

# Column/View Permission API Documentation

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## Overview

The Application Programming Interface (API) is only available for Column/View Permission 3.0 and above versions.

The API for Column/View Permission enables SharePoint software developers to integrate Column and View permissions with their own SharePoint applications. Basically, the product supports two interfaces: *IColumnPermission* and *IViewPermission*, and they are both created by the *PermissionFactory* class.

The following illustrates how to create *IColumnPermission* and *IViewPermission* instances.

```
IColumnPermission columnPermission = PermissionFactory.Create<IColumnPermission>(list);
```

```
IViewPermission viewPermission = PermissionFactory.Create<IViewPermission>(list);
```

## IColumnPermission Interface

Provides functionality to integrate column permission with SharePoint applications.

**Namespace:** SharePointBoost.Integration.Permission

**Assembly:** SharePointBoost.Integration.dll

### Syntax

```
public interface IColumnPermission
```

### Properties

Name	Description
ProductExists	Verifies whether the IColumnPermission interface is available and returns a <b>Boolean</b> value.
Enabled	Verifies whether ColumnPermission setting is enabled and returns a <b>Boolean</b> value.

### Methods

Name	Description
DoesUserHavePermissionToAccessField(SPUUser, SPField)	Verifies whether the user has permission to access the specified column.
DoesUserHavePermissionToAccessField(SPUUser, string)	
DoesUserHavePermissionToAccessField(SPUUser, Guid)	
DoesUserHavePermissionToAccessField(SPUUser, SPControlMode, SPField)	Verifies whether the user has permission to access the specified column based on the form type.
DoesUserHavePermissionToAccessField(SPUUser, SPControlMode, string)	

DoesUserHavePermissionToAccessField (SPUser, SPControlMode,Guid)	
DoesUserHavePermissionToAccessField(SPListItem, SPUser, SPControlMode, SPField)	Verifies whether the user has permission to access the specified column on the specified form type (Display, New or Edit) based on the item data.
DoesUserHavePermissionToAccessField(SPListItem, SPUser, SPControlMode,string)	
DoesUserHavePermissionToAccessField(SPListItem, SPUser, SPControlMode,Guid)	
GetAccessibleFields(SPUser)	Provides a list containing all columns which the user has permission to access.
GetAccessibleFields(SPUser, SPControlMode)	
DoesUserHavePermissionToEditField(SPUser, SPField)	Verifies whether the user has permission to edit the specified column.
DoesUserHavePermissionToEditField(SPUser, string)	
DoesUserHavePermissionToEditField(SPUser, Guid)	
DoesUserHavePermissionToEditField(SPListItem, SPUser, SPField)	Verifies whether the user has permission to edit the specified column based on the item data.
DoesUserHavePermissionToEditField(SPListItem, SPUser, string)	
DoesUserHavePermissionToEditField(SPListItem, SPUser, Guid)	
GetEditableFields	Provides a list containing all columns which user has permission to edit.

## IColumnPermission.ProductExistsProperty

Verifies whether the IColumnPermission interface is available and returns a **Boolean** value.

### Syntax

```
bool ProductExists { get; }
```

### Property Value

**Type:** *Boolean*

**true** if the *IColumnPermission* interface is available; otherwise, **false**.

## IColumnPermission.Enabled Property

Verifies whether ColumnPermission setting is enabled and returns a **Boolean** value.

### Syntax

```
bool Enabled{get; }
```

### Property Value

**Type:** *Boolean*

**true** if the *ColumnPermission* setting is enabled; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPUser, SPField)

Verifies whether the user has permission to access the specified column.

### Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPUser user,  
    SPField field  
)
```

### Parameters

*user*

**Type:** Microsoft.SharePoint.SPUser  
A user to verify permission for.

*field*

**Type:** Microsoft.SharePoint.SPField  
A SPField object that represents the specified column.

### Return Value

**Type:** *Boolean*

**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPUser, string)

Verifies whether the user has permission to access the specified column.

### Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPUser user,
```

```
)    string fieldName  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*fieldName*

**Type:**System.String  
A string that specifies display name or internal name of the column.

## Return Value

**Type:***Boolean*  
**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPUser, Guid)

Verifies whether the user has permission to access the specified column.

## Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPUser user,  
    Guid fieldId  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*fieldId*

**Type:**System.Guid  
The field Id of specified column.

## Return Value

**Type:***Boolean*  
**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPUser, SPControlMode, SPField)

Verifies whether the user has permission to access the specified column on the specified form type: Display, New or Edit.

Column Permission hides columns based on the form types, after the column is specified hidden in Edit item form, it will not be accessible by user when he tries to edit item.

If you specify column hidden on Edit form type, the corresponding *controlMode* is Edit.

### Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPUser user,  
    SPControlMode controlMode,  
    SPField field  
)
```

### Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser

A user to verify permission for.

*controlMode*

**Type:**Microsoft.SharePoint.WebControls.SPControlMode

A form type on which to verify permission: Display, New, or Edit.

*field*

**Type:**Microsoft.SharePoint.SPField

A SPField object that represents the specified column.

### Return Value

**Type:***Boolean*

**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPUser, SPControlMode,string)

Verifies whether the user has permission to access the specified column on the specified form type: Display, New or Edit.

Column Permission hides columns based on the form type. After the column is specified "hidden" in Edit item form, it will not be accessible by user when he tries to edit item.

If you specify columns "hidden" on Edit form type, the corresponding *controlMode* is Edit.

### Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPUser user,  
    SPControlMode controlMode,  
    string fieldName  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*controlMode*

**Type:**Microsoft.SharePoint.WebControls.SPControlMode  
A form type on which to verify permission: Display, New, or Edit.

*string*

**Type:**System.String  
A string that specifies display name or internal name of the column.

## Return Value

**Type:***Boolean*  
**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPUser, SPControlMode, Guid)

Verifies whether the user has permission to access the specified column on the specified form type: Display, New or Edit.

Column Permission hides columns based on the form type. After the column is specified "hidden" in Edit item form, it will not be accessible by user when he tries to edit item.

If you specify columns "hidden" on Edit form type, the corresponding *controlMode* is Edit.

## Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPUser user,  
    SPControlMode controlMode,  
    Guid fieldId  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*controlMode*



**Type:**Microsoft.SharePoint.WebControls.SPControlMode  
A form type on which to verify permission: Display, New, or Edit.

*fieldId*

**Type:**System.Guid  
The field Id of specified column.

## Return Value

**Type:***Boolean*  
**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPListItem, SPUser, SPControlMode, SPField)

Verifies whether the user has permission to access the specified column on the specified form type ( Display, New or Edit) based on the item data.

For example, if the Column Permission setting is related to list items, this method should be used.

## Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPListItem item,  
    SPUser user,  
    SPControlMode controlMode,  
    SPField field  
)
```

## Parameters

*item*

**Type:**Microsoft.SharePoint.SPListItem  
A SPListItem object that represents the list item.

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*controlMode*

**Type:**Microsoft.SharePoint.WebControls.SPControlMode  
A form type on which to verify permission: Display, New, or Edit.

*field*

**Type:**Microsoft.SharePoint.SPField  
A SPField object that represents the specified column.

## Return Value

**Type:***Boolean*

**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPListItem, SPUser, SPControlMode, string)

Verifies whether the user has permission to access the specified column on the specified form type (Display, New or Edit) based on the item data.

For example, if the Column Permission setting is related to list items, this method should be used.

### Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPListItem item,  
    SPUser user,  
    SPControlMode controlMode,  
    string fieldName  
)
```

### Parameters

*item*

**Type:**Microsoft.SharePoint.SPListItem  
A SPListItem object that represents the list item.

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*controlMode*

**Type:**Microsoft.SharePoint.WebControls.SPControlMode  
A form type on which to verify permission: Display, New, or Edit.

*string*

**Type:**System.String  
A string that contains display name or internal name of the column.

### Return Value

**Type:***Boolean*  
**true** if the user has permission; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToAccessField Method (SPListItem, SPUser, SPControlMode, Guid)

Verifies whether the user has permission to access the specified column on the specified form type (Display, New or Edit) based on the item data.

For example, if the Column Permission setting is related to list items, this method should be used.

## Syntax

```
bool DoesUserHavePermissionToAccessField(  
    SPListItem item,  
    SPUser user,  
    SPControlMode controlMode,  
    Guid fieldId  
)
```

## Parameters

*item*

**Type:**Microsoft.SharePoint.SPListItem  
A SPListItem object that represents the list item.

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*controlMode*

**Type:**Microsoft.SharePoint.WebControls.SPControlMode  
A form type on which to verify permission: Display, New, or Edit.

*fieldId*

**Type:**System.Guid  
The field Id of specified column.

## Return Value

**Type:***Boolean*  
**true** if the user has permission; otherwise, **false**.

## IColumnPermission.GetAccessibleFields Method (SPUser)

Provides a list containing all columns which user has permission to access.

If the column is visible for users in all item forms (Display, New, Edit), the list will include the column. This also means that if the column is hidden in one form (Display, New, Edit), the column will not be included in list.

## Syntax

```
IList<SPField>GetAccessibleFields(  
    SPUser user  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

### Return Value

**Type:***System.Collections.Generic.IList<Microsoft.SharePoint.SPField>*  
A list containing all columns that user has permission to access.

## IColumnPermission.GetAccessibleFields Method (SPUser, SPControlMode)

Provides a list containing all columns which user has permission to access in specified form type: Display, New or Edit.

### Syntax

```
IList<SPField>GetAccessibleFields(  
    SPUser user,  
    SPControlMode controlMode  
)
```

### Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*controlMode*

**Type:**Microsoft.SharePoint.WebControls.SPControlMode  
A form type on which to verify permission: Display, New, or Edit.

### Return Value

**Type:***System.Collections.Generic.IList<Microsoft.SharePoint.SPField>*  
A list containing all columns that user has permission to access in specified form type.

## IColumnPermission.DoesUserHavePermissionToEditField Method (SPUser, SPField)

Verifies whether the user has permission to edit the specified column.

### Syntax

```
bool DoesUserHavePermissionToEditField(  
    SPUser user,  
    SPField field  
)
```

### Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*field*

**Type:**Microsoft.SharePoint.SPField  
A SPField object that represents the specified column.

### Return Value

**Type:***Boolean*

**true** if the user has permission to edit the specified column; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToEditField Method (SPUser,string)

Verifies whether the user has permission to edit the specified column.

### Syntax

```
bool DoesUserHavePermissionToEditField(  
    SPUser user,  
    string fieldName  
)
```

### Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*fieldName*

**Type:**System.String  
A string that specifies display name or internal name of the column.

### Return Value

**Type:***Boolean*

**true** if the user has permission to edit the specified column; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToEditField Method (SPUser,Guid)

Verifies whether the user has permission to edit the specified column.

### Syntax

```
bool DoesUserHavePermissionToEditField(  
    SPUser user,  
    Guid fieldId
```

)

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*fieldId*

**Type:**System.Guid  
The field Id of specified column.

## Return Value

**Type:***Boolean*

**true** if the user has permission to edit specified column; otherwise, **false**.

## IColumnPermission.DoesUserHavePermissionToEditField Method (SPListItem, SPUser, SPField)

Verifies whether the user has permission to edit the specified column based on the item data.

For example, if the Column Permission setting is related to list items, this method should be used.

## Syntax

```
bool DoesUserHavePermissionToEditField(  
    SPListItem item,  
    SPUser user,  
    SPField field  
)
```

## Parameters

*item*

**Type:**Microsoft.SharePoint.SPItem  
A SPListItem object that represents the list item.

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*field*

**Type:**Microsoft.SharePoint.SPField  
A SPField object that represents the specified column.

## Return Value

**Type:** *Boolean*

**true** if user has permission to edit column; otherwise, **false**.

## **IColumnPermission.DoesUserHavePermissionToEditField Method (SPListItem, SPUser, string)**

Verifies if the user has permission to edit the specified column based on the item data.

For example, if the Column Permission setting is related to list items, this method should be used.

### **Syntax**

```
bool DoesUserHavePermissionToEditField(  
    SPListItem item,  
    SPUser user,  
    string fieldName  
)
```

### **Parameters**

*item*

**Type:** Microsoft.SharePoint.SPItem

A SPListItem object that represents the list item.

*user*

**Type:** Microsoft.SharePoint.SPUser

A user to verify permission for.

*string*

**Type:** System.String

A string that specifies display name or internal name of the column.

### **Return Value**

**Type:** *Boolean*

**true** if user has permission to edit column; otherwise, **false**.

## **IColumnPermission.DoesUserHavePermissionToEditField Method (SPListItem, SPUser, Guid)**

Verifies whether the user has permission to edit the specified column based on the item data.

For example, if the Column Permission setting is related to list items, this method should be used.

### **Syntax**

```
bool DoesUserHavePermissionToEditField(  
    SPListItem item,  
    SPUser user,  
    Guid fieldId  
)
```

## Parameters

*item*

**Type:**Microsoft.SharePoint.SPItem  
A SPListItem object that represents the list item.

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*fieldId*

**Type:**System.Guid  
The field Id of specified column.

## Return Value

**Type:***Boolean*  
**true** if user has permission to edit column; otherwise, **false**.

## IColumnPermission.GetEditableFields Method (SPUser)

Gets a list containing all columns which user has permission to edit.

## Syntax

```
IList<SPField>GetEditableFields(  
    SPUser user  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

## Return Value

**Type:***System.Collections.Generic.IList<Microsoft.SharePoint.SPField>*  
A list containing all columns that user has permission to edit.



## IViewPermission Interface

Provides functionality to integrate view permission within SharePoint applications.

**Namespace:** SharePointBoost.Integration.Permission

**Assembly:** SharePointBoost.Integration.dll

### Syntax

`public interface IViewPermission`

### Properties

Name	Descriptions
ProductExists	Verifies whether the IViewPermission interface is available and returns a <b>Boolean</b> value.
Enabled	Verifies whether the View Permission or Column Permission setting is enabled and returns a <b>Boolean</b> value.

### Methods

Name	Descriptions
DoesUserHavePermissionToAccessView (SPUser, string)	Verifies whether the user has permission to access the specified view.
DoesUserHavePermissionToAccessView (SPUser,SPView)	
DoesUserHavePermissionToAccessView (SPUser, Guid)	
DoesUserHavePermissionToAccessView (SPUser, string, boolignoreColumnPermission)	Verify whether the user has permission to access specified view based on view permission setting and column permission setting (optional).  If <i>ignoreColumnPermission</i> is <b>true</b> , the column permission will not be involved to validate the user's permission to the specified view; otherwise, the views which contain hidden columns will not be accessible by user.
DoesUserHavePermissionToAccessView (SPUser, SPView, boolignoreColumnPermission)	
DoesUserHavePermissionToAccessView (SPUser, Guid, boolignoreColumnPermission)	
GetAccessibleViews(SPUser)	Gets a list containing all views user has permission to access.

## IViewPermission.ProductExists Property

Verifies if the IViewPermission interface is available and returns a **Boolean** value.

### Syntax

```
bool ProductExists { get; }
```

### Property Value

**Type:** *Boolean*

**true** if the *IViewPermission* interface is available; otherwise, **false**.

## IViewPermission.Enabled Property

Verifies whether View Permission or Column Permission setting is enabled and returns a **Boolean** value.

### Syntax

```
bool Enabled { get; }
```

### Property Value

**Type:** *Boolean*

**true** if the *View Permission* or *Column Permission* setting is enabled; otherwise, **false**.

## IViewPermission.DoesUserHavePermissionToAccessViewMethod(SPUser, string)

Verifies whether the user has permission to access the specified view.

### Syntax

```
bool DoesUserHavePermissionToAccessView(  
    SPUser user,  
    string viewName  
)
```

### Parameters

*user*

**Type:** *Microsoft.SharePoint.SPUser*

A user to verify permission for.

*viewName*

**Type:** *System.string*

The view title.

### Return Value

**Type:** *Boolean*

**true** if the user has permission to access the view; otherwise, **false**.

## ViewPermission.DoesUserHavePermissionToAccessViewMethod (SPUser, SPView)

Verifies whether the user has permission to access the specified view.

### Syntax

```
bool DoesUserHavePermissionToAccessView(  
    SPUser user,  
    SPView view  
)
```

### Parameters

*user*

**Type:** Microsoft.SharePoint.SPUser

A user to verify permission for.

*view*

**Type:** Microsoft.SharePoint.SPView

ASPView object that represents the specified view.

### Return Value

**Type:** *Boolean*

**true** whether the user has permission to access the view; otherwise, **false**.

## ViewPermission.DoesUserHavePermissionToAccessViewMethod (SPUser, Guid)

Verifies if the user has permission to access the specified view.

### Syntax

```
bool DoesUserHavePermissionToAccessView(  
    SPUser user,  
    Guid viewId  
)
```

### Parameters

*user*

**Type:** Microsoft.SharePoint.SPUser

A user to verify permission for.

*viewId*

**Type:**System.Guid

A System.Guid that identifies the view.

## Return Value

**Type:***Boolean*

**true** if the user has permission to access the view; otherwise, **false**.

## ViewPermission.DoesUserHavePermissionToAccessView (SPUser, string, bool ignoreColumnPermission)

Verify whether the user has permission to access specified view based on view permission setting and column permission setting (optional).

If *ignoreColumnPermission* is **true**, the column permission will not be involved to validate the user's permission to a specified view; otherwise, the views containing hidden columns will not be accessible by user.

## Syntax

```
bool DoesUserHavePermissionToAccessView(  
    SPUser user,  
    string viewName,  
    bool ignoreColumnPermission  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser

A user to verify permission for.

*viewName*

**Type:**System.string

The view title.

*ignoreColumnPermission*

**Type:**System.Boolean

**true** to ignore column permission setting; otherwise, **false**.

## Return Value

**Type:***Boolean*

**true** if the user has permission to access the view; otherwise, **false**.

## ViewPermission.DoesUserHavePermissionToAccessView (SPUser, SPView, bool ignoreColumnPermission)

Verify whether the user has permission to access specified view based on view permission setting and column permission setting (optional).

If *ignoreColumnPermission* is **true**, the column permission will not be involved to validate the user's permission to a specified view; otherwise, the views containing hidden columns will not be accessible by user.

## Syntax

```
bool DoesUserHavePermissionToAccessView(  
    SPUser user,  
    SPView view,  
    bool ignoreColumnPermission  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*view*

**Type:**Microsoft.SharePoint.SPView  
A SPView object that represents the specified view.

*ignoreColumnPermission*

**Type:**System.Boolean  
**true** to ignore column permission setting; otherwise, **false**.

## Return Value

**Type:***Boolean*

**true** if the user has permission to access the view; otherwise, **false**.

## IViewPermission.DoesUserHavePermissionToAccessView (SPUser, Guid, bool ignoreColumnPermission)

Verify whether the user has permission to access specified view based on view permission setting and column permission setting (optional).

If *ignoreColumnPermission* is **true**, the column permission will not be involved to validate the user's permission to a specified view; otherwise, the views containing hidden columns will not be accessible by user.

## Syntax

```
bool DoesUserHavePermissionToAccessView(  
    SPUser user,  
    Guid viewId,  
    bool ignoreColumnPermissison  
)
```

## Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

*viewId*

**Type:**System.Guid  
A System.Guid that identifies the view.

*ignoreColumnPermission*

**Type:**System.Boolean  
**true** to ignore column permission setting; otherwise, **false**.

## Return Value

**Type:***Boolean*  
**true** if the user has permission to access the view; otherwise, **false**.

## ViewPermission.GetAccessibleViews Method (SPUser)

Provides a list containing all views which user has permission to access.

### Syntax

```
ICollection<SPField>GetAccessibleFields(  
    SPUser user,  
)
```

### Parameters

*user*

**Type:**Microsoft.SharePoint.SPUser  
A user to verify permission for.

## Return Value

**Type:***System.Collections.Generic.ICollection<Microsoft.SharePoint.SPField>*  
A list containing all views which user has permission to access.