddSearchCriteria example on page 119.

Related Items

See the following objects:

PCDRecentDoc PCDSearch

See the AddSearchCriteria method.

%NUM COMPONENTS

Where the document is comprised of multiple files (for example, as is the case with some CAD/CAM engineering software), use this token to get the number of components that comprise the current document. For documents that are not comprised of multiple files, the <code>%NUM_COMPONENTS</code> token returns the number of properties returned in the search result set. (This same value is returned by use of the <code>GetRowsFound</code> method.)

Syntax

PCDGetDoc.GetPropertyValue("%NUM_COMPONENTS")

Parameters

%NUM_COMPONENTS

The token identifier that returns either the number of components (for a multifile document) or the number of rows in the search result data set.

Usage

The value that <code>%NUM_COMPONENTS</code> returns is only available after the search is executed until the <code>SetRow</code> or <code>NextRow</code> methods are called.

Example

See the %CONTENTS example on page 282.

Related Items

See the PCDGetDoc object.

See the GetPropertyValue method.

%OBJECT_IDENTIFIER

The **%OBJECT IDENTIFIER** token is used to set the document ID number of a document or or to retrieve a search object's identifier.

Syntax

```
PCDDocObject.SetProperty("%OBJECT_IDENTIFIER"
                  lDocID)
PCDSearch.AddSearchCriteria( _
        "%OBJECT_IDENTIFIER", 1DocID)
PCDSearch.GetPropertyValue( _
                  "%OBJECT_IDENTIFIER")
```

Parameters

%OBJECT IDENTIFIER The token identifier that indicates that

this command line involves a document

ID number.

IDocID If the document ID number is being set,

this is the value that is to be used.

```
'Create a search object.
Set pSearch = CreateObject("PCDClient.PCDSearch")
'Check for errors.
checkError(pSearch,
"ERROR_CREATECSIOBJECT_PCDSearch")
'Set the DM security token.
pSearch.SetDST(strDST)
'Add the search library.
pSearch.AddSearchLib(library)
'Identify the search form.
pSearch.SetSearchObject("VersionsSearch")
```

'Add the system ID.
pSearch.AddSearchCriteria("%OBJECT_IDENTIFIER",
lDocNum)

'Execute the search. pSearch.Execute()

Related Items

See the following objects:

PCDDocObject PCDSearch

See the following methods:

AddSearchCriteria GetPropertyValue

%OBJECT_TYPE_ID

Use this token to specify the form that is to be used in the operation.

Syntax

PCDDocObject.SetProperty("%OBJECT_TYPE_ID", _ strFormName)

Parameters

%OBJECT_TYPE_ID The token identifier that indicates that

this statement specifies the name of the

form that is to be used.

A string variable that contains the name strFormName

of the form that is to be used for this

operation.

Example

```
'Create a doc object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject")
'Check for errors.
checkError(pDocObject, "ERROR_CREATECSIOBJECT")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("Profile")
'Set the form name.
pDocObject.SetProperty("%OBJECT_TYPE_ID", formName)
```

Related Items

See the PCDDocObject object.

See the SetProperty method.

%ORDER BY

This token is used to specify the field on the form that controls the sort order.

Syntax

Parameters

%ORDER_BY The token identifier that this command

statement idenfifies the field on the form

that controls the sort order.

strDisplayName The name of the field as shown on the

form, either as a string variable or enclosed within double quote marks.

Example

```
'Create a property lists object.
PropLists =
CreateObject("PCDClient.PCDPropertyLists")
'Set the DM security token.
PropLists.SetDST(strDST)
'Set the object type.
PropLists.SetObjectType("RootObjectsCollection")
'Set the target library.
PropLists.SetProperty("%TARGET_LIBRARY", library)
'Set the order.
PropLists.SetProperty("%ORDER_BY", "DISPLAYNAME")
'Retrieve the property list.
PropLists.Execute()
```

Related Items

See the PCDPropertyLists object.

See the SetProperty method.

%PCD_DELETEVERSION

This token is used with the **%VERSION_DIRECTIVE** token to delete the specified version of the current document.

Syntax

Parameters

%VERSION_DIRECTIVE The token that indicates that this

command statement adjusts the document version settings.

%PCD_DELETEVERSION The token identifier that indicates that

the specified version of the current

document is being deleted.

Example

See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object.
See the SetProperty method.

See the **%VERSION_DIRECTIVE** token.

%PCD_NEW_VERSION

This token is used with the **%VERSION_DIRECTIVE** token to create a new document version. See %VERSION_DIRECTIVE for further information.

Syntax

PCDDocObject.SetProperty("%VERSION_DIRECTIVE" "%PCD_NEW_VERSION")

Parameters

The token that indicates that this %VERSION DIRECTIVE

> command statement adjusts the document version settings.

The token identifier that indicates that a %PCD_NEW_VERSION

new version is being created for the

specified document version.

Example

See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the **%VERSION DIRECTIVE** token.

%PCD NEWSUBVERSION

This token is used with the **%VERSION_DIRECTIVE** token to create a new document sub-version. See **%VERSION_DIRECTIVE** for further information.

Syntax

Parameters

%VERSION DIRECTIVE The token that indicates that this

command statement adjusts the document version settings.

%PCD_NEW_SUBVERSION The token identifier that indicates that a

new sub-version is being created for the

specified document version.

Example

See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object. See the SetProperty method.

See the **%VERSION_DIRECTIVE** token.

%PCD PARM HTML RENDERING

A document can be rendered in HTML, RIFF or native format to the browser. To render it in HTML, a license should be installed on DM Server. Use this tokenverifies that the appropriate license has been installed.

Syntax

```
PCDDocObject.GetPropertyValue( _
                "%PCD_PARM_HTML_RENDERING")
```

Parameters

%PCD_PARM_HTML_ RENDERING

The token identifier that indicates that the DM Server is to be checked for a valid license that allows documents to be rendered in HTML.

```
'Create a doc object.
pObj = CreateObject("PCDClient.PCDDocObject")
'Set the DM security token.
pObj.SetDST(strDST)
'Set the object type.
pObj.SetObjectType(strFormName)
'Set the library.
pObj.SetProperty("%TARGET_LIBRARY", strLibName)
'Initialize the token in question.
pObj.SetProperty("%PCD_PARM_HTML_RENDERING", "")
'Get the results.
pObj.Fetch()
'Get it
pProps = pObj.GetReturnProperties()
'Check out the property in question.
StrHTMLEnabled = pProps.GetPropertyValue( _
```

```
"%PCD_PARM_HTML_RENDERING")
If (strHTMLEnabled = "Y") Then
MsgBox("A license has been installed on this DM
Server.")
Else
MsgBox("No license has been installed on this DM
Server.")
End If
```

See the **PCDDocObject** object.

See the GetPropertyValue method.

%PCD PARM_LIB_SETTINGS

This token retrieves DM Webtop library configuration parameters that are stored in the SYSTEMPARAMETERS.INC file.

Syntax

```
PCDPropertyList.SetProperty( _
                 "%PCD_PARM_LIB_SETTINGS", _
                 strParmName)
```

Parameters

The token identifier that requests the %PCD_PARM_LIB_

SETTINGS specified library configuration

parameter.

strParmName The name of the configuration

parameter that is being requested.

Example

```
'Create a document object.
Set pObi =
CreateObject("PCDClient.PCDPropertyList")
'Set the DM security token.
pObi.SetDST(strDST)
'Specify the form used for this retrieval.
pObj.SetObjectType(DocObjType)
'Set the library.
pObj.SetProperty("%TARGET_LIBRARY", this.library)
'Set the property name to retrieve.
pobj.SetProperty("%PCD_PARM_LIB_SETTINGS",
paramName)
```

Related Items

See the PCDPropertyList object. See the SetProperty method.

%PCD_UPDATE_VERSION

This token is used with the <code>%VERSION_DIRECTIVE</code> token to update create a document version to reflect modifications that have been made to it. See <code>%VERSION_DIRECTIVE</code> for further information.

Syntax

Parameters

%VERSION_DIRECTIVE The token that indicates that this

command statement adjusts the

document version settings.

%PCD_UPDATE_VERSION The token identifier that indicates that a

document version is being updated to

reflect modifications made to it.

Example

See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the **PCDDocObject** object.

See the SetProperty method.

See the **%VERSION_DIRECTIVE** token.

%PR ACCESS CONTROL

This token identifies whether or not a user has authority to control the access of other users to the current document. If the HasRight method indicates that the current user's rights include access control, then the functionality supported by the GrantRight and RevokeRight methods are enabled for this user.

Syntax

PCDDocObject.HasRight("%PR_ACCESS_CONTROL", _ intAccessRights)

Parameters

%PR_ACCESS_CONTROL The token that indicates the application

> should report whether or not the user has sufficient rights to control access to

this document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Get the object type (form).
pDocObject.SetObjectType("cyd_defprof")
```

```
'Set the library name and document number/version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
pDocObject.SetProperty("%VERSION_ID", version)
'Get the requested information.
pDocObject.Fetch()
'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")
'Get the doc's effective rights for this user.
Set intAccessRights = _
pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")
'Make sure user has rights to edit the profile.
If Not (pDocObject.HasRight("%PR_ACCESS_CONTROL", _
                  intAccessRights)) Then
'This user cannot control access to this document.
Fnd Tf
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%PR_VIEW
%RIGHT8
%RIGHT9

%PR CONTENT COPY

This token identifies whether or not a user has authority to copy the contents of the current document.

Syntax

PCDDocObject.HasRight("%PR_CONTENT_COPY", _ intAccessRights)

Parameters

%PR_CONTENT_COPY The token that indicates the application

> should report whether or not the user has sufficient rights to copy the content

of the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type (form).
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%PR_VIEW
%RIGHT8
%RIGHT9

%PR CONTENT DELETE

This token identifies whether or not a user has authority to delete the contents of the current document.

Syntax

PCDDocObject.HasRight("%PR_CONTENT_DELETE", _ intAccessRights)

Parameters

%PR_CONTENT_DELETE The token that indicates the application

> should report whether or not the user has sufficient rights to delete the content

of the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%PR_VIEW
%RIGHT8
%RIGHT9

%PR CONTENT EDIT

This token identifies whether or not a user has authority to edit the contents of the current document.

Syntax

PCDDocObject.HasRight("%PR_CONTENT_EDIT", _ intAccessRights)

Parameters

%PR_CONTENT_EDIT The token that indicates the application

> should report whether or not the user has sufficient rights to edit the content of

the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%PR_VIEW
%RIGHT8
%RIGHT9

%PR CONTENT RETRIEVE

This token identifies whether or not a user has authority to retrieve the content of the current document.

Syntax

PCDDocObject.HasRight("%PR_CONTENT_RETRIEVE", AccessRights)

Parameters

%PR_CONTENT_RETRIEVE The token that indicates the application

should report whether or not the user has sufficient rights to retrieve the

content of the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
```

```
docnumber)
pDocObject.SetProperty("%VERSION_ID", version)
'Get the requested information.
pDocObject.Fetch()
'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")
'Get the user's effective rights for this document.
Set intAccessRights = _
pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")
'Make sure user has rights to edit the profile.
If Not (pDocObject.HasRight("%PR_CONTENT_RETRIEVE",
                             intAccessRights)) Then
'The current user does not have sufficient
authority to
'retrieve the contents of the current document.
Fnd Tf
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS %PR_ACCESS_CONTROL %PR_CONTENT_COPY %PR_CONTENT_DELETE %PR_CONTENT_EDIT %PR_CONTENT_VIEW %PR_EDIT %PR_VIEW %RIGHT8 %RIGHT9

%PR CONTENT VIEW

This token identifies whether or not a user has authority to view the content of the current document.

Syntax

PCDDocObject.HasRight("%PR_CONTENT_VIEW", _ intAccessRights)

Parameters

%PR_CONTENT_VIEW The token that indicates the application

> should report whether or not the user has sufficient rights to view the content

of the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_EDIT
%PR_VIEW
%RIGHT8
%RIGHT9

%PR EDIT

This token identifies whether or not a user has authority to edit the current document.

Syntax

```
PCDDocObject.HasRight("%PR_CONTENT_EDIT", _
                      intAccessRights)
```

Parameters

%PR_CONTENT_EDIT The token that indicates the application

> should report whether or not the user has sufficient rights to edit the content of

the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer...

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

```
pDocObject.SetProperty("%VERSION_ID", version)

'Get the requested information.
pDocObject.Fetch()

'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")

'Get the doc's effective rights for this user.
Set intAccessRights = _

pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")

'Make sure user has rights to edit the profile.
If Not (pDocObject.HasRight("%PR_EDIT",
intAccessRights)) Then
'The user is not authorized to edit this document.
End If
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_VIEW
%RIGHT8
%RIGHT9

%PR VIEW

This token identifies whether or not a user has authority to view the profile of the current document.

Syntax

```
PCDDocObject.HasRight("%PR_VIEW", _
                       intAccessRights)
```

Parameters

%PR_VIEW The token that indicates the application

> should report whether or not the user has sufficient rights to view the content

of the document.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check the errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST), and the FRM
file.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("cyd_defprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

```
pDocObject.SetProperty("%VERSION_ID", version)

'Get the requested information.
pDocObject.Fetch()

'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")

'Get the user's effective rights for this document.
Set intAccessRights = _

pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")

'Make sure user has rights to edit the profile.
If Not (pDocObject.HasRight("%PR_VIEW",
intAccessRights)) Then
'The user does not have sufficient access rights to view
'the profile of the current document.
End If
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%RIGHT8
%RIGHT9

%PRIMARY KEY

This token allows the application to get the SYSTEM_ID column.

Syntax

PCDSearch.AddSearchCriteria("%PRIMARY_KEY", _ strDocID)

Parameters

The token identifier that indicates the %PRIMARY_KEY

primary key is to be returned.

The document ID number of the object strDocID

for which the system ID number is to be

returned.

Example

```
'Create a search object.
Set pDocNumber =
CreateObject("PCDClient.PCDSearch.1")
'Check for errors.
checkError(pDocNumber, "ERROR_CREATESEARCH")
'Set the DM security token, the library, and the
form to be used.
pDocNumber.SetDST(strDST)
pDocNumber.SetProperty("%TARGET_LIBRARY",
strLibName)
pDocNumber.SetObjectType("DEF_PROF")
'Constrain the search to the specified docnumber.
pDocNumber.AddSearchCriteria("%PRIMARY_KEY",
system_id)
'Execute the search.
pDocNumber. Execute
```

Related Items

See the PCDSearch Object.

See the AddSearchCriteria method.

%PROFILE

This token is used to return information about the default profile form for the user's primary group.

Syntax

PCDDocObject.SetProperty("%FORM_LIST_TYPE", _ "%PROFILE")

Parameters

The token that indicates the current %FORM_LIST_TYPE

command line identifies the type of form

that the list operation is to retrieve.

The token identifier that indicates %PROFILE

information about the default Profile

form is to be retrieved.

```
'Create a doc object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type.
pDocObject.SetObjectType("DocsFormsList")
'Set the library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strLibName)
'Get the default profile form for the current
group.
pDocObject.SetProperty("%FORM_LIST_TYPE",
"%PROFILE")
'Retrieve the specified information.
pDocObject.Fetch()
```

See the PCDDocObject object.
See the SetProperty method.
See the %FORM_LIST_TYPE token.

%PROPERTYNAME

The Execute method that PCDLookup supports returns both data and metadata. The %PROPERTYNAME token is used to retrieve the name of the property as shown on the base form. Usually, this is the name of the column in the SQL database.

Syntax

PCDLookup.GetMetaPropertyValue("%PROPERTYNAME ")

Parameters

%PROPERTYNAME

The token identifier used to request the name of the property.

```
'Create the object.
Set pClient = CreateObject("PCDClient.PCDLookup")
'Set the DM security token.
pClient.SetDST(strDST)
'Set the form.
pClient.SetSearchObject("cyd_defprof")
'Set the lookup ID.
pClient.SetLookupId("DEPL_PACKAGES")
'Set the target property.
pClient.SetTargetProperty("PACKAGE_ID")
'Add the search library.
pClient.AddSearchLib(strLibName)
'Execute the search.
pclient.Execute()
'Get the name.
Set strPropName =
pClient.GetMetaPropertyValue("%PROPERTYNAME")
```

See the PCDLookup object.

See the GetMetaPropertyValue method.

See the following tokens:

%DATA %PROPERTYTYPE

%TITLE %VISIBLE

%PROPERTYTYPE

The Execute method that PCDLookup supports returns both data and metadata. The %PROPERTYTYPE token is used to retrieve the data type of the property as shown on the base form.

Syntax

PCDLookup.GetMetaPropertyValue("%PROPERTYTYPE

Parameters

%PROPERTYTYPE

The token identifier used to request the data type of the property.

```
'Create the object.
Set pClient = CreateObject("PCDClient.PCDLookup")
'Set the DM security token.
pClient.SetDST(strDST)
'Set the form.
pClient.SetSearchObject("cyd_defprof")
'Set the lookup ID to a SQL table.
pClient.SetLookupId("DEPL_PACKAGES")
'Set the target property to a column in the SQL
table.
pClient.SetTargetProperty("PACKAGE_ID")
'Specify the search library.
pClient.AddSearchLib(strLibName)
'Execute the search.
pclient.Execute()
'Get the name of the column.
Set strColName =
pClient.GetMetaPropertyValue("%PROPERTYTYPE")
```

See the PCDLookup object.

See the GetMetaPropertyValue method.

See the following tokens:

%DATA

%PROPERTYNAME

%TITLE

%VISIBLE

%PUBLISH VERSION

Use this token to publish a document version.

Returns

The %PUBLISH_VERSION token returns SUCCESS if the document version was published without error. If the user does not have sufficient security rights to make the document version read only, then a PCD_ERR_INSUFFICIENT_RIGHTS error will be returned.

Usage

To publish a version, follow the following steps:

- 1. Create a PCDClient.PCDDocObject.
- 2. Set the object type to whatever value is appropriate.
- 3. Set the DM security token (DST).
- 4. Set the %TARGET_LIBRARY token equal to the library name.
- 5. Set the **%OBJECT_IDENTIFIER** token equal to the document number of the document version that is to be published.
- 6. Set the **%VERSION_ID** token equal to the version number to which this publish action applies.
- 7. Set the %VERSION_DIRECTIVE token equal to %PUBLISH_VERSION, indicating that you want to make this document version read only.
- 8. Execute the **Update** method.

Related Items

See the PCDDocObject object.

See the **%UNPUBLISH_VERSION** method.

See the following tokens:

%ADD_ATTACHMENT
%MAKE_READ_ONLY
%PCD_DELETEVERSION
%PCD_NEW_VERSION
%PCD_NEWSUBVERSION

%PCD_UPDATE_VERSION %REMOVE_READ_ONLY %UNPUBLISH_VERSION %VERSION_DIRECTIVE

%QS DELETE

This token identifies whether or not a user has authority to delete a Quick Search.

Syntax

```
PCDDocObject.HasRight("%QS_DELETE", _
                      intAccessRights)
```

Parameters

%QS_DELETE The token that indicates the application

> should report whether or not the user has sufficient rights to delete the

specified Quick Search.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST).
pDocObject.SetDST(strDST)
'Set the name of the form object.
pDocObject.SetObjectType("cyd_qbeprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
pDocObject.SetProperty("%VERSION_ID", version)
```

```
'Get the requested information.

pDocObject.Fetch()

'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")

'Get the user's effective rights for this document.
Set intAccessRights = _

pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")

'Make sure user has rights to edit the profile.
If Not (pDocObject.HasRight("%QS_DELETE",
intAccessRights)) Then

'The user does not have sufficient access rights to
'delete the specified Quick Search.
End If
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%QS_EDIT %QS_VIEW

%OS EDIT

This token identifies whether or not a user has authority to edit the specified Quick Search.

Syntax

```
PCDDocObject.HasRight("%QS_EDIT", _
                       intAccessRights)
```

Parameters

%QS_EDIT The token that indicates the application

> should report whether or not the user has sufficient rights to edit the specified

Quick Search.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the user's access security (DST).
pDocObject.SetDST(strDST)
'Set the form object.
pDocObject.SetObjectType("cyd_qbeprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
pDocObject.SetProperty("%VERSION_ID", version)
```

```
'Get the requested information.

pDocObject.Fetch()

'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")

'Get the user's effective rights for this document.
Set intAccessRights = _

pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")

'Make sure the user has rights to edit the profile.
If Not (pDocObject.HasRight("%QS_EDIT",
intAccessRights)) Then

'The user does not have sufficient access rights to edit
'the specified Quick Search.
End If
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%QS_DELETE %QS_VIEW

%OS VIEW

This token identifies whether or not a user has authority to view the specified Quick Search.

Syntax

```
PCDDocObject.HasRight("%QS_VIEW", _
                       intAccessRights)
```

Parameters

%PR_VIEW The token that indicates the application

> should report whether or not the user has sufficient rights to view the Quick

Search.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer...

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the form object.
pDocObject.SetObjectType("cyd_qbeprof")
'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
pDocObject.SetProperty("%VERSION_ID", version)
```

```
'Get the requested information.
pDocObject.Fetch()
'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")
'Get the doc's effective rights for this user.
Set intAccessRights = _
pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")
'Make sure user has rights to view and execute the
search form.
If Not (pDocObject.HasRight("%QS_VIEW",
intAccessRights)) Then
'The user is a trustee for this Quick Search. The
user
'cannot execute this Quick Search.
Fnd Tf
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

%QS_DELETE %QS_EDIT

%RECENTACTIVITYDATE

This token allows to sort the items returned by a search according to the time they were most recently modified.

Syntax

```
PCDRecentDoc.AddOrderByProperty( _
          "%RECENTACTIVITYTIME", _
          blnTrueFalse)
```

Parameters

The token identifier that indicates that %RECENTACTIVITYTIME

> the retrieved data should be sorted in order by the time each was created.

blnTrueFalse A Boolean value that indicates whether

the data should be sorted in ascending or descending order. A False value results in descending order. Anything else (including no value) results in

ascending order.

```
'Create a recent doc object.
Set pClient =
CreateObject("PCDClient.PCDRecentDoc.1")
'Identify the form to use.
pClient.SetSearchObject strFormName
'Identify what data is to be returned.
pClient.AddReturnProperty "DOCNAME"
pClient.AddReturnProperty "AUTHOR"
'Sort by modification date in ascending order.
pClient.AddOrderByProperty("%RECENTACTIVITYDATE",
False)
'Execute the retrieval.
pClient.Execute
'Identify the number of items returned.
lngRowCount = pClient.GetRowsFound
```

```
'Show data for the retrieved documents.
While (lngRow < lngRowCount)

StrDocName = pClient.GetReturnValue("DOCNAME")

StrAuthor = pClient.GetReturnValue("AUTHOR")

StrMessage = strAuthor & "wrote this document: "&

StrDocName

MsgBox(strMessage)

Wend
```

See the PCDRecentDoc object.

See the AddOrderByProperty method.

See the **%RECENTACTIVITYDATE** token.

%RECENTACTIVITYTIME

This token allows to sort the items returned by a search according to the time they were most recently modified.

Syntax

```
PCDRecentDoc.AddOrderByProperty( _ "%RECENTACTIVITYTIME", _ blnTrueFalse)
```

Parameters

%RECENTACTIVITYTIME The token identifier that indicates that

the retrieved data should be sorted in order by the time each was created.

blnTrueFalse A Boolean value that indicates whether

the data should be sorted in ascending or descending order. A False value results in descending order. Anything else (including no value) results in

ascending order.

Example

```
'Create a recent doc object.
Set pClient =
CreateObject("PCDClient.PCDRecentDoc.1")
```

'Sort by modification date, most recent first. pClient.AddOrderByProperty("%RECENTACTIVITYDATE", False)

'...And then by modification time, earliest first. pClient.AddOrderByProperty("%RECENTACTIVITYTIME")

Related Items

See the PCDRecentDoc object.

See the AddOrderByProperty method.

See the **%RECENTACTIVITYDATE** token.

%RELATED_REMOTE_LIBS

This token can be used to specify that a search for related documents should retrieve from remote libraries only.

Syntax

Parameters

%RELATED_REMOTE_LIBS The token identifier that directs a

search to retrieve only from remote

libraries.

strLibraryList A comma-delimited list of remote

libraries that are to be included in the

search.

Example

```
'Create a search object.
pRelated = CreateObject("PCDClient.PCDSearch")
'Set the search type.
pRelated.SetSearchObject("RelatedItemsSearch")
'Set the DM security token.
pRelated.SetDST(strDST)
'Search in the following remote libraries.
pRelated.AddSearchCriteria("%RELATED_REMOTE_LIBS",libraryList)
```

Related Items

See the PCDSearch object.

See the AddSearchCriteria method.

%REMOVE READ ONLY

This token is used in conjunction with the %STATUS and **%VERSION_DIRECTIVE** tokens to remove the read-only setting from a document or a document version. See the %STATUS and %VERSION_DIRECTIVE token descriptions for further information.

Syntax

PCDDocObject SetProperty("%STATUS", _ "%REMOVE_READ_ONLY") PCDDocObject.SetProperty("%VERSION_DIRECTIVE" "%REMOVE_READ_ONLY")

Parameters

%STATUS The token that indicates that this

command statement adjusts the status

of the document.

%VERSION DIRECTIVE The token that indicates that this

command statement adjusts the

document version settings.

%REMOVE_READ_ONLY The token identifier that indicates that

> the DM system should remove the readonly setting from the specified document

or document version.

Returns

The RemoveReadOnly method returns SUCCESS if the document was set so it is not read only. This allows the document to be modified. If the user does not have sufficient security rights to remove any read-only setting, then a PCD ERR INSUFFICIENT RIGHTS error will be returned.

Usage

To make a document or document version read only, follow the following steps:

- 1. Create a PCDClient.PCDDocObject.
- 2. Set the object type (form name) to whatever value is appropriate.
- 3. Set the DM security token (DST).
- 4. Set the %TARGET_LIBRARY token equal to the library name.
- 5. Set the ****OBJECT_IDENTIFIER** token equal to the document number of the document or document version that is to have its read-only setting removed.
- 6. Set the %STATUS token equal to %REMOVE_READ_ONLY, indicating that you want to remove the read-only setting for this document.
- 7. Execute the **Update** method.

Example

See the %STATUS example on page 450. See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%MAKE_READ_ONLY %STATUS %VERSION_DIRECTIVE

RemoveReadOnly Document Token

Use the RemoveReadOnly Document token to remove the read-only setting from a document. PH Note: Merge this text into the main discussion of the %REMOVE READ ONLY token.

Returns

The RemoveReadOnly Document method returns SUCCESS if the document was set so it is not read only. This allows the document to be modified. If the user does not have sufficient security rights to remove any read-only setting, then a PCD ERR INSUFFICIENT RIGHTS error will be returned.

Usage

To make a document version read only, follow the following steps:

- 1. Create a PCDClient.PCDDocObject.
- 2. Set the object type to whatever value is appropriate.
- 3. Set the DM security token (DST).
- 4. Set the %TARGET_LIBRARY token equal to the library name.
- 5. Set the **%OBJECT_IDENTIFIER** token equal to the document number of the document version that is to have its read-only setting removed.
- 6. Set the %STATUS token equal to %REMOVE_READ_ONLY, indicating that you want to remove the read-only setting for this document.
- 7. Execute the **Update** method.

Related Items

See the PCDDocObject object.

See the following methods:

%MAKE_READ_ONLY %REMOVE_READ_ONLY

%RENDITION TYPE

This token is used to check whether the DM Server can deliver documents in BINDER mode.

Syntax

Parameters

%RENDITION_TYPE The token identifier that queries to

determine whether or not the DM Server can deliver documents in the specified

mode.

BINDER The key word that indicates BINDER

mode is being specified.

```
'Create a PCDGetDoc object.
pGetDoc = CreateObject("PCDClient.PCDGetDoc.1")
'Set the DM security token.
pGetDoc.SetDST(strDST)
'Set the search criteria to check for binder docs.
pGetDoc.AddSearchCriteria("%RENDITION_TYPE", "BINDER
")
'Execute the search.
pGetDoc.Execute
'If there was an error, the DM Server will not be
able to
'deliver binder documents.
If (pGetDoc.ErrNumber = -2147220814) Then
binderrendition = False
'Display the search results.
If (binderrendition) Then
MsgBox("Documents can be delivered in BINDER
mode.")
Else
```

MsgBox("Documents cannot be delivered in BINDER mode.") End If

'Release the memory used for the result set. pGetDoc.ReleaseResults

Related Items

See the PCDGetDoc object. See the AddSearchCriteria method.

%RIGHT8

This token identifies whether or not a user has authority to assign a document or record to a file.

Syntax

Parameters

%RIGHT8 The token that indicates the application

should report whether or not the user has sufficient rights to assign a Document or Record to a File.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.

pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")

'Set the user's access security (DST), and the FRM file.
pDocObject.SetDST(strDST)

'Set the object type.
pDocObject.SetObjectType("cyd_defprof")

'Set the library name and document number/version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
```

```
pDocObject.SetProperty("%VERSION_ID", version)
'Get the requested information.
pDocObject.Fetch()
'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")
'Get the user's effective rights for this document
object.
Set intAccessRights = _
pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")
'Make sure user has rights to assign a document or
record
'to a File.
If Not (pDocObject.HasRight("%RIGHT8",
intAccessRights)) Then
'The user does not have sufficient access rights to
'assign a document or record to a file.
Fnd Tf
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

```
%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%RIGHT9
```

%RIGHT9

This token identifies whether or not a user has the View Only Published authority.

Syntax

Parameters

%RIGHT9 The token that indicates the application

should report whether or not the user has View Only Published sufficient

rights.

intAccessRights The user's access rights. The rights

mask is an unsigned 32-bit integer.

Usage

The HasRight method describes the access rights setting for this token. See its discussion of Usage on page 217.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Check for errors.
checkError(pDocObject, "ERROR_CREATESEARCH")

'Set the DM security token.
pDocObject.SetDST(strDST)

'Set the object type.
pDocObject.SetObjectType("cyd_defprof")

'Set the library name and and document number/
version.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
pDocObject.SetProperty("%OBJECT_IDENTIFIER",
docnumber)
pDocObject.SetProperty("%VERSION_ID", version)
```

```
'Get the requested information.
pDocObject.Fetch()
'Check for errors.
checkError(pDocObject,
"ERROR_DOCPROFILEDSP_RIGHTS")
'Get the user's effective rights for this document.
Set intAccessRights =
pDocObject.GetReturnProperty("%EFFECTIVE_RIGHTS")
'Make sure user has rights to view only published
documents
'and records.
If Not (pDocObject.HasRight("%RIGHT9",
intAccessRights)) Then
'The user does not have sufficient access rights to
view
'only published documents.
End If
```

See the PCDDocObject object.

See the following methods:

GrantRight HasRight RevokeRight

See the following tokens:

```
%EFFECTIVE_RIGHTS
%PR_ACCESS_CONTROL
%PR_CONTENT_COPY
%PR_CONTENT_DELETE
%PR_CONTENT_EDIT
%PR_CONTENT_RETRIEVE
%PR_CONTENT_VIEW
%PR_EDIT
%RIGHT8
```

%SCORE_GRAPHIC

This token is used when a full text search is performed. It expresses the calculated relevance of each returned item as a value from 1 to 5. Lower values have greater relevance.

Synta

PCDSearch.AddReturnProperty("%SCORE_GRAPHIC")

Parameters

%SCORE_GRAPHIC

Return the search relevance as a numeric value that ranges from 1 to 5.

Example

```
'Create a search object.
Set pClient = CreateObject("PCDClient.PCDSearch.1")
```

'Return the search relevance as a value from 1 to 5 pClient.AddReturnProperty("%SCORE_GRAPHIC")

```
'Execute the search pClient.Execute()
```

'Create a variable to hold the retrieved search value.

Dim vValue As Variant

```
'Retrieve the data.
Set vValue =
pClient.GetPropertyValue("%SCORE_GRAPHIC")
```

Related Items

See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE
%FT_FORMAT

^{&#}x27;Process the relevance data.

%FT_MARKER_LIST %FT_SCORE %FT_TIMESTAMP %FT_VCC_LIST %FT_VCC_RULES %SCORE_PERCENT

%SCORE PERCENT

This token is used when a full text search is performed. It expresses the relevance of the search criteria to the document. The relevance score is expressed as a percentage.

Syntax

PCDSearch.AddReturnProperty("%SCORE_PERCENT")

Parameters

%SCORE_PERCENT

Express the relevance value returned by the search process as a percent.

Example

```
'Create a search object.

Set pClient = CreateObject("PCDClient.PCDSearch.1")

'Return the search relevance as a percentage.
pClient.AddReturnProperty("%SCORE_PERCENT")

'Execute the search.
pClient.Execute()

'Create a variable to hold the retrieved search value.
Dim vValue As Variant

'Retrieve the data.
Set vValue = pClient.GetPropertyValue("%SCORE_PERCENT")

'Process the data.
```

Related Items

See the PCDSearch object.
See the AddReturnProperty method.
See the following tokens:
%FT_CONFIDENCE
%FT_FORMAT

%FT_MARKER_LIST %FT_SCORE %FT_TIMESTAMP %FT_VCC_LIST %FT_VCC_RULES %SCORE_GRAPHIC

%SEARCH

This token is used in conjunction with %FORM_LIST_TYPE to return all search forms available to the user.

Syntax

Parameters

%FORM_LIST_TYPE The token that indicates the current

command line identifies the type of form that the list operation is to retrieve.

%SEARCH The token identifier that specifies that

the list of search forms available to the

user should be returned.

```
'Create a doc object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object (form) type.
pDocObject.SetObjectType("FormsList")
'Set the library.
pDocObject.SetProperty("%TARGET_LIBRARY",
strMyLib))
'Specify the type of forms that this search should
list.
pDocObject.SetProperty("%FORM_LIST_TYPE",
"%SEARCH")
'Fetch the list of forms.
pDocObject.Fetch()
```

See the PCDDocObject object. See the SetProperty method. See the %FORM_LIST_TYPE token.

%SECURITY

This token is used to retrieve the user's access rights for the specified document(s). Each user may be granted different privileges (for example, allowed to view, not allowed to copy, etc.)

Syntax

PCDSearch.AddReturnProperty("%SECURITY")

Parameters

%SECURITY

The token identifier that the current user's security mask (access priviliges) are to be returned for the specified document(s).

Example

```
'Create a search object.

Set pDoc = CreateObject("PCDClient.PCDSearch.1")

'Set the DM Security Token.
pDoc.SetDST( DST )

'Indicate that the search should return security properties.
pDoc.AddReturnProperty("%SECURITY")

'Execute the search.
pDoc.Execute
```

Related Items

See the PCDSearch object.

See the AddReturnProperty method.

%STATUS

This token is used to change the status of a document. The document status can be set to one of the following:

- Lock the document, using the %LOCK token.
- Lock the document and check it out to the specified user, by use of the %LOCK_FOR_CHECKOUT token.
- Make the document read only using the %MAKE_READ_ONLY token.
- Remove the read-only setting from the document, using the %REMOVE_READ_ONLY token.
- Remove the read only status from the document, using the %UNLOCK token.

Syntax

```
PCDDocObject.SetProperty("%STATUS",
strSetting)
```

Parameters d

The token that indicates that this %STATUS

command statement adjusts the status

of the document.

strSetting A variable that resolves to one of the

settings that the %STATUS token

supports.

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM security token.
pDocObject.SetDST( myDST )
'Set the object (Form) type.
pDocObject.SetObjectType("cyd_defprof")
'Set the object identifier.
pDocObject.SetProperty( "%OBJECT_IDENTIFIER",
```

```
strDocNum )
'Set the status.
pDocObject.SetProperty( "%STATUS",
"%REMOVE_READ_ONLY" )
'Perform the update.
pDocObject.Update
```

See the PCDDocObject object.
See the SetProperty method.
See the following tokens:
%LOCK
%LOCK_FOR_CHECKOUT
%MAKE_READ_ONLY
%REMOVE_READ_ONLY
%UNLOCK

%TARGET LIBRARY

This token specifies the library to use for various actions (such as searching or creating documents).

Syntax

Parameters

%TARGET_LIBRARY The token identifier that indicates that

the target library is being set.

strLibName The name of the library.

Usage

If no target library is specified, the default value is the current library.

Example

```
'Create a doc object.
pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM Security Token.
pDocObject.SetDST( strDST )
'Use the cyd_defprof form to set properties.
pDocObject.SetObjectType("cyd_defprof")
'Set the target library.
pDocObject.SetProperty("%TARGET_LIBRARY", library)
```

Related Items

```
See the PCDDocObject object.
See the SetProperty method.
```

%TITLE

The Execute method that PCDLookup supports returns both data and metadata about the object specified in the lookup operation. The %TITLE token is used to retrieve the title in the lookup list box for this column.

Syntax

PCDLookup.GetMetaPropertyValue("%TITLE")

Parameters

%TITLE

The token identifier used to request the title in the lookup list box for this property.

```
'Create the object.
Set pClient = CreateObject("PCDClient.PCDLookup")
'Set the DM security token.
pClient.SetDST( myDST)
'Set the form.
pClient.SetSearchObject("cyd_defprof")
'Set the lookup ID.
pClient.SetLookupId("DEPL_PACKAGES")
'Set the target property.
pClient.SetTargetProperty("PACKAGE_ID")
'Add the search library.
pClient.AddSearchLib( strMyLib )
'Execute the search.
pclient.Execute
'Retrieve the title.
Set strTitle =
pClient.GetMetaPropertyValue("%TITLE")
```

See the PCDLookup object.

See the GetMetaPropertyValue method.

See the following tokens:

%DATA

%PROPERTYNAME

%PROPERTYTYPE

%VISIBLE

%TRUSTEE ID

The %TRUSTEE_ID token, together with the %TRUSTEE_RIGHTS and %TRUSTEE_TYPE tokens, allows trustee settings for a document to be set or modified. Users who can modify a document object are called trustees.

Syntax

Parameters

%TRUSTEE_ID The token identifier used to indicate that

the name of the trustee is being

specified.

vntUserName The name of the Trustee, as shown in

the USER_ID column of the PEOPLE

table.

Example

```
'Create a property list object/
Set pPropList =
CreateObject("PCDClient.PCDPropertyList")
'Request the trustee.
pPropList.AddProperty("%TRUSTEE_ID", vntName)
'Request the type of trustee.
pPropList.AddProperty("%TRUSTEE_TYPE", vntType)
'Request the trustee permissions.
pPropList.AddProperty("%TRUSTEE_RIGHTS", vntRights)
```

Related Items

See the PCDPropertyList object.
See the AddProperty method.
See the following tokens:
%TRUSTEE_RIGHTS

%TRUSTEE_TYPE

%TRUSTEE RIGHTS

The %TRUSTEE_RIGHTS token, together with the %TRUSTEE_ID and %TRUSTEE_TYPE tokens, allows trustee settings for a document to be set or modified. Users who can modify a document object are called trustees.

Syntax

Parameters

%TRUSTEE_RIGHTS The token identifier used to indicate that

the rights of the trustee are being

identified.

vntRights The rights of this user for this document

object, as shown in the SECURITY

table.

Usage

The rights specified by this setting can apply to a person, a group, or an ORGHIERARCHY unit, as shown in the ORGHIERARCHY database table.

```
'Create a property list object.
Set pPropList =
CreateObject("PCDClient.PCDPropertyList")

'Request trustee information.
pPropList.AddProperty("%TRUSTEE_ID", vntName)

'Request the trustee type.
pPropList.AddProperty("%TRUSTEE_TYPE", vntType)

'Request the trustee permissions.
pPropList.AddProperty("%TRUSTEE_RIGHTS", vntRights)
```

See the PCDPropertyList object. See the AddProperty method. See the following tokens:

%TRUSTEE_ID %TRUSTEE_TYPE

%TRUSTEE TYPE

The %TRUSTEE_TYPE token, together with the %TRUSTEE_ID and %TRUSTEE_RIGHTS tokens, allows trustee settings for a document to be set or modified. Users who can modify a document object are called trustees.

Syntax

Parameters

%TRUSTEE_TYPE The token identifier used to indicate that

the type of trustee is being identified.

vntUserType The type of Trustee.

Usage

The user type can be set to any of the following values:

0 Unknown User Type

Group
 Person

```
'Create a property list object.
Set pPropList =
CreateObject("PCDClient.PCDPropertyList")

'Identify the trustee.
pPropList.AddProperty("%TRUSTEE_ID", vntName)

'Idnetify the trustee type.
pPropList.AddProperty("%TRUSTEE_TYPE", vntType)

'Identify the trustee permissions.
pPropList.AddProperty("%TRUSTEE_RIGHTS", vntRights)
```

See the PCDPropertyList object. See the AddProperty method. See the following tokens:

%TRUSTEE_ID %TRUSTEE_RIGHTS

%TRUSTEES_ADD

Use this token to add new entities (people, groups, etc.) to the current trustee list.

Syntax

Parameters

%TRUSTEES_UPDATE The token identifier that indicates trustee

information is about to be updated.

%TRUSTEES_ADD The token identifier that indicates one or

more trustees is to be added to the

current list of trustees.

```
'Create a document object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")
'Set the DM security token.
pDocObject.SetDST(strDST)
'Set the object type. Data on the MassProfile
Update form shows
'the updated trustee settings.
pDocObject.SetObjectType("MassProfileUpdate")
'Set the update action so that the specified
entities will be
'added to the current trustee list.
pDocObject.SetProperty("%TRUSTEES_UPDATE",
"%TRUSTEES_ADD")
'Perform the update.
pDocObject.Update
```

See the PCDDocObject object. See the SetProperty method. See the following tokens:

%TRUSTEES_REMOVE %TRUSTEES_SET

%TRUSTEES_REMOVE

Use this token to delete one or more trustees from the current list of trustees for the specified object.

Syntax

Parameters

%TRUSTEES_UPDATE The token identifier that indicates trustee

information is about to be updated.

%TRUSTEES_REMOVE The token identifier that indicates one or

more of the trustees is to be removed

from the trustee list.

Example

```
'Create a document object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Set the DM security token.
pDocObject.SetDST(strDST)

'Set the object type. Data on the MassProfile
Update form shows
'the updated trustee settings.
pDocObject.SetObjectType("MassProfileUpdate")

'Set the update to remove the specified trustees.
pDocObject.SetProperty("%TRUSTEES_UPDATE",
"%TRUSTEES_REMOVE")

'Perform the update.
pDocObject.Update
```

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%TRUSTEES_ADD %TRUSTEES_SET %TRUSTEES_UPDATE

%TRUSTEES SET

Use this token to set trustee information.

Syntax

Parameters

%TRUSTEES_UPDATE The token identifier that indicates trustee

information is about to be updated.

%TRUSTEES_SET The token identifier that indicates the

rights of one or more of the trustees has

changed and should be saved.

Example

```
'Create a document object.

Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Set the DM security token.
pDocObject.SetDST(strDST)

'Set the object type. Data on the MassProfile
Update form shows
'the updated trustee settings.
pDocObject.SetObjectType("MassProfileUpdate")

'Set the update action.
pDocObject.SetProperty("%TRUSTEES_UPDATE",
"%TRUSTEES_SET")

'Perform the update.
pDocObject.Update
```

Related Items

See the PCDDocObject object. See the SetProperty method. See the following tokens:

%TRUSTEES_ADD %TRUSTEES_REMOVE %TRUSTEES_UPDATE

%TRUSTEES UPDATE

Use this token to set trustee information.

Syntax

PCDDocObject.SetProperty("%TRUSTEES_UPDATE",
_

vntAction)

Parameters

%TRUSTEES_UPDATE The token identifier that indicates trustee

information is about to be updated.

vntAction One of the three trustee actions

supported by the %TRUSTEES_UPDATE

token.

Usage

The %TRUSTEES_UPDATE token supports the following actions:

%TRUSTEES_ADD Add one or more trustees to the current

list of trustees.

%TRUSTEES_REMOVE Remove one or more trustees from the

current list of trustees.

%TRUSTEES_SET Adjust the access rights of one or more

of the current trustees.

Example

'Create a document object.
Set pDocObject =
CreateObject("PCDClient.PCDDocObject.1")

'Set the DM security token. pDocObject.SetDST(strDST)

'Set the object type. Data on the MassProfile Update form shows

'the updated trustee settings.

pDocObject.SetObjectType("MassProfileUpdate")

'Set the update action. pDocObject.SetProperty("%TRUSTEES_UPDATE", "%TRUSTEES_SET") 'Perform the update.

Related Items

pDocObject.Update

See the PCDDocObject object. See the SetProperty method. See the following tokens:

%TRUSTEES_ADD %TRUSTEES_REMOVE %TRUSTEES_SET

%UNLOCK

This token is used in conjunction with the %STATUS token to unlock a document. See the "%STATUS" token on page 450 for further information.

Syntax

PCDDocObject.SetProperty("%STATUS",
"%UNLOCK")

Parameters

%STATUS The token that indicates that this

command statement adjusts the status

of the document.

%UNLOCK The token identifier that indicates that

the DM system should unlock the

document.

Example

See the %STATUS example on page 450.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%LOCK

%LOCK_FOR_CHECKOUT

%MAKE_READ_ONLY

%REMOVE_READ_ONLY

%STATUS

%UNPUBLISH VERSION

This token is used with the **%VERSION_DIRECTIVE** token to reset a previously published document version so it is unpublished. See the "**%VERSION_DIRECTIVE**" token on page 478 for further information.

Syntax

PCDDocObject.SetProperty("%VERSION_DIRECTIVE"
, _

"%UNPUBLISH_VERSION")

Parameters

%VERSION DIRECTIVE The token that indicates that this

command statement adjusts the document version settings.

%UNPUBLISH_VERSION The token identifier that indicates that a

document version is being reset so that it no longer indicates that it has been

published.

Returns

The UnpublishVersion token returns SUCCESS if the document version had its "published" status removed. If the user does not have sufficient security rights to remove the published status of a document version, then a PCD_ERR_INSUFFICIENT_RIGHTS error will be returned.

Usage

To remove the published status of a document version, follow the following steps:

- 1. Create a PCDClient.PCDDocObject.
- 2. Set the object type to whatever value is appropriate.
- 3. Set the DM security token (DST).
- 4. Set the **%TARGET_LIBRARY** token equal to the library name.

- 5. Set the **%OBJECT_IDENTIFIER** token equal to the document number of the document version that is have its published status removed.
- 6. Set the **%VERSION_ID** token equal to the version number of the document version that is to have its published status removed.
- 7. Set the %VERSION_DIRECTIVE token equal to %UNPUBLISH_VERSION, indicating that you want to remove the published status of the specified document version.
- 8. Execute the **Update** method.

Example

See the %VERSION_DIRECTIVE example on page 478.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the following tokens:

%PUBLISH_VERSION %VERSION_DIRECTIVE

%USER ID

This token is used to set the user ID property for various actions.

Syntax

```
PCDDocObject.SetProperty("%USER_ID", _
                       "vntUserName")
```

Parameters

The token identifier that indicates the %USER_ID

user name is being identified.

The name of the user. vntUserName

Example

```
'Create a doc object.
Set pObj = CreateObject("PCDClient.PCDDocObject")
'Set the DM security token.
pObj.SetDST(strDST)
'Set the object (form) type.
pObj.SetObjectType("ImptDocRetrievalForm")
'Set the userID property.
pObj.SetProperty("%USER_ID", vntGuest)
'Fetch documents authored by the user specified on
the form.
pObj.Fetch
```

Related Items

See the PCDDocObject object.

See the SetProperty method.

%VERIFY ONLY

This token allows you to verify that the attributes are correct for the document. This is used primarily when a document is first created. You might want to do this to make sure no errors are returned.

Syntax

Parameters

%VERIFY_ONLY The token identifier that indicates a

check of document attributes is going to

take place.

stryesNo A string that resolves to either %YES or

%NO.

Usage

The %VERIFY_ONLY token supports the following tokens:

%YES Yes, verify the parameters only.

%NO No, do not *just* verify parameters. Actually create

the object in addition to verifying the parameters.

```
'Create a document object.

Set pObj = CreateObject("PCDClient.PCDDocObject")

'Set the DM security token.

pObj.SetDST(strDST)

'Validate the parameters, but do not create the object.

pobj.SetProperty("%VERIFY_ONLY", "%YES")

'Do the verification now.

pObj.Create
```

See the PCDDocObject object. See the SetProperty method.

%VERSION AUTHOR

This token allows to specify the author of the document version.

Syntax

Parameters

%VERSION_AUTHOR The token identifier that indicates the

author is being specified.

vntAuthorName The USER_ID of the document version

author.

Example

```
'Create a document object.
Set pObj = CreateObject("PCDClient.PCDDocObject")
'Set the DM security token.
pObj.SetDST(strDST)
'Set the author name.
pDocObject.SetProperty("%VERSION_AUTHOR",
"ROBERT_X")
'Set the object (form) type.
pDocObject.SetObjectType("DEF_PROF")
'Fetch the data.
pDocObject.Fetch
```

Related Items

See the PCDDocObject object.

See the SetProperty method.

%VERSION COMMENT

This token allows you to specify the comment for the document version.

Syntax

```
PCDDocObject.SetProperty("%VERSION_COMMENT",
                      strCommentText)
```

Parameters

The token that indicates the comment %VERSION_COMMENT

for this version is being set.

strCommentText A string variable (or literal text in double

quotes) that contains the comment for the specified document version.

Usage

The version comment text is inserted into the COMMENTS column of the VERSIONS table for the specified document version.

```
'Create a document object.
Set pObj = CreateObject("PCDClient.PCDDocObject")
'Set the DM security token.
pObj.SetDST(strDST)
'Set the object (form) type.
pObj.SetObjectType("NewDocProfileForm")
'Set the comment for this document version.
pObj.SetProperty("%VERSION_ COMMENT", _
       "Operating Plan, Final Version")
'Perform the update.
pObj.Update
```

See the PCDDocObject object. See the SetProperty method.

%VERSION_DIRECTIVE

This token indicates that any of several supported actions is to affect the specified document version.

Syntax

PCDDocObject.SetProperty("%VERSION_DIRECTIVE"

vntVersionID)

Parameters

The token identifier that indicates a %VERSION DIRECTIVE

version directive is being set.

strVersionAction Any of the actions that the

%VERSION_DIRECTIVE token

supports.

Usage

The %VERSION_DIRECTIVE token supports any of the following:

Token Identifier	Description
%ADD_ATTACHMENT	Creates an attachment.
%MAKE_READ_ONLY	Make this version read only.
%PCD_DELETEVERSION	Delete the specified version.
%PCD_NEW_VERSION	Create a new version.
%PCD_NEWSUBVERSION	Create a new sub-version.
%PCD_UPDATE_VERSION	Update modifications made to a version.
%PUBLISH_VERSION	Publish a version.
%REMOVE_READ_ONLY	Set the version so it is not read only.
%UNPUBLISH_VERSION	Set the version so it is not published.

Example

'Create a document object. pDelObject = CreateObject("PCDClient.PCDDocObject.1")

See the PCDDocObject object. See the SetProperty method.

%VERSION ID

This token allows a specific version ID to be set for the document.

Syntax

PCDDocObject.GetReturnProperty("%VERSION_ID")

PCDDocObject.SetProperty("%VERSION_ID", _ strVersionID)

PCDDocObject.SetProperty("%VERSION_ID", _ "%VERSION_TO_INDEX")

PCDGetDoc.AddSearchCriteria("%VERSION_ID", _ strVersionID)

PCDPutDoc.AddSearchCriteria("%VERSION_ID", _ strVersionID)

Parameters

The token identifier that indicates an %VERSION ID

action is to involve a version.

strVersionID The version identifier that is to be used

in the search or update.

After a document is returned by a search %VERSION_TO_INDEX

> operation, this token specifies the version of a document that is to be referenced in a subsequent content

search.

```
'Create a search object.
Set pVer = CreateObject("PCDClient.PCDSearch.1")
'Set the DM security token.
pVer.SetDST(strDST)
'Set the object (form) type.
pVer.SetObjectType("DEF_PROF")
'Set the version identifier.
pVer.AddSearchCriteria("%VERSION_ID", version[i])
```

'Execute the search.
pVer.Execute

Related Items

See the following objects:

PCDDocObject PCDGetDoc PCDPutDoc

See the following methods:

AddSearchCriteria GetProperty SetProperty

See the %VERSION_TO_INDEX token.

%VERSION LABEL

This token is used to retrieve the preview content.

Syntax

```
PCDGetDoc.AddSearchCriteria("%VERSION_LABEL",
                             "PR1")
```

Parameters

The token identifier that specifies that %VERSION_LABEL

the version's preview content is to be

returned.

PR1 A required parameter that is used in the

Example

```
'Create a PCDGetDoc object.
pGetDoc = CreateObject("PCDClient.PCDGetDoc.1")
'Set the DM security token.
pGetDoc.SetDST(strDST)
'Get the preview content.
pGetDoc.AddSearchCriteria("%VERSION_LABEL", "PR1")
'Retrieve the document version.
pGetDoc.Execute()
```

Related Items

See the PCDGetDoc object.

See the AddSearchCriteria method.

See the **%CONTENT** token.

%VERSION TO INDEX

This token indentifies a version identified in a search whose content is now to be retrieved. In this circumstance, it can be less complex to identify the version by referencing its location in the data set returned by the initial search operation than in trying to identify it by its document ID number.

Syntax

Parameters

%VERSION_ID The token identifier that indicates an

action is to involve a version.

%VERSION_TO_INDEX After a document is returned by a search

operation, this token specifies the version of a document that is to be referenced in a subsequent content

search.

Related Items

See the PCDDocObject object.

See the SetProperty method.

See the **%VERSION_ID** token.

%VERSION TYPIST

This token is used to identify the typist for the specified document version.

Syntax

PCDDocObject.SetProperty("%VERSION_TYPIST", strTypistName)

Parameters

This token indicates that the typist %VESION_TYPIST

associated with the specified document

version is being specified.

strTypistName The name of the typist, as shown in the

USER_ID column of the PEOPLE table

in the DM database.

Example

```
'Create a doc object.
Set pObj = CreateObject("PCDClient.PCDDocObject")
'Set the DM security token.
pObj.SetDST(strDST)
'Set the typist.
pDocObject.SetProperty("%VERSION_ TYPIST",
"j_SMITH")
```

Related Items

See the PCDDocObject object. See the SetProperty method.

%VISIBLE

The Execute method that PCDLookup supports returns both data and metadata. The %VISIBLE token returns a Boolean value that indicates whether or not this lookup column should be displayed to the user.

Syntax

PCDLookup.GetMetaPropertyValue("%VISIBLE")

Parameters

%VTSTBLE

The token identifier used to request the flag setting that indicates whether or not this lookup column should be displayed to the user.

```
'Create the object.
Set pClient = CreateObject("PCDClient.PCDLookup")
'Set the DM security token.
pClient.SetDST(strDST)
'Set the form
pClient.SetSearchObject("cyd_defprof")
'Set the lookup ID.
pClient.SetLookupId("DEPL_PACKAGES")
'Set the target property.
pClient.SetTargetProperty("PACKAGE_ID")
'Add the search library.
pClient.AddSearchLib(strLibName)
'Execute the search.
pclient.Execute()
'Get the visible indicator.
Set strIndicator =
pClient.GetMetaPropertyValue("%VISIBLE")
```

See the PCDLookup object.

See the GetMetaPropertyValue method.

See the following tokens:

%DATA %PROPERTYNAME %PROPERTYTYPE %TITLE