### protection (Protection Properties)

Contains protection properties associated with the cell. Each [cell](cell.docx) has protection properties that can be set. The [cell](cell.docx) protection properties do not take effect unless the [sheet](sheet.docx) has been protected.

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| Parent Elements |
| [dxf](dxf.docx) (§); [ndxf](ndxf.docx) (§); [odxf](odxf.docx) (§); [xf](xf.docx) (§) |

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| Attributes | Description |
| hidden (Hidden Cell) | A boolean value indicating if the [cell](cell.docx) is hidden. When the [cell](cell.docx) is hidden and the [sheet](sheet.docx) on which the [cell](cell.docx) resides is protected, then the [cell](cell.docx) value will be displayed in the [cell](cell.docx) grid [location](location.docx), but the contents of the [cell](cell.docx) will not be displayed in the [formula](formula.docx) bar. This is true for all types of [cell](cell.docx) content, including [formula](formula.docx), text, or numbers.Therefore the [cell](cell.docx) A4 may contain a [formula](formula.docx) "=SUM(A1:A3)", but if the [cell](cell.docx) protection property of A4 is marked as hidden, and the [sheet](sheet.docx) is protected, then the [cell](cell.docx) should display the calculated result (for example, "6"), but will not display the [formula](formula.docx) used to calculate the result.The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| locked (Cell Locked) | A boolean value indicating if the [cell](cell.docx) is locked. When cells are marked as "locked" and the [sheet](sheet.docx) is protected, then the options specified in the Sheet Part's [sheetProtection](sheetProtection.docx) element (§) are prohibited for these cells.The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |

The following XML [Schema](Schema.docx) fragment defines the contents of this element:

<complexType [name](name.docx)="CT\_CellProtection">

 <attribute [name](name.docx)="locked" type="xsd:boolean" use="optional"/>

 <attribute [name](name.docx)="hidden" type="xsd:boolean" use="optional"/>

</complexType>