

## Section: Get and Remove UPT Profile

### Property

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## Functions

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afx\_msg long **OSPropertyUI::FindUPTTable** (VARIANT FAR &nTableType)

Search for the UPT table by table type number.

afx\_msg VARIANT **OSPropertyUI::CreateUPTTableEx** (VARIANT FAR &nTableNo, VARIANT FAR &nTableType)

Create User Provided Table (UPT) specified by table number ID and Table Type.

afx\_msg VARIANT **OSPropertyUI::RemoveUPTTable** (VARIANT FAR &nTableRef)

Remove the whole User Provided Table (UPT) specified by table number ID.

afx\_msg VARIANT **OSPropertyUI::RemovePropertyFromUPTTable** (VARIANT FAR &nTableRef, VARIANT FAR &nPropertyRef)

Remove a property from User Provided Table (UPT) if exist.

afx\_msg VARIANT **OSPropertyUI::CreatePropertyFromUserTable** (const VARIANT FAR &SectionName, const VARIANT FAR &TableNo)

Create a section Property From User Table.

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableCount** ()

Get the number of UPT tables.

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableList** (VARIANT FAR &nTableList)

Get the UPT table ID list.

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableSectionCount** (const VARIANT FAR &nTableNo)

Get the number of section defined in specified User Provided Table (UPT).

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableSectionList** (const VARIANT FAR &nTableNo, VARIANT FAR &sectionList)

Get the list of section names in specified User Provided Table (UPT).

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableSectionType** (const VARIANT FAR &nTableNo, VARIANT FAR &sectionType)

Get the user provided table section type in specified User Provided Table (UPT).

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableSectionPropertyCount** (const VARIANT FAR &nTableNo, const VARIANT FAR &sectionName)

Get the user provided table section property count in specified User Provided Table (UPT).

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableSectionProperties** (const VARIANT FAR &nTableNo, const VARIANT FAR &sectionName, VARIANT FAR &sectionType, VARIANT FAR &propertyVals)

Get the section type and section properties of specified UPT section.

afx\_msg VARIANT **OSPropertyUI:: GetUserProvidedTableNo** (const VARIANT FAR &varSecRefNo)

Get section user provided table number ID by user table index.

## Detailed Description

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These functions are related to get UPT section information.

## Function Documentation

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## ◆ CreatePropertyFromUserTable()

```
VARIANT OSPropertyUI::CreatePropertyFromUserTable ( const VARIANT FAR & SectionName,
                                                const VARIANT FAR & TableNo )
```

Create a section Property From User Table.

### Parameters

- [in] **SectionName** Section name(Type: string)
- [in] **TableNo** Table Id(Type: long/integer)

### Returns

the section property Ref ID.

### C++ Syntax

```
// Get count number.
VARIANT propCount = OSPropertyUI::CreatePropertyFromUserTable("H600X300X12X20", 1);
```

### VBA Syntax

```
Option Explicit
Sub Main
    Dim objOpenStaad As Object
    Dim stdFile As String
    Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
    objOpenStaad.GetSTAADFfile stdFile, "TRUE"
    If stdFile="" Then
        MsgBox"Bad"
        Set objOpenStaad = Nothing
        Exit Sub
    End If
    Dim SectionName As String
    Dim TableNo As Long
    SectionName ="H600X300X12X20"
    TableNo = 1
    objOpenStaad.Property.SetMaterialName("STEEL")
    Dim RetVal As Long
    RetVal = objOpenStaad.Property.CreatePropertyFromUserTable(SectionName,TableNo)
    Set objOpenStaad = Nothing
End Sub
```

### See also

- [OSPropertyUI:: GetUserProvidedTableCount](#)
- [OSPropertyUI:: GetUserProvidedTableList](#)

## ◆ CreateUPTTableEx()

```
VARIANT OSPropertyUI::CreateUPTTableEx ( VARIANT FAR & nTableNo,
                                         VARIANT FAR & nTableType )
```

Create User Provided Table (UPT) specified by table number ID and Table Type.

#### Parameters

[in] **nTableRef** a new table number ID.  
 [in] **nTableType** Type of the table, Ref the function [OSPropertyUI::CreateUPTTable](#).

#### Return values

**0** Create new User Provided Table generate Error.  
**<Val>** table number ID.

#### C++ Syntax

```
VARIANT RetVal = OSPropertyUI::CreateUPTTableEx(5, 10);
```

#### VBA Syntax

```
Option Explicit
Sub Main
    Dim objOpenStaad As Object
    Dim stdFile As String
    Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
    objOpenStaad.GetSTAADFile stdFile, "TRUE"
    If stdFile="" Then
        MsgBox"Bad"
        Set objOpenStaad = Nothing
        Exit Sub
    End If
    Dim uptNo As Integer
    uptNo = objOpenStaad.Property.CreateUPTTableEx(5, 10)
    Dim dAx As Double
    Dim dIZ As Double
    Dim dIY As Double
    Dim dIX As Double
    Dim ay As Double
    Dim dAZ As Double
    Dim dYD As Double
    Dim dZD As Double
    dAx = 4.32
    dIZ = 2.2
    dIY = 3.32
    dIX = 2.2
    ay = 3.8
    dAZ = 3.6
    dYD = 3.25
    dZD = 2.81
    Dim res as Boolean
    res = objOpenStaad.Property.AddUPTPropertyPRISMATIC(uptNo, "Test", dAx, dIZ, dIY, dIX, ay, dAZ,
        dYD, dZD)
    Set objOpenStaad = Nothing
End Sub
```

#### See also

[OSPropertyUI::CreateUPTTable](#)

◆ [FindUPTTable\(\)](#)

```
long OSPropertyUI::FindUPTTable ( VARIANT FAR & varTableType )
```

Search for the UPT table by table type number.

#### Parameters

[in] **varTableType** Table type number:

No.	Table Type
1	scUserTableWideFlangeTitle
2	scUserTableChannelTitle
3	scUserTableAngleTitle
4	scUserTableDoubleAngleTitle
5	scUserTableTeeTitle
6	scUserTablePipeTitle
7	scUserTableTubeTitle
8	scUserTableGeneralTitle
9	scUserTableIsectionTitle
10	scUserTablePrismaticTitle

#### Return values

<Val> Table number ID.

-6036 Cannot find UPT. Unknown table type **varTableType** specified.

#### C++ Syntax

```
// Find UPT table.
long RetVal = OSPropertyUI::FindUPTTable(8);
```

#### VBA Syntax

```
' Find UPT table.
Dim RetVal As VARIANT = OSPropertyUI.FindUPTTable(8);
```

#### ◆ GetUserProvidedTableCount()

```
VARIANT OSPropertyUI:: GetUserProvidedTableCount( )
```

Get the number of UPT tables.

#### Returns

The number of UPT tables.

#### C++ Syntax

```
// Get count number.  
VARIANT UPTCount = OSPropertyUI:: GetUserProvidedTableCount();
```

#### VBA Syntax

```
' Get count number.  
Dim RetVal As VARIANT = OSPropertyUI.GetUserProvidedTableCount();
```

### ◆ GetUserProvidedList()

## VARIANT OSPropertyUI:: GetUserProvidedTableList ( VARIANT FAR & nTableList )

Get the UPT table ID list.

### Parameters

[out] **UPT** table ID list(Type: Long Array),array size refer to [OSPropertyUI:: GetUserProvidedTableCount](#)

### Return values

**TRUE** Retrieves the UPT Table list successfully.

**FALSE** Unable to retrieve the UPT table list.

### C++ Syntax

```
// Get Table ID List.
bool res = OSPropertyUI:: GetUserProvidedTableList(tables);
```

### VBA Syntax

```
Option Explicit
Sub Main
    Dim objOpenStaad As Object
    Dim stdFile As String
    Set objOpenStaad = GetObject(, "StaadPro.OpenSTAAD")
    objOpenStaad.GetSTAADFfile stdFile, "TRUE"
    If stdFile="" Then
        MsgBox"Bad"
        Set objOpenStaad = Nothing
        Exit Sub
    End If
    Dim Count As Long
    Count = objOpenStaad.Property.GetUserProvidedTableCount()
    Dim tables() As Long
    ReDim tables(Count-1) As Long
    Dim res as Boolean
    res = objOpenStaad.Property.GetUserProvidedTableList( tables)
    Set objOpenStaad = Nothing
End Sub
```

### ◆ GetUserProvidedTableNo()

## VARIANT OSPropertyUI:: GetUserProvidedTableNo ( const VARIANT FAR & varSecRefNo )

Get section user provided table number ID by user table index.

### Parameters

[in] **varSecRefNo** User Provided Table (UPT) index.

### Return values

<Val> User Provided Table (UPT) number ID.

-1 General error.

### C++ Syntax

```
// Get the number ID of user provided table 1 .
VARIANT nTableRef = OSPropertyUI:: GetUserProvidedTableNo(1);
```

### VBA Syntax

```
' Get the number ID of user provided table 1 .
Dim nTableRef As VARIANT = OSPropertyUI.GetUserProvidedTableNo(1);
```

## ◆ GetUserProvidedTableSectionCount()

### VARIANT OSPropertyUI:: GetUserProvidedTableSectionCount ( const VARIANT FAR & nTableNo )

Get the number of section defined in specified User Provided Table (UPT).

### Parameters

[in] **nTableNo** The User Provided Table (UPT) number ID.

### Returns

The number of section(s) in given UPT.

### C++ Syntax

```
// Get the number of sections in UPT #3.
VARIANT nCount = OSPropertyUI:: GetUserProvidedTableSectionCount(3);
```

### VBA Syntax

```
' Get the number of sections in UPT #3.
Dim RetVal As VARIANT = OSPropertyUI.GetUserProvidedTableSectionCount(3);
```

### See also

[OSPropertyUI:: GetUserProvidedTableSectionList](#)

## ◆ GetUserProvidedTableSectionList()

Get the list of section names in specified User Provided Table (UPT).

## Parameters

[in] **nTableNo** The User Provided Table (UPT) number ID.

[out] **sectionList** **CSStringList** with indexes and corresponding section string names included.

## Returns

The number of section(s) in given UPT.

## C++ Syntax

```
// Get the list of sections in UPT #3.  
VARIANT RetVal = OSPropertyUI:: GetUserProvidedTableSectionList(3, &sectionList);
```

## VBA Syntax

```
' Get the list of sections in UPT #3.  
Dim RetVal As VARIANT = OSPropertyUI.GetUserProvidedTableSectionList(3, &sectionList);
```

#### **See also**

## OSPropertyUI:: GetUserProvidedTableSectionCount

- #### ◆ GetUserProvidedTableSectionProperties()

```
VARIANT OSPropertyUI:: GetUserProvidedTableSectionProperties ( const VARIANT FAR & nTableNo,
                                                               const VARIANT FAR & sectionName,
                                                               VARIANT FAR & sectionType,
                                                               VARIANT FAR & propertyVals )
```

Get the section type and section properties of specified UPT section.

#### Parameters

- [in] **nTableNo** The User Provided Table (UPT) number ID.
- [in] **sectionName** UPT section string name given to this section property.
- [out] **sectionType** UPT Section Type from the below table.
- [out] **propertyVals** A double VARIANT array for section property parameters (get array size by calling the API [OSPropertyUI::GetCountofSectionPropertyValuesEx](#).

User Table Type	UPT Section Type	propValues
USER TABLE PRISMATIC	502	Ax Iz ly Ix Ay Az YD ZD
USER TABLE GENERAL	482	Ax D Td B Tb Iz ly Ix Sz Sy Ay Az Pz Py Hss Dee
USER TABLE WIDE FLANGE	412	Ax D Tw Wf Tf Iz ly Ix Ay Az Wf1 Tf1
USER TABLE CHANNEL	422	Ax D Tw Wf Tf Iz ly Ix Cz Ay Az
USER TABLE ANGLE	432	D Wf Tf R Ay Az
USER TABLE DOUBLE ANGLE	442	D Wf Tf SP Iz ly Ix Cy Ay Az
USER TABLE TEE	452	Ax D Wf Tf Tw Iz ly Ix Cy Ay Az
USER TABLE PIPE	462	OD ID Ay Az
USER TABLE TUBE	472	Ax D Wf Tf Iz ly Ix Ay Az
USER TABLE ISECTION	492	Dww Tww Dww1 Bff Tff Bff1 Tff1 Ayf Azf Xif

#### Return values

**TRUE** Successful.

**FALSE** Unsuccessful.

#### C++ Syntax

```
// Get section property of section "UPT VJG20-2" in UPT #3.
VARIANT RetVal = OSPropertyUI:: GetUserProvidedTableSectionProperties(3, (LPCTSTR)"VJG20-2", &sectionType,
&propertyVals);
```

#### VBA Syntax

```
' Get section property of section "UPT VJG20-2" in UPT #3.
Option Explicit

Sub Main
    Dim objOpenStaad As Object
    Dim stdFile As String
    Dim count As Long
    Dim propValues() As Double
    Dim sectionType As Long
    Dim TableNo As Long
    Dim SectionName As String
    Dim Result As Boolean
```

```

Set objOpenStaad = GetObject("StaadPro.OpenSTAAD")
objOpenStaad.GetSTAADFfile stdFile, "TRUE"

count = objOpenStaad.Property.GetCountofSectionPropertyValuesEx()
ReDim propValues(count - 1)
TableNo = 3
SectionName = "VJG20-2"
Result =
    objOpenStaad.property.GetUserProvidedTableSectionProperties(TableNo,SectionName,sectionType,propVal
End Sub

```

## ◆ GetUserProvidedTableSectionPropertyCount()

VARIANT OSPropertyUI:: GetUserProvidedTableSectionPropertyCount ( const VARIANT FAR & nTableNo,  
const VARIANT FAR & sectionName )

Get the user provided table section property count in specified User Provided Table (UPT).

### Parameters

[in] **nTableNo** The User Provided Table (UPT) number ID.  
 [in] **sectionName** UPT section string name given to this section property.

### Returns

The number of section(s) in given UPT.

### C++ Syntax

```
// Get the user provided table section property count in UPT #3.
VARIANT RetVal = OSPropertyUI:: GetUserProvidedTableSectionPropertyCount(3, (LPCTSTR)"UPT VJG20-2");
```

### VBA Syntax

```
' Get the user provided table section property count in UPT #3.
Dim RetVal As VARIANT = OSPropertyUI.GetUserProvidedTableSectionPropertyCount(3, "UPT VJG20-2");
```

## ◆ GetUserProvidedTableSectionType()

```
VARIANT OSPropertyUI:: GetUserProvidedTableSectionType ( const VARIANT FAR & nTableNo,  
VARIANT FAR & sectionType )
```

Get the user provided table section type in specified User Provided Table (UPT).

#### Parameters

- [in] **nTableNo** The User Provided Table (UPT) number ID.
- [out] **sectionType** Number referring to *Section Type Code* table, ref function  
[OSPropertyUI:: GetUserProvidedTableSectionProperties](#).

#### Returns

The number of section(s) in given UPT.

#### C++ Syntax

```
// Get the user provided table section type in UPT #3.  
VARIANT RetVal = OSPropertyUI:: GetUserProvidedTableSectionType(3, &sectionType);
```

#### VBA Syntax

```
' Get the user provided table section type in UPT #3.  
Dim RetVal As VARIANT = OSPropertyUI.GetUserProvidedTableSectionType(3, &sectionType);
```

## ◆ RemovePropertyFromUPTTable()

```
VARIANT OSPropertyUI::RemovePropertyFromUPTTable ( VARIANT FAR & nTableRef,
                                                VARIANT FAR & varSectionName )
```

Remove a property from User Provided Table (UPT) if exist.

#### Parameters

[in] **nTableRef** The existing table number ID.(Long)  
 [in] **varSectionName** UPT section string name.(String)

#### Return values

**0** Error  
**1** OK. Property has been deleted.  
**-100** Invalid Table Number or Section Name.

#### C++ Syntax

```
// Remove the item "UPT VJG50-2" in existing table #1.
VARIANT RetVal = OSPropertyUI::RemovePropertyFromUPTTable(1, (LPCTSTR)"UPT VJG50-2");
```

#### VBA Syntax

```
Option Explicit
Sub Main
    Dim TableRef As Integer
    Dim SectionName As String
    Dim Res As Long
    Dim objOpenStaad As Object
    Dim stdFile As String

    TableRef = 2
    SectionName = "1"

    Set objOpenStaad = GetObject(,"StaadPro.OpenSTAAD")
    objOpenStaad.GetSTAADFfile stdFile, "TRUE"
    If stdFile="" Then
        MsgBox"Bad"
        Set objOpenStaad = Nothing
        Exit Sub
    End If

    Res = objOpenStaad.Property.RemovePropertyFromUPTTable(TableRef, SectionName)
    If (Res = 1) Then
        MsgBox"Successful"
    Else
        MsgBox"Unsuccessful"
    End If
End Sub
```

#### ◆ RemoveUPTTable()

**VARIANT OSPropertyUI::RemoveUPTTable ( VARIANT FAR & nTableRef )**

Remove the whole User Provided Table (UPT) specified by table number ID.

**Parameters**

[in] **nTableRef** The existing table number ID.

**Return values**

**TRUE/1** OK.

**FALSE/0** Error.

**C++ Syntax**

```
// Delete User Provided Table (UPT) #1.  
VARIANT RetVal = OSPropertyUI::RemoveUPTTable(1);
```

**VBA Syntax**

```
' Delete User Provided Table (UPT) #1.  
Dim RetVal As VARIANT = OSPropertyUI.RemoveUPTTable(1);
```

**See also**

[OSPropertyUI::CreateUPTTable](#)