### metadataType (Metadata Type Information)

This element represents information about [metadata](metadata.docx) on cells - it defines a specific set of behaviors that the [metadata](metadata.docx) shall adhere to when subject to other spreadsheet operations.

In general, many of these attributes represent operations that can be performed on a [cell](cell.docx) that allow the [metadata](metadata.docx) to remain associated with the cell. Operations that are set to 0 or false, will cause the [metadata](metadata.docx) to be disassociated from the [cell](cell.docx) when that operation is performed.

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| --- |
| Parent Elements |
| [metadataTypes](metadataTypes.docx) (§) |

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| Attributes | Description |
| adjust (Adjust Metadata) | A Boolean flag indicating that [metadata](metadata.docx) corresponding to a particular [cell](cell.docx) needs to be notified when that cell's [location](location.docx) is changed.  [Note: This is included in the file [format](format.docx) for future extensibility.end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| assign (Metadata Formula Assignment) | A Boolean flag indicating whether [metadata](metadata.docx) is propagated by [formula](formula.docx) assignment operation. True when [metadata](metadata.docx) should be propagated by assignment, false otherwise.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| cellMeta (Cell Metadata) | A Boolean flag indicating whether [metadata](metadata.docx) is [cell](cell.docx) metadata. True when the [metadata](metadata.docx) is [cell](cell.docx) [metadata](metadata.docx), false otherwise - in the false case it is considered to be value metadata.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| clearAll (Metadata Clear All) | A Boolean flag indicating whether [metadata](metadata.docx) survives a "Clear: All" operation. True if the [metadata](metadata.docx) persists after a clear all, false otherwise.  The Clear operations can be implemented by the run time application to provide an easy way to allow [users](users.docx) to delete everything from a [cell](cell.docx) (Clear: All), remove only [comments](comments.docx) (Clear: Comments), only remove [formats](formats.docx) (Clear: Formats), or only remove the contents but leave the [comments](comments.docx) and formatting (Clear: Contents). Note these operations can also be performed by the user manually deleting each item.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| clearComments (Metadata Clear Comments) | A Boolean flag indicating whether [metadata](metadata.docx) remains after [comments](comments.docx) have been cleared from the cell. True if the [metadata](metadata.docx) persists after Clear:Comments, false otherwise.  The Clear operations can be implemented by the run time application to provide an easy way to allow [users](users.docx) to delete everything from a [cell](cell.docx) (Clear: All), remove only [comments](comments.docx) (Clear: Comments), only remove [formats](formats.docx) (Clear: Formats), or only remove the contents but leave the [comments](comments.docx) and formatting (Clear: Contents). Note these operations can also be performed by the user manually deleting each item.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| clearContents (Metadata Clear Contents) | A Boolean flag indicating whether [metadata](metadata.docx) remains after the contents of a [cell](cell.docx) are removed. True if [metadata](metadata.docx) persists after a "Clear: Contents" action, false otherwise.  The Clear operations can be implemented by the run time application to provide an easy way to allow [users](users.docx) to delete everything from a [cell](cell.docx) (Clear: All), remove only [comments](comments.docx) (Clear: Comments), only remove [formats](formats.docx) (Clear: Formats), or only remove the contents but leave the [comments](comments.docx) and formatting (Clear: Contents). Note these operations can also be performed by the user manually deleting each item.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| clearFormats (Metadata Clear Formats) | A Boolean flag indicating whether [metadata](metadata.docx) remains after formatting is removed from a cell. True if [metadata](metadata.docx) persists after a "Clear: Formats", false otherwise.  The Clear operations can be implemented by the run time application to provide an easy way to allow [users](users.docx) to delete everything from a [cell](cell.docx) (Clear: All), remove only [comments](comments.docx) (Clear: Comments), only remove [formats](formats.docx) (Clear: Formats), or only remove the contents but leave the [comments](comments.docx) and formatting (Clear: Contents). Note these operations can also be performed by the user manually deleting each item.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| coerce (Metadata Coercion) | A Boolean flag indicating whether value [metadata](metadata.docx) can be removed when this [metadata](metadata.docx) data type is coerced to another type. True if the value [metadata](metadata.docx) is removed upon coercion, false otherwise.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| copy (Metadata Copy) | A Boolean flag indicating whether [metadata](metadata.docx) is copied with a cell. True if the [metadata](metadata.docx) is copied to other cells when this [cell](cell.docx) is copied, false otherwise.  This shall be set to true if the paste attributes for the metadataType are going to be used.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| delete (Metadata Cell Value Delete) | A Boolean flag indicating whether [metadata](metadata.docx) survives deletion of a [cell](cell.docx) value. True when the [metadata](metadata.docx) persists after the deletion of a [cell](cell.docx) value, false otherwise.  This attribute is equivalent to the clearContents attribute.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| edit (Metadata Edit) | A Boolean flag indicating whether [metadata](metadata.docx) survives the editing of the cell's value. True if the [metadata](metadata.docx) remains unchanged after the cell's value edit, false otherwise.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| ghostCol (Metadata Ghost Column) | A Boolean flag indicating whether [metadata](metadata.docx) is copied to/from a ghost column. True when the [metadata](metadata.docx) is copied to/from a ghost column, false otherwise.  A ghost column is a single column that exists for the [row](row.docx) header. It is not displayed to the end user. It is used to store default formatting for an entire [row](row.docx) (i.e. the [row](row.docx) gets the formatting for the corresponding [cell](cell.docx) in the ghost column). For instance, when an entire [row](row.docx) is selected and a [cell](cell.docx) [color](color.docx) is applied, this is stored once for the [cell](cell.docx) in the ghost column instead of for each [cell](cell.docx) in the row.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| ghostRow (Metadata Ghost Row) | A Boolean flag indicating whether [metadata](metadata.docx) is copied to/from a ghost row. True when the [metadata](metadata.docx) is copied to/from a ghost [row](row.docx), false otherwise.  A ghost [row](row.docx) is a single [row](row.docx) that exists for the column header. It is not displayed to the end user. It is used to store default formatting for an entire column (i.e. the column gets the formatting for the corresponding [cell](cell.docx) in the ghost row). For instance, when an entire column is selected and a [cell](cell.docx) [color](color.docx) is applied, this is stored once for the [cell](cell.docx) in the ghost [row](row.docx) instead of for each [cell](cell.docx) in the column.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| merge (Metadata Merge) | A Boolean flag indicating whether [metadata](metadata.docx) survives [cell](cell.docx) merge. True if the [metadata](metadata.docx) persists after a [cell](cell.docx) merge, false otherwise.  It is up to the spreadsheet application on how to deal with conflicts when two cells that each have [metadata](metadata.docx) are merged. The guidance here is to treat it the same as a 'regular' [cell](cell.docx) merge with the default behavior being that the data in the upper left [cell](cell.docx) wins.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| minSupportedVersion (Minimum Supported Version) | The earliest version of the spreadsheet application that supports this [metadata](metadata.docx) type.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) unsignedInt datatype. |
| [name](name.docx) (Metadata Type Name) | Represents the name of this particular [metadata](metadata.docx) type. This name shall be unique amongst all other [metadataTypes](metadataTypes.docx).  The possible values for this attribute are defined by the [ST\_Xstring](ST_Xstring.docx) simple type (§). |
| pasteAll (Metadata Paste All) | A Boolean flag indicating whether [metadata](metadata.docx) is populated to a new [cell](cell.docx) by "Paste: All". True when the [metadata](metadata.docx) is populated on a Paste:All, false otherwise. Paste:All and regular paste should be implemented so that they are equivalent by the spreadsheet application.  The copy flag shall be set to true for this paste behavior to be respected.  Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteBorders (Metadata Paste Borders) | A Boolean flag indicating whether [metadata](metadata.docx) is populated with Paste: Borders. True when the [metadata](metadata.docx) is populated when only [borders](borders.docx) are pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: The spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteColWidths (Metadata Paste Column Widths) | A Boolean flag indicating whether [metadata](metadata.docx) is populated by Paste: Column Widths. True if the [metadata](metadata.docx) is populated when only column widths are pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteComments (Metadata Paste Comments) | A Boolean flag indicating whether [metadata](metadata.docx) is populated by Paste: Comments. True when [metadata](metadata.docx) is populated when only [comments](comments.docx) are pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteDataValidation (Metadata Paste Data Validation) | A Boolean flag indicating whether [metadata](metadata.docx) is populated by Paste: Validation. True when [metadata](metadata.docx) is populated when only data validation is pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteFormats (Metadata Paste Formats) | A Boolean flag indicating whether [metadata](metadata.docx) is populated by Paste Special: Formats. True when [metadata](metadata.docx) is populated when only formatting is pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteFormulas (Metadata Paste Formulas) | A Boolean flag indicating whether [metadata](metadata.docx) is populated by Paste: Formulas. True when the [metadata](metadata.docx) is populated when only formulas are pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteNumberFormats (Metadata Paste Number Formats) | A Boolean flag indicating whether [metadata](metadata.docx) is populated with Paste: Number Formats. True when [metadata](metadata.docx) is populated when only number formatting is pasted, false otherwise.  The copy flag shall be set to true for this paste behavior to be respected.  [Note: the spreadsheet application can implement special pasting behavior, such as pasting everything from a [cell](cell.docx) (paste all/normal paste), pasting only [borders](borders.docx), pasting only [comments](comments.docx), or pasting only any other specific [cell](cell.docx) property. end note]  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| pasteValues (Metadata Paste Special Values) | A Boolean flag indicating whether [metadata](metadata.docx) is populated by Paste: Values.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| rowColShift (Metadata Insert Delete) | A Boolean flag indicating whether [metadata](metadata.docx) survives shifting due to [row](row.docx)/column insertion/deletion. True if the [metadata](metadata.docx) persists after the [cell](cell.docx) has been shifted, false otherwise.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| splitAll (Metadata Split All) | A Boolean flag indicating whether a merged [cell](cell.docx) split action has its [metadata](metadata.docx) copied to all of the resulting cells. True if the [metadata](metadata.docx) is copied to all new cells resulting from a split, false otherwise.  If splitFirst is also set to true, splitAll wins - that is all the cells shall have the [metadata](metadata.docx) copied to them.  The possible values for this attribute are defined by the XML [Schema](Schema.docx) boolean datatype. |
| splitFirst (Meatadata Split First) | A Boolean flag indicating whether when a merged [cell](cell.docx) is split its [metadata](metadata.docx) is copied to only the first resulting cell. True when the [metadata](metadata.docx) from a split [cell](cell.docx) is only copied to the first resulting [cell](cell.docx), false otherwise.  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\_MetadataType">

<attribute [name](name.docx)="[name](name.docx)" type="[ST\_Xstring](ST_Xstring.docx)" use="required"/>

<attribute [name](name.docx)="minSupportedVersion" type="xsd:unsignedInt" use="required"/>

<attribute name="ghostRow" type="xsd:boolean" use="optional" default="false"/>

<attribute name="ghostCol" type="xsd:boolean" use="optional" default="false"/>

<attribute name="edit" type="xsd:boolean" use="optional" default="false"/>

<attribute name="delete" type="xsd:boolean" use="optional" default="false"/>

<attribute name="copy" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteAll" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteFormulas" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteValues" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteFormats" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteComments" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteDataValidation" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteBorders" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteColWidths" type="xsd:boolean" use="optional" default="false"/>

<attribute name="pasteNumberFormats" type="xsd:boolean" use="optional" default="false"/>

<attribute name="merge" type="xsd:boolean" use="optional" default="false"/>

<attribute name="splitFirst" type="xsd:boolean" use="optional" default="false"/>

<attribute name="splitAll" type="xsd:boolean" use="optional" default="false"/>

<attribute name="rowColShift" type="xsd:boolean" use="optional" default="false"/>

<attribute [name](name.docx)="clearAll" type="xsd:boolean" default="false"/>

<attribute name="clearFormats" type="xsd:boolean" use="optional" default="false"/>

<attribute name="clearContents" type="xsd:boolean" use="optional" default="false"/>

<attribute name="clearComments" type="xsd:boolean" use="optional" default="false"/>

<attribute name="assign" type="xsd:boolean" use="optional" default="false"/>

<attribute name="coerce" type="xsd:boolean" use="optional" default="false"/>

<attribute name="adjust" type="xsd:boolean" use="optional" default="false"/>

<attribute name="cellMeta" type="xsd:boolean" use="optional" default="false"/>

</complexType>