

DDE provider DDE connection

Version 1.0.0

User's guide

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【Revision history】

Version	Date	Content
1.0.0.0	2006-02-23	First edition.
1.0.0.1	2010-02-11	Addition of error code.
1.0.0	2012-07-17	Document versioning rules was changed.

【Hardware】

Model	Version	Notes

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1. Introduction

This book is an user's guide of the DDE provider that is the provider acquisition/to set data by using DDE.

This book explains the function of this DDE provider and the mounting method.

2. Outline of provider

2.1. Outline

The DDE provider is wrapping the part that accesses data by using DDE with the interface of CAO.

Table 2-1 DDE provider

File name	CaoProvDDE.dll
ProgID	CaoProv.DDE
Registry registration ¹	regsvr32 CaoProvDDE.dll
Blotting out of registry registration	regsvr32 /u CaoProvDDE.dll

¹ It is not necessary registration/to blot out by hand power when installing it with ORiN SDK.

2.2. Method property

2.2.1. CaoWorkspace::AddController method

This method is connected with the DDE server with the start of the DDE provider by specifying connected parameter of the controller name and the DDE server for the argument. The argument specification of this method is shown as follows.

```
AddController
(
  "< controller name >" // Controller name
  "CaoProv. DDE",       // Provider name. Fixation.
  "< option >"         // Option character string
)
```

The list specified for the option character string is shown as follows.

Table 2-2 Option character string of CaoWorkspace::AddController

Option	Meaning
Server name of DDEServer=<DDE >	DDE server name at connection destination.
Topic name of DDETopic=<DDE >	DDE topic name. When this option is omitted, the controller name is used as a topic name.

example 1 : When you make Excel a server

Server name : Excel
Topic name : File name seat name

```
AddController
(
  "RC1", // controller name: RC1
  "CaoProv. DDE", // Provider name. Fixation.
  "DDEServer=Excel and (DDETopic = Book1.xls Sheet1) and " // DDEServer name: Excel
  // file name: Book1.xls
  // seat name: Sheet1
)
```

example 2 : When you make CaoSQL a server

Server name : CaoSQL
Topic name : CaoSQL controller name

```
AddController
(
  "RC1", // controller name: RC1
  "CaoProv. DDE", // Provider name. Fixation.
  "DDEServer=CaoSQL" // DDEServer name: CaoSQL and DDE topic name: RC1 (controller name)
)
```

2.2.2. GaoController::AddVariable method

The variable object is made in this method. The DDE item to make them correspond to the object is specified for an item name. There is no option to specify.

2.2.3. GaoVariable::get_Value property

The data of the DDE item that corresponds to the object is acquired. There is no option to specify.

2.2.4. GaoVariable::put_Value property

The data of the DDE item that corresponds to the object is set. There is no option to specify.

2.3. Variable list

There is no variable peculiar to the DDE provider.

2.4. Error code

In the DDE provider, there is no peculiar error code. Please refer to the chapter of the error code of "[ORiN2 Programming guide](#)" for the ORiN2 commonness error.

3. Sample program

The sample that reads and writes the data of Excel by way of CAO by making Excel DDE server, and using the DDE provider is shown as follows.

- Sample program start procedure
 1. The Excel file is opened, and the seat name: cell of Sheet1: A suitable value is input to R1C1.
 2. The program of the sample code is executed with the Excel file opened.

List 3-1**Sample.frm**

```
Private eng As CaoEngine
Private ctrl As CaoController
Private var1 As CaoVariable

Private Sub Form_Load()

    Dim ws As CaoWorkspace

    Set eng = New CaoEngine
    Set ws = eng.Workspaces(0)

    ' connection with DDE server (Excel)
    Set ctrl = ws.AddController("CSQData1", _
        "CaoProv. DDE", _
        "DDEServer=Excel, DDETopic=Sheet1")

    ' acquisition of DDE item
    Set var1 = ctrl.AddVariable("R1C1", "")
End Sub

' setting of data of DDE item
Private Sub Command1_Click()
    var1.Value = Text1.Text
End Sub

' data acquisition of DDE item
Private Sub Command2_Click()
    Text2.Text = var1.Value
End Sub
```