

# SheetProtection

Introduced in build 8.6.1

## Description

A `SheetProtection` object contains sheet level protection properties that control what users can interact with when a worksheet is protected. To access `SheetProtection`, use `Worksheet.SheetProtection`.

### C#

```
public sealed class SheetProtection
```

### vb.net

```
Public NotInheritable Class SheetProtection
```

## Remarks

In a new workbook, `AllowSelectLockedCells` and `AllowSelectUnlockedCells` default to `true`. The rest of the properties default to `false`.

The `SheetProtection` properties will only take effect if the worksheet is protected. Worksheets can be protected with `Worksheet.Protect(String)`. If the worksheet is not protected, the values of the properties will persist, but will not have an effect.

## Examples

### C#

```
//--- Open existing spreadsheet
ExcelApplication xla = new ExcelApplication();
Workbook wb = xla.Open(@"C:\MySpreadsheet.xlsx");

//--- Get SheetProtection
SheetProtection protection = wb[0].SheetProtection;

//--- Set Properties
protection.AllowFormatCells = true;
protection.AllowSort = false;
```

## vb.net

```
'--- Open existing spreadsheet
Dim xla As New ExcelApplication()
Dim wb As Workbook = xla.Open("C:\MySpreadsheet.xlsx")

'--- Get SheetProtection
Dim protection As SheetProtection = wb(0).SheetProtection

'--- Set Properties
protection.AllowFormatCells = true;
protection.AllowSort = false;
```

## Properties

Name	Description
<a href="#">AllowSelectLockedCells</a>	Sets or returns whether the worksheet will allow users to select locked cells when the worksheet is protected.
<a href="#">AllowSelectUnlockedCells</a>	Sets or returns whether the worksheet will allow users to select unlocked cells when the worksheet is protected.
<a href="#">AllowFormatCells</a>	Sets or returns whether the worksheet will allow users to format cells when the worksheet is protected.
<a href="#">AllowFormatRows</a>	Sets or returns whether the worksheet will allow users to format rows when the worksheet is protected.
<a href="#">AllowFormatColumns</a>	Sets or returns whether the worksheet will allow users to format columns when the worksheet is protected.
<a href="#">AllowInsertColumns</a>	Sets or returns whether the worksheet will allow users to insert columns when the worksheet is protected.
<a href="#">AllowInsertRows</a>	Sets or returns whether the worksheet will allow users to insert rows when the worksheet is protected.
<a href="#">AllowInsertHyperlinks</a>	Sets or returns whether the worksheet will allow users to insert hyperlinks when the worksheet is protected.
<a href="#">AllowDeleteColumns</a>	Sets or returns whether the worksheet will allow users to delete columns when the worksheet is protected.
<a href="#">AllowDeleteRows</a>	Sets or returns whether the worksheet will allow users to delete rows when the worksheet is protected.
<a href="#">AllowSort</a>	Sets or returns whether the worksheet will allow users to sort when the worksheet is protected.
<a href="#">AllowUseAutoFilter</a>	Sets or returns whether the worksheet will allow users to use AutoFilters when the worksheet is protected.
<a href="#">AllowUsePivotTableReports</a>	Sets or returns whether the worksheet will allow users to use PivotTable reports when the worksheet is protected.