

## :mod:`msilib` --- Read and write Microsoft Installer files

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 1); [backlink](#)**

Unknown interpreted text role "mod".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 4)**

Unknown directive type "module".

```
.. module:: msilib
   :platform: Windows
   :synopsis: Creation of Microsoft Installer files, and CAB files.
   :deprecated:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 9)**

Unknown directive type "moduleauthor".

```
.. moduleauthor:: Martin v. LÃ¶wis <martin@v.loewis.de>
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 10)**

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Martin v. LÃ¶wis <martin@v.loewis.de>
```

**Source code:** `:source:`Lib/msilib/ __init__.py``

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 12); [backlink](#)**

Unknown interpreted text role "source".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 14)**

Unknown directive type "index".

```
.. index:: single: msi
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 16)**

Unknown directive type "deprecated".

```
.. deprecated:: 3.11
   The :mod:`msilib` module is deprecated (see :pep:`594` for details).
```

The `:mod:`msilib`` supports the creation of Microsoft Installer (`.msi`) files. Because these files often contain an embedded "cabinet" file (`.cab`), it also exposes an API to create CAB files. Support for reading `.cab` files is currently not implemented; read support for the `.msi` database is possible.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 21); [backlink](#)**

Unknown interpreted text role "mod".

This package aims to provide complete access to all tables in an `.msi` file, therefore, it is a fairly low-level API. One primary application of this package is the creation of Python installer package itself (although that currently uses a different version of `msilib`).

The package contents can be roughly split into four parts: low-level CAB routines, low-level MSI routines, higher-level MSI routines, and standard table structures.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-**

**main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 36)**

Unknown directive type "function".

```
.. function:: FCICreate(cabname, files)
```

Create a new CAB file named \*cabname\*. \*files\* must be a list of tuples, each containing the name of the file on disk, and the name of the file inside the CAB file.

The files are added to the CAB file in the order they appear in the list. All files are added into a single CAB file, using the MSZIP compression algorithm.

Callbacks to Python for the various steps of MSI creation are currently not exposed.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 49)**

Unknown directive type "function".

```
.. function:: UuidCreate()
```

Return the string representation of a new unique identifier. This wraps the Windows API functions :c:func:`UuidCreate` and :c:func:`UuidToString`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 55)**

Unknown directive type "function".

```
.. function:: OpenDatabase(path, persist)
```

Return a new database object by calling MsiOpenDatabase. \*path\* is the file name of the MSI file; \*persist\* can be one of the constants ``MSIDBOPEN\_CREATEDIRECT``, ``MSIDBOPEN\_CREATE``, ``MSIDBOPEN\_DIRECT``, ``MSIDBOPEN\_READONLY``, or ``MSIDBOPEN\_TRANSACT``, and may include the flag ``MSIDBOPEN\_PATCHFILE``. See the Microsoft documentation for the meaning of these flags; depending on the flags, an existing database is opened, or a new one created.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 66)**

Unknown directive type "function".

```
.. function:: CreateRecord(count)
```

Return a new record object by calling :c:func:`MSICreateRecord`. \*count\* is the number of fields of the record.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 72)**

Unknown directive type "function".

```
.. function:: init_database(name, schema, ProductName, ProductCode, ProductVersion, Manufacturer)
```

Create and return a new database \*name\*, initialize it with \*schema\*, and set the properties \*ProductName\*, \*ProductCode\*, \*ProductVersion\*, and \*Manufacturer\*.

\*schema\* must be a module object containing ``tables`` and ``\_Validation\_records`` attributes; typically, :mod:`msilib.schema` should be used.

The database will contain just the schema and the validation records when this function returns.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 86)**

Unknown directive type "function".

```
.. function:: add_data(database, table, records)
```

Add all *\*records\** to the table named *\*table\** in *\*database\**.

The *\*table\** argument must be one of the predefined tables in the MSI schema, e.g. ``'Feature'``, ``'File'``, ``'Component'``, ``'Dialog'``, ``'Control'``, etc.

*\*records\** should be a list of tuples, each one containing all fields of a record according to the schema of the table. For optional fields, ``None`` can be passed.

Field values can be ints, strings, or instances of the Binary class.

Represents entries in the Binary table; inserting such an object using `:func:'add_data'` reads the file named *filename* into the table.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 103); [backlink](#)**

Unknown interpreted text role "func".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 107)**

Unknown directive type "function".

```
.. function:: add_tables(database, module)
```

Add all table content from *\*module\** to *\*database\**. *\*module\** must contain an attribute *\*tables\** listing all tables for which content should be added, and one attribute per table that has the actual content.

This is typically used to install the sequence tables.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 116)**

Unknown directive type "function".

```
.. function:: add_stream(database, name, path)
```

Add the file *\*path\** into the ``\_Stream`` table of *\*database\**, with the stream name *\*name\**.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 122)**

Unknown directive type "function".

```
.. function:: gen_uuid()
```

Return a new UUID, in the format that MSI typically requires (i.e. in curly braces, and with all hexdigits in uppercase).

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 128)**

Unknown directive type "seealso".

```
.. seealso::
```

```
`FCICreate <https://msdn.microsoft.com/en-us/library/bb432265.aspx>`  
`UuidCreate <https://msdn.microsoft.com/en-us/library/windows/desktop/aa379205.aspx>`  
`UuidToString <https://msdn.microsoft.com/en-us/library/windows/desktop/aa379352.aspx>`
```

## Database Objects

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 140)**

Unknown directive type "method".

```
.. method:: Database.OpenView(sql)
```

Return a view object, by calling `:c:func:'MSIDatabaseOpenView'`. *\*sql\** is the SQL

statement to execute.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 146)**

Unknown directive type "method".

```
.. method:: Database.Commit()
```

Commit the changes pending in the current transaction, by calling  
:c:func:`MSIDatabaseCommit`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 152)**

Unknown directive type "method".

```
.. method:: Database.GetSummaryInformation(count)
```

Return a new summary information object, by calling  
:c:func:`MsiGetSummaryInformation`. \*count\* is the maximum number of updated values.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 158)**

Unknown directive type "method".

```
.. method:: Database.Close()
```

Close the database object, through :c:func:`MsiCloseHandle`.

```
.. versionadded:: 3.7
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 164)**

Unknown directive type "seealso".

```
.. seealso::
```

```
`MSIDatabaseOpenView` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370082.aspx>`  
`MSIDatabaseCommit` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370075.aspx>`  
`MsiGetSummaryInformation` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370301.aspx>`  
`MsiCloseHandle` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370067.aspx>`
```

## View Objects

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 177)**

Unknown directive type "method".

```
.. method:: View.Execute(params)
```

Execute the SQL query of the view, through :c:func:`MSIViewExecute`. If  
\*params\* is not ``None``, it is a record describing actual values of the  
parameter tokens in the query.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 184)**

Unknown directive type "method".

```
.. method:: View.GetColumnInfo(kind)
```

Return a record describing the columns of the view, through calling  
:c:func:`MsiViewGetColumnInfo`. \*kind\* can be either ``MSICOLINFO\_NAMES`` or  
``MSICOLINFO\_TYPES``.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-**

**main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 191)**

Unknown directive type "method".

```
.. method:: View.Fetch()
```

Return a result record of the query, through calling :c:func:`MsiViewFetch`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 196)**

Unknown directive type "method".

```
.. method:: View.Modify(kind, data)
```

Modify the view, by calling :c:func:`MsiViewModify`. \*kind\* can be one of  
`MSIMODIFY\_SEEK`, `MSIMODIFY\_REFRESH`, `MSIMODIFY\_INSERT`,  
`MSIMODIFY\_UPDATE`, `MSIMODIFY\_ASSIGN`, `MSIMODIFY\_REPLACE`,  
`MSIMODIFY\_MERGE`, `MSIMODIFY\_DELETE`, `MSIMODIFY\_INSERT\_TEMPORARY`,  
`MSIMODIFY\_VALIDATE`, `MSIMODIFY\_VALIDATE\_NEW`,  
`MSIMODIFY\_VALIDATE\_FIELD`, or `MSIMODIFY\_VALIDATE\_DELETE`.

\*data\* must be a record describing the new data.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 208)**

Unknown directive type "method".

```
.. method:: View.Close()
```

Close the view, through :c:func:`MsiViewClose`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 213)**

Unknown directive type "seealso".

```
.. seealso::
```

`MsiViewExecute` <<https://msdn.microsoft.com/en-us/library/windows/desktop/aa370513.aspx>>  
`MsiViewGetColumnInfo` <<https://msdn.microsoft.com/en-us/library/windows/desktop/aa370516.aspx>>  
`MsiViewFetch` <<https://msdn.microsoft.com/en-us/library/windows/desktop/aa370514.aspx>>  
`MsiViewModify` <<https://msdn.microsoft.com/en-us/library/windows/desktop/aa370519.aspx>>  
`MsiViewClose` <<https://msdn.microsoft.com/en-us/library/windows/desktop/aa370510.aspx>>

## Summary Information Objects

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 227)**

Unknown directive type "method".

```
.. method:: SummaryInformation.GetProperty(field)
```

Return a property of the summary, through :c:func:`MsiSummaryInfoGetProperty`.  
\*field\* is the name of the property, and can be one of the constants  
`PID\_CODEPAGE`, `PID\_TITLE`, `PID\_SUBJECT`, `PID\_AUTHOR`,  
`PID\_KEYWORDS`, `PID\_COMMENTS`, `PID\_TEMPLATE`, `PID\_LASTAUTHOR`,  
`PID\_REVNUMBER`, `PID\_LASTPRINTED`, `PID\_CREATE\_DTM`,  
`PID\_LASTSAVE\_DTM`, `PID\_PAGECOUNT`, `PID\_WORDCOUNT`, `PID\_CHARCOUNT`,  
`PID\_APPNAME`, or `PID\_SECURITY`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 238)**

Unknown directive type "method".

```
.. method:: SummaryInformation.GetPropertyCount()
```

Return the number of summary properties, through  
:c:func:`MsiSummaryInfoGetPropertyCount`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 244)**

Unknown directive type "method".

```
.. method:: SummaryInformation.SetProperty(field, value)
```

Set a property through :c:func:`MsiSummaryInfoSetProperty`. \*field\* can have the same values as in :meth:`GetProperty`, \*value\* is the new value of the property. Possible value types are integer and string.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 251)**

Unknown directive type "method".

```
.. method:: SummaryInformation.Persist()
```

Write the modified properties to the summary information stream, using :c:func:`MsiSummaryInfoPersist`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 257)**

Unknown directive type "seealso".

```
.. seealso::
```

```
`MsiSummaryInfoGetProperty` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370409.aspx>`  
`MsiSummaryInfoGetPropertyCount` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370488.aspx>`  
`MsiSummaryInfoSetProperty` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370491.aspx>`  
`MsiSummaryInfoPersist` <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370490.aspx>`_
```

## Record Objects

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 270)**

Unknown directive type "method".

```
.. method:: Record.GetFieldCount()
```

Return the number of fields of the record, through :c:func:`MsiRecordGetFieldCount`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 276)**

Unknown directive type "method".

```
.. method:: Record.GetInteger(field)
```

Return the value of \*field\* as an integer where possible. \*field\* must be an integer.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 282)**

Unknown directive type "method".

```
.. method:: Record.GetString(field)
```

Return the value of \*field\* as a string where possible. \*field\* must be an integer.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 288)**

Unknown directive type "method".

```
.. method:: Record.SetString(field, value)
```

Set *\*field\** to *\*value\** through :c:func:`MsiRecordSetString`. *\*field\** must be an integer; *\*value\** a string.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 294)**

Unknown directive type "method".

```
.. method:: Record.SetStream(field, value)
```

Set *\*field\** to the contents of the file named *\*value\**, through :c:func:`MsiRecordSetStream`. *\*field\** must be an integer; *\*value\** a string.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 300)**

Unknown directive type "method".

```
.. method:: Record.SetInteger(field, value)
```

Set *\*field\** to *\*value\** through :c:func:`MsiRecordSetInteger`. Both *\*field\** and *\*value\** must be an integer.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 306)**

Unknown directive type "method".

```
.. method:: Record.ClearData()
```

Set all fields of the record to 0, through :c:func:`MsiRecordClearData`.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 311)**

Unknown directive type "seealso".

```
.. seealso::
```

```
`MsiRecordGetFieldCount <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370366.aspx>`  
`MsiRecordSetString <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370373.aspx>`  
`MsiRecordSetStream <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370372.aspx>`  
`MsiRecordSetInteger <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370371.aspx>`  
`MsiRecordClearData <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370364.aspx>`
```

## Errors

All wrappers around MSI functions raise :exc:`MSIError`; the string inside the exception will contain more detail.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 324); [backlink](#)**

Unknown interpreted text role "exc".

## CAB Objects

The class :class:`CAB` represents a CAB file. During MSI construction, files will be added simultaneously to the Files table, and to a CAB file. Then, when all files have been added, the CAB file can be written, then added to the MSI file.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 336); [backlink](#)**

Unknown interpreted text role "class".

*name* is the name of the CAB file in the MSI file.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 344)**

Unknown directive type "method".

```
.. method:: append(full, file, logical)
```

Add the file with the pathname *\*full\** to the CAB file, under the name *\*logical\**. If there is already a file named *\*logical\**, a new file name is created.

Return the index of the file in the CAB file, and the new name of the file inside the CAB file.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 354)**

Unknown directive type "method".

```
.. method:: commit(database)
```

Generate a CAB file, add it as a stream to the MSI file, put it into the ``Media`` table, and remove the generated file from the disk.

## Directory Objects

Create a new directory in the Directory table. There is a current component at each point in time for the directory, which is either explicitly created through `meth: start_component`, or implicitly when files are added for the first time. Files are added into the current component, and into the cab file. To create a directory, a base directory object needs to be specified (can be `None`), the path to the physical directory, and a logical directory name. *default* specifies the DefaultDir slot in the directory table. *componentflags* specifies the default flags that new components get.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 368); [backlink](#)**

Unknown interpreted text role "meth".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 378)**

Unknown directive type "method".

```
.. method:: start_component(component=None, feature=None, flags=None, keyfile=None, uuid=None)
```

Add an entry to the Component table, and make this component the current component for this directory. If no component name is given, the directory name is used. If no *\*feature\** is given, the current feature is used. If no *\*flags\** are given, the directory's default flags are used. If no *\*keyfile\** is given, the KeyPath is left null in the Component table.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 387)**

Unknown directive type "method".

```
.. method:: add_file(file, src=None, version=None, language=None)
```

Add a file to the current component of the directory, starting a new one if there is no current component. By default, the file name in the source and the file table will be identical. If the *\*src\** file is specified, it is interpreted relative to the current directory. Optionally, a *\*version\** and a *\*language\** can be specified for the entry in the File table.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 396)**

Unknown directive type "method".

```
.. method:: glob(pattern, exclude=None)
```

Add a list of files to the current component as specified in the glob pattern. Individual files can be excluded in the *\*exclude\** list.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 402)**

Unknown directive type "method".



```
.. method:: remove_pyc()

Remove ``.pyc`` files on uninstall.
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 407)**

Unknown directive type "seealso".

```
.. seealso::

`Directory Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368295.aspx>`
`File Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368596.aspx>`
`Component Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368007.aspx>`
`FeatureComponents Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368579.aspx>`
```

## Features

Add a new record to the `Feature` table, using the values `id`, `parent.id`, `title`, `desc`, `display`, `level`, `directory`, and `attributes`. The resulting feature object can be passed to the `meth`start_component`` method of `class`Directory``.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 422); [backlink](#)**

Unknown interpreted text role "meth".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 422); [backlink](#)**

Unknown interpreted text role "class".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 428)**

Unknown directive type "method".

```
.. method:: set_current()

Make this feature the current feature of :mod:`msilib`. New components are
automatically added to the default feature, unless a feature is explicitly
specified.
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 435)**

Unknown directive type "seealso".

```
.. seealso::

`Feature Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368585.aspx>`
```

## GUI classes

`mod`msilib`` provides several classes that wrap the GUI tables in an MSI database. However, no standard user interface is provided.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 444); [backlink](#)**

Unknown interpreted text role "mod".

Base class of the dialog controls. `dlg` is the dialog object the control belongs to, and `name` is the control's name.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 454)**

Unknown directive type "method".

```
.. method:: event(event, argument, condition=1, ordering=None)

Make an entry into the ``ControlEvent`` table for this control.
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 459)**

Unknown directive type "method".

```
.. method:: mapping(event, attribute)
```

Make an entry into the ``EventMapping`` table for this control.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 464)**

Unknown directive type "method".

```
.. method:: condition(action, condition)
```

Make an entry into the ``ControlCondition`` table for this control.

Create a radio button control named *name*. *property* is the installer property that gets set when a radio button is selected.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 475)**

Unknown directive type "method".

```
.. method:: add(name, x, y, width, height, text, value=None)
```

Add a radio button named *\*name\** to the group, at the coordinates *\*x\**, *\*y\**, *\*width\**, *\*height\**, and with the label *\*text\**. If *\*value\** is ``None``, it defaults to *\*name\**.

Return a new `:class:`Dialog`` object. An entry in the `Dialog` table is made, with the specified coordinates, dialog attributes, title, name of the first, default, and cancel controls.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 484); [backlink](#)**

Unknown interpreted text role "class".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 489)**

Unknown directive type "method".

```
.. method:: control(name, type, x, y, width, height, attributes, property, text, control_next, help)
```

Return a new `:class:`Control`` object. An entry in the ``Control`` table is made with the specified parameters.

This is a generic method; for specific types, specialized methods are provided.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 498)**

Unknown directive type "method".

```
.. method:: text(name, x, y, width, height, attributes, text)
```

Add and return a ``Text`` control.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 503)**

Unknown directive type "method".

```
.. method:: bitmap(name, x, y, width, height, text)
```

Add and return a ``Bitmap`` control.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-**

Unknown directive type "method".

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 513)**

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 518)**

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 523)**

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 528)**

```
.. seealso::

`Dialog Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368286.aspx>`
`Control Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368044.aspx>`
`Control Types <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368039.aspx>`
`ControlCondition Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368035.aspx>`
`ControlEvents Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368037.aspx>`
`EventMapping Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa368559.aspx>`
`RadioButton Table <https://msdn.microsoft.com/en-us/library/windows/desktop/aa370962.aspx>`
```

`mod:msilib` provides a few subpackages that contain only schema and table definitions. Currently, these definitions are based on MSI version 2.0.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main) (Doc) (library)msilib.rst, line 543): [backlink](#)**

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 547)**

This is the standard MSI schema for MSI 2.0, with the `*tables*` variable providing a list of table definitions, and `*_Validation_records*` providing the data for MSI validation.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-**

**main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 554)**

Unknown directive type "data".

```
.. data:: sequence
```

This module contains table contents for the standard sequence tables:  
\*AdminExecuteSequence\*, \*AdminUISequence\*, \*AdvtExecuteSequence\*,  
\*InstallExecuteSequence\*, and \*InstallUISequence\*.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)msilib.rst, line 561)**

Unknown directive type "data".

```
.. data:: text
```

This module contains definitions for the UIText and ActionText tables, for the standard installer actions.