

gconfmm

2.28.3

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# Chapter 1

## gconfmm Reference Manual

### 1.1 Description

gconfmm is the official C++ interface for the GConf client API for storing and retrieving configuration data. See [Gnome::Conf::Client](#).

### 1.2 Basic Usage

Include the gconfmm header:

```
#include <gconfmm.h>
```

(You may include individual headers, such as `gconfmm/client.h` instead.)

If your source file is `program.cc`, you can compile it with:

```
g++ program.cc -o program `pkg-config --cflags --libs gconfmm-2.6`
```

Alternatively, if using autoconf, use the following in `configure.ac`:

```
PKG_CHECK_MODULES([GCONFMM], [gconfmm-2.4])
```

Then use the generated `GCONFMM_CFLAGS` and `GCONFMM_LIBS` variables in the project `Makefile.am` files. For example:

```
program_CPPFLAGS = $(GCONFMM_CFLAGS)
program_LDADD = $(GCONFMM_LIBS)
```



## Chapter 2

# Module Index

### 2.1 Modules

Here is a list of all modules:

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## Chapter 3

# Namespace Index

### 3.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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<a href="#">Gnome</a>	.....	<a href="#">13</a>
<a href="#">Gnome::Conf</a>	.....	<a href="#">13</a>



## Chapter 4

# Hierarchical Index

### 4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Glib::Error	
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Gnome::Conf::Client . . . . .	<a href="#">15</a>
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Gnome::Conf::SetInterface . . . . .	<a href="#">50</a>
Gnome::Conf::ChangeSet . . . . .	<a href="#">15</a>
Gnome::Conf::Client . . . . .	<a href="#">15</a>
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## Chapter 5

# Class Index

### 5.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">Gnome::Conf::ChangeSet</a>	
A <a href="#">ChangeSet</a> is a set of changes to the GConf database that can be committed and reversed easily	15
<a href="#">Gnome::Conf::Client</a>	
The main <a href="#">Gnome::Conf</a> object	15
<a href="#">Gnome::Conf::Entry</a>	
An <a href="#">Entry</a> stores an entry from a GConf "directory", including a key-value pair, the name of the <a href="#">Schema</a> applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key	38
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<a href="#">Gnome::Conf::Schema</a>	45
<a href="#">Gnome::Conf::SetInterface</a>	
Common Interface for key-value settable objects	50
<a href="#">Gnome::Conf::Value</a>	
Wrapper for primitive types	53



## Chapter 6

# Module Documentation

### 6.1 gconfmm Enums and Flags

#### Enumerations

- enum `Gnome::Conf::ClientErrorHandlingMode` {  
    `Gnome::Conf::CLIENT_HANDLE_NONE` ,  
    `Gnome::Conf::CLIENT_HANDLE_UNRETURNED` ,  
    `Gnome::Conf::CLIENT_HANDLE_ALL` }
- enum `Gnome::Conf::ClientPreloadType` {  
    `Gnome::Conf::CLIENT_PRELOAD_NONE` ,  
    `Gnome::Conf::CLIENT_PRELOAD_ONELEVEL` ,  
    `Gnome::Conf::CLIENT_PRELOAD_RECURSIVE` }
- enum `Gnome::Conf::ValueType` {  
    `Gnome::Conf::VALUE_INVALID` ,  
    `Gnome::Conf::VALUE_STRING` ,  
    `Gnome::Conf::VALUE_INT` ,  
    `Gnome::Conf::VALUE_FLOAT` ,  
    `Gnome::Conf::VALUE_BOOL` ,  
    `Gnome::Conf::VALUE_SCHEMA` ,  
    `Gnome::Conf::VALUE_LIST` ,  
    `Gnome::Conf::VALUE_PAIR` }
- enum `Gnome::Conf::UnsetFlags` { `Gnome::Conf::UNSET_INCLUDING_SCHEMA_NAMES` }

#### 6.1.1 Detailed Description

#### 6.1.2 Enumeration Type Documentation

##### 6.1.2.1 ClientErrorHandlingMode

```
enum Gnome::Conf::ClientErrorHandlingMode
```

**Enumerator**

CLIENT_HANDLE_NONE	
CLIENT_HANDLE_UNRETURNED	
CLIENT_HANDLE_ALL	

**6.1.2.2 ClientPreloadType**

enum `Gnome::Conf::ClientPreloadType`

**Enumerator**

CLIENT_PRELOAD_NONE	
CLIENT_PRELOAD_ONELEVEL	
CLIENT_PRELOAD_RECURSIVE	

**6.1.2.3 UnsetFlags**

enum `Gnome::Conf::UnsetFlags`

**Enumerator**

UNSET_INCLUDING_SCHEMA_NAMES	
------------------------------	--

**6.1.2.4 ValueType**

enum `Gnome::Conf::ValueType`

**Enumerator**

VALUE_INVALID	
VALUE_STRING	
VALUE_INT	
VALUE_FLOAT	
VALUE_BOOL	
VALUE_SCHEMA	
VALUE_LIST	
VALUE_PAIR	

## Chapter 7

# Namespace Documentation

### 7.1 Glib Namespace Reference

### 7.2 Gnome Namespace Reference

#### Namespaces

- namespace [Conf](#)

### 7.3 Gnome::Conf Namespace Reference

#### Classes

- class [ChangeSet](#)  
*A [ChangeSet](#) is a set of changes to the GConf database that can be committed and reversed easily.*
- class [Client](#)  
*The main [Gnome::Conf](#) object.*
- class [Entry](#)  
*An [Entry](#) stores an entry from a GConf "directory", including a key-value pair, the name of the [Schema](#) applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key.*
- class [Error](#)  
*Exception class for [Gnome::Conf::Client](#) errors.*
- class [Schema](#)
- class [SetInterface](#)  
*Common Interface for key-value settable objects.*
- class [Value](#)  
*Wrapper for primitive types.*

#### Typedefs

- typedef **std::pair**< [Value](#), [Value](#) > [ValuePair](#)
- typedef **std::pair**< [ValueType](#), [ValueType](#) > [ValueTypePair](#)
- typedef sigc::slot< void, guint, [Entry](#) > [Callback](#)

## Enumerations

- enum [ClientErrorHandlingMode](#) {  
    [CLIENT\\_HANDLE\\_NONE](#) ,  
    [CLIENT\\_HANDLE\\_UNRETURNED](#) ,  
    [CLIENT\\_HANDLE\\_ALL](#) }
- enum [ClientPreloadType](#) {  
    [CLIENT\\_PRELOAD\\_NONE](#) ,  
    [CLIENT\\_PRELOAD\\_ONELEVEL](#) ,  
    [CLIENT\\_PRELOAD\\_RECURSIVE](#) }
- enum [ValueType](#) {  
    [VALUE\\_INVALID](#) ,  
    [VALUE\\_STRING](#) ,  
    [VALUE\\_INT](#) ,  
    [VALUE\\_FLOAT](#) ,  
    [VALUE\\_BOOL](#) ,  
    [VALUE\\_SCHEMA](#) ,  
    [VALUE\\_LIST](#) ,  
    [VALUE\\_PAIR](#) }
- enum [UnsetFlags](#) { [UNSET\\_INCLUDING\\_SCHEMA\\_NAMES](#) }

## Functions

- void [init](#) ()

### 7.3.1 Typedef Documentation

#### 7.3.1.1 Callback

```
typedef sigc::slot<void, guint, Entry> Gnome::Conf::Callback
```

#### 7.3.1.2 ValuePair

```
typedef std::pair<Value, Value> Gnome::Conf::ValuePair
```

#### 7.3.1.3 ValueTypePair

```
typedef std::pair<ValueType, ValueType> Gnome::Conf::ValueTypePair
```

### 7.3.2 Function Documentation

#### 7.3.2.1 init()

```
void Gnome::Conf::init ( )
```

## Chapter 8

# Class Documentation

### 8.1 Gnome::Conf::ChangeSet Class Reference

A [ChangeSet](#) is a set of changes to the GConf database that can be committed and reversed easily.

```
#include <gconfmm/changeset.h>
```

Inheritance diagram for Gnome::Conf::ChangeSet:

### 8.2 Gnome::Conf::Client Class Reference

The main [Gnome::Conf](#) object.

```
#include <gconfmm/client.h>
```

Inheritance diagram for Gnome::Conf::Client:

Collaboration diagram for Gnome::Conf::Client:

#### Public Types

- typedef Glib::SListHandle< int, BasicTypeTraits< int > > [SListHandleInts](#)
- typedef Glib::SListHandle< bool, BasicTypeTraits< bool > > [SListHandleBools](#)
- typedef Glib::SListHandle< double, BasicTypeTraits< double > > [SListHandleFloats](#)

## Public Member Functions

- virtual [~Client](#) ()
- GConfClient \* [gobj](#) ()
 

*Provides access to the underlying C GObject.*
- const GConfClient \* [gobj](#) () const
 

*Provides access to the underlying C GObject.*
- GConfClient \* [gobj\\_copy](#) ()
 

*Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting fields in structs.*
- void [add\\_dir](#) (const Glib::ustring &dir, [ClientPreloadType](#) preload=[CLIENT\\_PRELOAD\\_NONE](#))
 

*Add a directory to the list of directories the [Client](#) will watch.*
- void [remove\\_dir](#) (const Glib::ustring &dir)
 

*Remove a directory from the list of directories the [Client](#) will watch.*
- guint [notify\\_add](#) (const Glib::ustring &namespace\_section, [Callback](#) callback)
 

*Request notification of changes to namespace\_section.*
- void [notify\\_remove](#) (guint cnxn)
 

*Cancel a notification request.*
- void [notify](#) (const Glib::ustring &key)
 

*Emits the value\_changed signal and notifies listeners as if key had been changed.*
- void [set\\_error\\_handling](#) ([ClientErrorHandlingMode](#) mode)
- void [clear\\_cache](#) ()
 

*Clear the client-side cache.*
- void [preload](#) (const Glib::ustring &dirname, [ClientPreloadType](#) type)
 

*Preloads a directory.*
- [Value](#) [get](#) (const Glib::ustring &key) const
 

*Get the value of a configuration key.*
- [Value](#) [get\\_without\\_default](#) (const Glib::ustring &key) const
 

*Get the value of a configuration key, without falling back to the default if the key has not been set.*
- [Value](#) [get\\_default\\_from\\_schema](#) (const Glib::ustring &key) const
 

*Get the default value of this key by looking it up in the appropriate schema.*
- [Entry](#) [get\\_entry](#) (const Glib::ustring &key, bool use\_schema\_default=true) const
 

*Get the complete [Entry](#) of the specified key.*
- [Entry](#) [get\\_entry](#) (const Glib::ustring &key, const char \*locale, bool use\_schema\_default=true) const
 

*Get the complete [Entry](#) of the specified key.*
- void [unset](#) (const Glib::ustring &key)
 

*Unset a configuration key.*
- void [recursive\\_unset](#) (const Glib::ustring &key, [UnsetFlags](#) flags=[UNSET\\_INCLUDING\\_SCHEMA\\_NAMES](#))
 

*Unsets all keys below key, including key itself.*
- Glib::SListHandle< [Entry](#) > [all\\_entries](#) (const Glib::ustring &dir) const
 

*Retrieve all keys in the given configuration directory.*
- Glib::SListHandle< Glib::ustring > [all\\_dirs](#) (const Glib::ustring &dir) const
 

*Retrieve all subdirectories of a given configuration directory.*
- void [suggest\\_sync](#) ()
 

*Suggest to the GConf server that a sync of cached data to stable storage would be appropriate now.*
- bool [dir\\_exists](#) (const Glib::ustring &p1) const
 

*Determine whether a given configuration directory exists.*
- bool [key\\_is\\_writable](#) (const Glib::ustring &p1) const
 

*Determine whether a given configuration key is writeable by the application.*
- double [get\\_float](#) (const Glib::ustring &key) const
 

*Get the float value at the given configuration key.*



- gint [get\\_int](#) (const Glib::ustring &key) const  
*Get the integer at the given configuration key.*
- bool [get\\_bool](#) (const Glib::ustring &key) const  
*Get the boolean at the given configuration key.*
- Glib::ustring [get\\_string](#) (const Glib::ustring &key) const  
*Get the string at the given configuration key.*
- [Schema](#) [get\\_schema](#) (const Glib::ustring &key) const  
*Get the [Schema](#) at the given configuration key.*
- SListHandle\_ValueInt [get\\_int\\_list](#) (const Glib::ustring &key) const  
*Get the list of integers at the given configuration key.*
- SListHandle\_ValueBool [get\\_bool\\_list](#) (const Glib::ustring &key) const  
*Get the list of booleans at the given configuration key.*
- SListHandle\_ValueFloat [get\\_float\\_list](#) (const Glib::ustring &key) const  
*Get the list of doubles at the given configuration key.*
- SListHandle\_ValueSchema [get\\_schema\\_list](#) (const Glib::ustring &key) const  
*Get the list of Schemas at the given configuration key.*
- SListHandle\_ValueString [get\\_string\\_list](#) (const Glib::ustring &key) const  
*Get the list of strings at the given configuration key.*
- [ValuePair](#) [get\\_pair](#) (const Glib::ustring &key, [ValueTypePair](#) types) const  
*Get the pair at the given configuration key.*
- void [set](#) (const Glib::ustring &key, int what)  
*Set the given configuration key to the specified integer value.*
- void [set](#) (const Glib::ustring &key, bool what)  
*Set the given configuration key to the specified boolean value.*
- void [set](#) (const Glib::ustring &key, double what)  
*Set the given configuration key to the specified double value.*
- void [set](#) (const Glib::ustring &key, const Glib::ustring &what)  
*Set the given configuration key to the specified string.*
- void [set](#) (const Glib::ustring &key, const [Schema](#) &what)  
*Set the given configuration key to the specified [Schema](#).*
- void [set](#) (const Glib::ustring &key, const [Value](#) &what)  
*Set the given configuration key to the specified [Value](#).*
- void [set\\_int\\_list](#) (const Glib::ustring &key, const SListHandleInts &what)
- void [set\\_bool\\_list](#) (const Glib::ustring &key, const SListHandleBools &what)
- void [set\\_float\\_list](#) (const Glib::ustring &key, const SListHandleFloats &what)
- void [set\\_schema\\_list](#) (const Glib::ustring &key, const Glib::SListHandle< [Schema](#) > &what)
- void [set\\_string\\_list](#) (const Glib::ustring &key, const Glib::SListHandle< Glib::ustring > &what)
- [ChangeSet](#) [change\\_set\\_from\\_current](#) (const Glib::SArray &set)  
*Create a [ChangeSet](#) from the current values of the configuration database.*
- void [change\\_set\\_commit](#) ([ChangeSet](#) &set, bool remove\_committed)  
*Commit the [ChangeSet](#) to the configuration database.*
- [ChangeSet](#) [change\\_set\\_reverse](#) (const [ChangeSet](#) &set)  
*Creates a [ChangeSet](#) to reverse the effects of the given [ChangeSet](#).*
- Glib::SignalProxy2< void, const Glib::ustring &, const [Value](#) & > [signal\\_value\\_changed](#) ()  
*A signal emitted when a value changes.*
- void [value\\_changed](#) (const Glib::ustring &key, const [Value](#) &value)
- Glib::SignalProxy1< void, const Glib::Error & > [signal\\_error](#) ()  
*A signal emitted when an error occurs.*
- void [error](#) (const Glib::Error &error)

## Static Public Member Functions

- static Glib::RefPtr< Client > `get_default_client` ()  
*Get the default client object for this application.*
- static Glib::RefPtr< Client > `get_client_for_engine` (GConfEngine \*engine)

## Protected Member Functions

- virtual void `on_value_changed` (const Glib::ustring &key, const Value &value)
- virtual void `on_unreturned_error` (const Glib::Error &error)
- virtual void `on_error` (const Glib::Error &error)

## Related Functions

(Note that these are not member functions.)

- Glib::RefPtr< Gnome::Conf::Client > `wrap` (GConfClient \*object, bool take\_copy=false)  
*A Glib::wrap() method for this object.*

### 8.2.1 Detailed Description

The main `Gnome::Conf` object.

This class allows you to interface with the `Gnome` configuration system. Generally, it stores key-value pairs. The keys have an hierarchical namespace, with elements separated by slashes. The values are either typed primitives (int, bool, string, float or a `Schema`), or lists of primitives or pairs of primitives (for limits on the compound values, see `Value`). For conventions on the names of keys, see the GConf documentation.

### 8.2.2 Member Typedef Documentation

#### 8.2.2.1 SListHandleBools

```
typedef Glib::SListHandle< bool, BasicTypeTraits<bool> > Gnome::Conf::Client::SListHandleBools
```

#### 8.2.2.2 SListHandleFloats

```
typedef Glib::SListHandle< double, BasicTypeTraits<double> > Gnome::Conf::Client::SListHandleFloats
```

### 8.2.2.3 SListHandleInts

```
typedef Glib::SListHandle< int, BasicTypeTraits<int> > Gnome::Conf::Client::SListHandleInts
```

## 8.2.3 Constructor & Destructor Documentation

### 8.2.3.1 ~Client()

```
virtual Gnome::Conf::Client::~~Client ( ) [virtual]
```

## 8.2.4 Member Function Documentation

### 8.2.4.1 add\_dir()

```
void Gnome::Conf::Client::add_dir (
    const Glib::ustring & dir,
    ClientPreloadType preload = CLIENT_PRELOAD_NONE )
```

Add a directory to the list of directories the [Client](#) will watch.

Any changes to keys below this directory will cause the "value\_changed" signal to be emitted. When you add the directory, you can request that the [Client](#) preloads its contents - see ClientPreloadType for details.

Added directories may not overlap. That is, if you add "/foo", you may not add "/foo/bar". However you can add "/foo" and "/bar". You can also add "/foo" multiple times; if you add a directory multiple times, it will not be removed until you call [remove\\_dir\(\)](#) an equal number of times.

#### Parameters

<i>dir</i>	the directory to watch.
<i>preload</i>	the preload type (if any) to be performed.

### 8.2.4.2 all\_dirs()

```
Glib::SListHandle< Glib::ustring > Gnome::Conf::Client::all_dirs (
    const Glib::ustring & dir ) const
```

Retrieve all subdirectories of a given configuration directory.

**Parameters**

<i>dir</i>	the configuration directory to scan.
------------	--------------------------------------

**Returns**

a container with the names of the subdirectories.

**Exceptions**

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.3 all\_entries()**

```
Glib::SListHandle< Entry > Gnome::Conf::Client::all_entries (
    const Glib::ustring & dir ) const
```

Retrieve all keys in the given configuration directory.

Get all the configuration keys in the given directory, without recursion.

**Parameters**

<i>dir</i>	the configuration directory to scan.
------------	--------------------------------------

**Returns**

a container with the names of the configuration keys.

**Exceptions**

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.4 change\_set\_commit()**

```
void Gnome::Conf::Client::change_set_commit (
    ChangeSet & set,
    bool remove_committed )
```

Commit the [ChangeSet](#) to the configuration database.

Commits the configuration changes in the [ChangeSet](#) to the database. If `remove_committed` is `true`, all successfully committed keys will be removed from the [ChangeSet](#). If an error occurs, a [Gnome::Conf::Error](#) will be thrown. This operation is not atomic - an error will be thrown on the first error.

## Parameters

<i>set</i>	the <a href="#">ChangeSet</a> to commit.
<i>remove_committed</i>	whether to remove successfully-commited keys from the <a href="#">ChangeSet</a> .

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

## See also

[ChangeSet](#)**8.2.4.5 change\_set\_from\_current()**

```
ChangeSet Gnome::Conf::Client::change_set_from_current (
    const Glib::SArray & set )
```

Create a [ChangeSet](#) from the current values of the configuration database.

Creates a [ChangeSet](#) containing the current values of all the keys listed in the *set*. For instance, this could be used in a preferences dialog as an undo operation.

## Parameters

<i>set</i>	A container of the configuration keys to backup.
------------	--

## Returns

the [ChangeSet](#) with the current values.

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

## See also

[ChangeSet](#)**8.2.4.6 change\_set\_reverse()**

```
ChangeSet Gnome::Conf::Client::change_set_reverse (
    const ChangeSet & set )
```

Creates a [ChangeSet](#) to reverse the effects of the given [ChangeSet](#).

Creates a [ChangeSet](#) that contains the current values of the keys in `set`, effectively creating a back-up of the values in the database that will be modified when the `set` will be committed. For instance, this allows you to create a back-up changeset to use in case of errors, or an undo facility for preferences.

#### Parameters

<code>set</code>	the <a href="#">ChangeSet</a> to reverse.
------------------	---

#### Returns

the reverse [ChangeSet](#).

#### Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

#### See also

[ChangeSet](#)

#### 8.2.4.7 clear\_cache()

```
void Gnome::Conf::Client::clear_cache ( )
```

Clear the client-side cache.

#### 8.2.4.8 dir\_exists()

```
bool Gnome::Conf::Client::dir_exists (
    const Glib::ustring & p1 ) const
```

Determine whether a given configuration directory exists.

#### Returns

true if the directory exists.

#### Exceptions

<a href="#">Gnome::Conf::Error</a> .	
--------------------------------------	--

#### 8.2.4.9 error()

```
void Gnome::Conf::Client::error (
    const Glib::Error & error )
```

#### 8.2.4.10 get()

```
Value Gnome::Conf::Client::get (
    const Glib::ustring & key ) const
```

Get the value of a configuration key.

@parameter key: the configuration key to retrieve.

##### Returns

the [Value](#) of the key.

##### Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

#### 8.2.4.11 get\_bool()

```
bool Gnome::Conf::Client::get_bool (
    const Glib::ustring & key ) const
```

Get the boolean at the given configuration key.

#### 8.2.4.12 get\_bool\_list()

```
SListHandle_ValueBool Gnome::Conf::Client::get_bool_list (
    const Glib::ustring & key ) const
```

Get the list of booleans at the given configuration key.

#### 8.2.4.13 get\_client\_for\_engine()

```
static Glib::RefPtr< Client > Gnome::Conf::Client::get_client_for_engine (
    GConfEngine * engine ) [static]
```

#### 8.2.4.14 `get_default_client()`

```
static Glib::RefPtr< Client > Gnome::Conf::Client::get_default_client ( ) [static]
```

Get the default client object for this application.

The object is a Singleton, so you will always get the same instance. Most applications should use this.

#### 8.2.4.15 `get_default_from_schema()`

```
Value Gnome::Conf::Client::get_default_from_schema (
    const Glib::ustring & key ) const
```

Get the default value of this key by looking it up in the appropriate schema.

@parameter key: the configuration key to retrieve.

##### Returns

the default [Value](#) of the key.

##### Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

#### 8.2.4.16 `get_entry()` [1/2]

```
Entry Gnome::Conf::Client::get_entry (
    const Glib::ustring & key,
    bool use_schema_default = true ) const
```

Get the complete [Entry](#) of the specified key.

Uses the default locale

##### Parameters

<i>key</i>	the configuration key to retrieve.
<i>use_schema_default</i>	whether to fall back to the <a href="#">Schema</a> default value if the specified configuration key has not been set.

##### Returns

an [Entry](#) for the corresponding configuration key.



## Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.17** `get_entry()` [2/2]

```
Entry Gnome::Conf::Client::get_entry (
    const Glib::ustring & key,
    const char * locale,
    bool use_schema_default = true ) const
```

Get the complete [Entry](#) of the specified key.

## Parameters

<i>key</i>	the configuration key to retrieve.
<i>locale</i>	the locale for the user-visible strings in the <a href="#">Entry</a> 's <a href="#">Schema</a> . Use 0 to use the default.
<i>use_schema_default</i>	whether to fall back to the <a href="#">Schema</a> default value if the specified configuration key has not been set.

## Returns

an [Entry](#) for the corresponding configuration key.

## Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.18** `get_float()`

```
double Gnome::Conf::Client::get_float (
    const Glib::ustring & key ) const
```

Get the float value at the given configuration key.

Throws an error if the key does not contain the appropriate type.

## Parameters

<i>key</i>	the configuration key to fetch.
------------	---------------------------------

**Returns**

the value at the specified configuration key.

**Exceptions**

<a href="#"><i>Gnome::Conf::Error</i></a>	
---	--

**8.2.4.19 get\_float\_list()**

```
SListHandle_ValueFloat Gnome::Conf::Client::get_float_list (
    const Glib::ustring & key ) const
```

Get the list of doubles at the given configuration key.

**8.2.4.20 get\_int()**

```
gint Gnome::Conf::Client::get_int (
    const Glib::ustring & key ) const
```

Get the integer at the given configuration key.

**8.2.4.21 get\_int\_list()**

```
SListHandle_ValueInt Gnome::Conf::Client::get_int_list (
    const Glib::ustring & key ) const
```

Get the list of integers at the given configuration key.

If the given key is not a list, or the list elements are not of the appropriate type, an error will be thrown.

**Parameters**

<i>key</i>	the configuration key that contains the list.
------------	---

**Returns**

a Glib::SListHandle of the appropriate type.

**Exceptions**

<a href="#"><i>Gnome::Conf::Error</i></a>	
---	--

#### 8.2.4.22 get\_pair()

```
ValuePair Gnome::Conf::Client::get_pair (
    const Glib::ustring & key,
    ValueTypePair types ) const
```

Get the pair at the given configuration key.

The pair's elements must have the types given in `types` respectively. If the value is not a pair or the types do not match, an error will be thrown.

##### Parameters

<i>key</i>	the configuration key that contains the pair.
<i>types</i>	a pair of the expected types of the values.

##### Returns

a ValuePair.

##### Exceptions

<a href="#"><i>Gnome::Conf::Error</i></a>	
---	--

#### 8.2.4.23 get\_schema()

```
Schema Gnome::Conf::Client::get_schema (
    const Glib::ustring & key ) const
```

Get the [Schema](#) at the given configuration key.

#### 8.2.4.24 get\_schema\_list()

```
SListHandle_ValueSchema Gnome::Conf::Client::get_schema_list (
    const Glib::ustring & key ) const
```

Get the list of Schemas at the given configuration key.

**8.2.4.25 get\_string()**

```
Glib::ustring Gnome::Conf::Client::get_string (
    const Glib::ustring & key ) const
```

Get the string at the given configuration key.

**8.2.4.26 get\_string\_list()**

```
SListHandle_ValueString Gnome::Conf::Client::get_string_list (
    const Glib::ustring & key ) const
```

Get the list of strings at the given configuration key.

**8.2.4.27 get\_without\_default()**

```
Value Gnome::Conf::Client::get_without_default (
    const Glib::ustring & key ) const
```

Get the value of a configuration key, without falling back to the default if the key has not been set.

In that case, the type of the value will be VALUE\_INVALID.

**Parameters**

<i>key</i>	the configuration key to retrieve.
------------	------------------------------------

**Returns**

the [Value](#) of the key.

**Exceptions**

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.28 gobj() [1/2]**

```
GConfClient * Gnome::Conf::Client::gobj ( ) [inline]
```

Provides access to the underlying C GObject.

#### 8.2.4.29 gobj() [2/2]

```
const GConfClient * Gnome::Conf::Client::gobj ( ) const [inline]
```

Provides access to the underlying C GObject.

#### 8.2.4.30 gobj\_copy()

```
GConfClient * Gnome::Conf::Client::gobj_copy ( )
```

Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting fields in structs.

#### 8.2.4.31 key\_is\_writable()

```
bool Gnome::Conf::Client::key_is_writable (
    const Glib::ustring & p1 ) const
```

Determine whether a given configuration key is writeable by the application.

##### Returns

true if the key is writeable.

##### Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

#### 8.2.4.32 notify()

```
void Gnome::Conf::Client::notify (
    const Glib::ustring & key )
```

Emits the value\_changed signal and notifies listeners as if key had been changed.

##### Parameters

key	The key that has changed.
-----	---------------------------

@newin2p24

### 8.2.4.33 `notify_add()`

```
guint Gnome::Conf::Client::notify_add (
    const Glib::ustring & namespace_section,
    Callback callback )
```

Request notification of changes to `namespace_section`.

This includes the key `namespace_section` itself, and any keys below it. For the notification to happen, `namespace_section` must be equal to or below one of the directories added with `add_dir()`. You can still call `notify_add()` for other directories, but no notification will be received until you add a directory above or equal to `namespace_section`. One implication of this is that `remove_dir()` temporarily disables notifications that were below the removed directory.

The callback will be called with the key that changed and the [Entry](#) that holds the new [Value](#). If the [Value](#) has a type of `VALUE_INVALID`, then the key has been unset.

The function returns a connection ID you can use when calling `notify_remove()`.

#### Parameters

<code>namespace_section</code>	the namespace section for which notification is required.
<code>callback</code>	the sigc::slot to call when the a key under <code>namespace_section</code> changes.

#### Returns

a connection id that can be passed to `notify_remove()` to cancel the notification request.

### 8.2.4.34 `notify_remove()`

```
void Gnome::Conf::Client::notify_remove (
    guint cnxn )
```

Cancel a notification request.

#### Parameters

<code>cnxn</code>	a connection id, previously returned by <code>notify_add()</code>
-------------------	---

#### See also

[notify\\_add\(\)](#)

### 8.2.4.35 `on_error()`

```
virtual void Gnome::Conf::Client::on_error (
    const Glib::Error & error ) [protected], [virtual]
```

#### 8.2.4.36 on\_unreturned\_error()

```
virtual void Gnome::Conf::Client::on_unreturned_error (
    const Glib::Error & error ) [protected], [virtual]
```

#### 8.2.4.37 on\_value\_changed()

```
virtual void Gnome::Conf::Client::on_value_changed (
    const Glib::ustring & key,
    const Value & value ) [protected], [virtual]
```

#### 8.2.4.38 preload()

```
void Gnome::Conf::Client::preload (
    const Glib::ustring & dirname,
    ClientPreloadType type )
```

Preloads a directory.

Normally this happens automatically with [add\\_dir\(\)](#), but if you've called [clear\\_cache\(\)](#) you may need to do it again.

See also

[add\\_dir\(\)](#)

#### 8.2.4.39 recursive\_unset()

```
void Gnome::Conf::Client::recursive_unset (
    const Glib::ustring & key,
    UnsetFlags flags = UNSET_INCLUDING_SCHEMA_NAMES )
```

Unsets all keys below *key*, including *key* itself.

If any unset fails, it continues on to unset as much as it can. The first failure is then thrown as an exception.

##### Parameters

<i>key</i>	The configuration key to unset.
<i>flags</i>	Change how the unset is done.

##### Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

@newin2p24

#### 8.2.4.40 remove\_dir()

```
void Gnome::Conf::Client::remove_dir (
    const Glib::ustring & dir )
```

Remove a directory from the list of directories the [Client](#) will watch.

See also

[add\\_dir\(\)](#)

#### 8.2.4.41 set() [1/6]

```
void Gnome::Conf::Client::set (
    const Glib::ustring & key,
    bool what ) [virtual]
```

Set the given configuration key to the specified boolean value.

Set the given configuration key to the specified integer value.

Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

ifile "/builddir/build/BUILD/gconfmm-2.28.3/gconf/gconfmm/client.h"

Implements [Gnome::Conf::SetInterface](#).

#### 8.2.4.42 set() [2/6]

```
void Gnome::Conf::Client::set (
    const Glib::ustring & key,
    const Glib::ustring & what ) [virtual]
```

Set the given configuration key to the specified string.

Set the given configuration key to the specified integer value.



## Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

ifile "/builddir/build/BUILD/gconfmm-2.28.3/gconf/gconfmm/client.h"

Implements [Gnome::Conf::SetInterface](#).

**8.2.4.43 set()** [3/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    const Schema & what ) [virtual]
```

Set the given configuration key to the specified [Schema](#).

Set the given configuration key to the specified integer value.

## Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

ifile "/builddir/build/BUILD/gconfmm-2.28.3/gconf/gconfmm/client.h"

Implements [Gnome::Conf::SetInterface](#).

**8.2.4.44 set()** [4/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    const Value & what ) [virtual]
```

Set the given configuration key to the specified [Value](#).

Set the given configuration key to the specified integer value.

## Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

ifile "/builddir/build/BUILD/gconfmm-2.28.3/gconf/gconfmm/client.h"

Implements [Gnome::Conf::SetInterface](#).

**8.2.4.45 set()** [5/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    double what ) [virtual]
```

Set the given configuration key to the specified double value.

Set the given configuration key to the specified integer value.

## Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

ifile "/builddir/build/BUILD/gconfmm-2.28.3/gconf/gconfmm/client.h"

Implements [Gnome::Conf::SetInterface](#).

**8.2.4.46 set()** [6/6]

```
void Gnome::Conf::Client::set (  
    const Glib::ustring & key,  
    int what ) [virtual]
```

Set the given configuration key to the specified integer value.

## Parameters

<i>key</i>	the configuration key to set.
<i>what</i>	the value to set it to.

## Exceptions

<a href="#">Gnome::Conf::Error</a>	
------------------------------------	--

Implements [Gnome::Conf::SetInterface](#).

**8.2.4.47 set\_bool\_list()**

```
void Gnome::Conf::Client::set_bool_list (
    const Glib::ustring & key,
    const SListHandleBools & what )
```

**8.2.4.48 set\_error\_handling()**

```
void Gnome::Conf::Client::set_error_handling (
    ClientErrorHandlingMode mode )
```

**8.2.4.49 set\_float\_list()**

```
void Gnome::Conf::Client::set_float_list (
    const Glib::ustring & key,
    const SListHandleFloats & what )
```

**8.2.4.50 set\_int\_list()**

```
void Gnome::Conf::Client::set_int_list (
    const Glib::ustring & key,
    const SListHandleInts & what )
```

#### 8.2.4.51 set\_schema\_list()

```
void Gnome::Conf::Client::set_schema_list (
    const Glib::ustring & key,
    const Glib::SListHandle< Schema > & what )
```

#### 8.2.4.52 set\_string\_list()

```
void Gnome::Conf::Client::set_string_list (
    const Glib::ustring & key,
    const Glib::SListHandle< Glib::ustring > & what )
```

#### 8.2.4.53 signal\_error()

```
Glib::SignalProxy1< void, const Glib::Error & > Gnome::Conf::Client::signal_error ( )
```

A signal emitted when an error occurs.

This signal will be emitted when an error occurs, right before the throw() of the error.

**Prototype:**

```
void on_my_error(const Glib::Error& error)
```

#### 8.2.4.54 signal\_value\_changed()

```
Glib::SignalProxy2< void, const Glib::ustring &, const Value & > Gnome::Conf::Client::signal←
_value_changed ( )
```

A signal emitted when a value changes.

This signal will only be called for directories added with [add\\_dir\(\)](#).

**Prototype:**

```
void on_my_value_changed(const Glib::ustring& key, const Value& value)
```

#### 8.2.4.55 suggest\_sync()

```
void Gnome::Conf::Client::suggest_sync ( )
```

Suggest to the GConf server that a sync of cached data to stable storage would be appropriate now.

## Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.56 unset()**

```
void Gnome::Conf::Client::unset (
    const Glib::ustring & key )
```

Unset a configuration key.

## Parameters

<i>key</i>	the configuration key to unset.
------------	---------------------------------

## Exceptions

<i>Gnome::Conf::Error.</i>	
----------------------------	--

**8.2.4.57 value\_changed()**

```
void Gnome::Conf::Client::value_changed (
    const Glib::ustring & key,
    const Value & value )
```

**8.2.5 Friends And Related Function Documentation****8.2.5.1 wrap()**

```
Glib::RefPtr< Gnome::Conf::Client > wrap (
    GConfClient * object,
    bool take_copy = false ) [related]
```

A Glib::wrap() method for this object.

## Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

**Returns**

A C++ instance that wraps this C instance.

The documentation for this class was generated from the following file:

- gconfmm/client.h

## 8.3 Gnome::Conf::Entry Class Reference

An [Entry](#) stores an entry from a GConf "directory", including a key-value pair, the name of the [Schema](#) applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key.

```
#include <gconfmm/entry.h>
```

Collaboration diagram for Gnome::Conf::Entry:

### Public Member Functions

- [Entry](#) ()
- [Entry](#) (GConfEntry \*castitem, bool make\_a\_copy=false)
- [Entry](#) (const [Entry](#) &src)
- [Entry](#) & [operator=](#) (const [Entry](#) &src)
- [~Entry](#) ()
- GConfEntry \* [gobj](#) ()
- const GConfEntry \* [gobj](#) () const
- GConfEntry \* [gobj\\_copy](#) () const
- *Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.*
- [Entry](#) (const Glib::ustring &key, const [Value](#) &value)
- *Construct an [Entry](#) with the given key and value.*
- void [set\\_value](#) (const [Value](#) &val)
- *Set the [Value](#) of the entry.*
- void [set\\_schema\\_name](#) (const Glib::ustring &val)
- *Set the [Schema](#) name of the entry.*
- void [set\\_is\\_default](#) (bool is\_default=true)
- *Set whether the value has originated from the default given in the [Schema](#).*
- void [set\\_is\\_writable](#) (bool is\_writable=true)
- *Set whether the given configuration key is writeable.*
- [Value](#) [get\\_value](#) () const
- *Retrieve the value of the entry.*
- Glib::ustring [get\\_schema\\_name](#) () const
- *Retrieve the [Schema](#) name associated with the given entry.*
- Glib::ustring [get\\_key](#) () const
- bool [get\\_is\\_default](#) () const
- bool [get\\_is\\_writable](#) () const

### Protected Attributes

- GConfEntry \* [gobject\\_](#)

## Related Functions

(Note that these are not member functions.)

- [Gnome::Conf::Entry wrap](#) (GConfEntry \*object, bool take\_copy=false)  
*A Glib::wrap() method for this object.*

### 8.3.1 Detailed Description

An [Entry](#) stores an entry from a GConf "directory", including a key-value pair, the name of the [Schema](#) applicable to this entry, whether the value is a default value, and whether GConf can write a new value at this key.

The key should be an absolute key, not a relative key.

### 8.3.2 Constructor & Destructor Documentation

#### 8.3.2.1 Entry() [1/4]

```
Gnome::Conf::Entry::Entry ( )
```

#### 8.3.2.2 Entry() [2/4]

```
Gnome::Conf::Entry::Entry (
    GConfEntry * castitem,
    bool make_a_copy = false ) [explicit]
```

#### 8.3.2.3 Entry() [3/4]

```
Gnome::Conf::Entry::Entry (
    const Entry & src )
```

#### 8.3.2.4 ~Entry()

```
Gnome::Conf::Entry::~Entry ( )
```

### 8.3.2.5 Entry() [4/4]

```
Gnome::Conf::Entry::Entry (
    const Glib::ustring & key,
    const Value & value )
```

Construct an [Entry](#) with the given key and value.

## 8.3.3 Member Function Documentation

### 8.3.3.1 get\_is\_default()

```
bool Gnome::Conf::Entry::get_is_default ( ) const
```

### 8.3.3.2 get\_is\_writable()

```
bool Gnome::Conf::Entry::get_is_writable ( ) const
```

### 8.3.3.3 get\_key()

```
Glib::ustring Gnome::Conf::Entry::get_key ( ) const
```

### 8.3.3.4 get\_schema\_name()

```
Glib::ustring Gnome::Conf::Entry::get_schema_name ( ) const
```

Retrieve the [Schema](#) name associated with the given entry.

### 8.3.3.5 get\_value()

```
Value Gnome::Conf::Entry::get_value ( ) const
```

Retrieve the value of the entry.

#### Returns

a copy the entry's value.



### 8.3.3.6 gobj() [1/2]

```
GConfEntry * Gnome::Conf::Entry::gobj ( ) [inline]
```

### 8.3.3.7 gobj() [2/2]

```
const GConfEntry * Gnome::Conf::Entry::gobj ( ) const [inline]
```

### 8.3.3.8 gobj\_copy()

```
GConfEntry * Gnome::Conf::Entry::gobj_copy ( ) const
```

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

### 8.3.3.9 operator=()

```
Entry & Gnome::Conf::Entry::operator= (
    const Entry & src )
```

### 8.3.3.10 set\_is\_default()

```
void Gnome::Conf::Entry::set_is_default (
    bool is_default = true )
```

Set whether the value has originated from the default given in the [Schema](#).

### 8.3.3.11 set\_is\_writable()

```
void Gnome::Conf::Entry::set_is_writable (
    bool is_writable = true )
```

Set whether the given configuration key is writeable.

#### 8.3.3.12 set\_schema\_name()

```
void Gnome::Conf::Entry::set_schema_name (
    const Glib::ustring & val )
```

Set the [Schema](#) name of the entry.

#### 8.3.3.13 set\_value()

```
void Gnome::Conf::Entry::set_value (
    const Value & val )
```

Set the [Value](#) of the entry.

### 8.3.4 Friends And Related Function Documentation

#### 8.3.4.1 wrap()

```
Gnome::Conf::Entry wrap (
    GConfEntry * object,
    bool take_copy = false ) [related]
```

A Glib::wrap() method for this object.

##### Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

##### Returns

A C++ instance that wraps this C instance.

### 8.3.5 Member Data Documentation

#### 8.3.5.1 gobject\_

```
GConfEntry* Gnome::Conf::Entry::gobject_ [protected]
```

The documentation for this class was generated from the following file:

- gconfmm/entry.h

## 8.4 Gnome::Conf::Error Class Reference

Exception class for [Gnome::Conf::Client](#) errors.

```
#include <gconfmm/client.h>
```

Inheritance diagram for Gnome::Conf::Error:

Collaboration diagram for Gnome::Conf::Error:

### Public Types

- enum [Code](#) {  
    [SUCCESS](#) = 0 ,  
    [NO\\_SERVER](#) = 2 ,  
    [NO\\_PERMISSION](#) = 3 ,  
    [BAD\\_ADDRESS](#) = 4 ,  
    [PARSE\\_ERROR](#) = 6 ,  
    [CORRUPT](#) = 7 ,  
    [TYPE\\_MISMATCH](#) = 8 ,  
    [IS\\_DIR](#) = 9 ,  
    [IS\\_KEY](#) = 10 ,  
    [OVERRIDDEN](#) = 11 ,  
    [OAF\\_ERROR](#) = 12 ,  
    [LOCAL\\_ENGINE](#) = 13 ,  
    [LOCK\\_FAILED](#) = 14 ,  
    [NO\\_WRITABLE\\_DATABASE](#) = 15 ,  
    [IN\\_SHUTDOWN](#) = 16 }

### Public Member Functions

- [Error](#) ([Code](#) error\_code, const Glib::ustring &error\_message)
- [Error](#) (GError \*gobject)
- [Code](#) code () const

#### 8.4.1 Detailed Description

Exception class for [Gnome::Conf::Client](#) errors.

#### 8.4.2 Member Enumeration Documentation

##### 8.4.2.1 Code

```
enum Gnome::Conf::Error::Code
```

## Enumerator

SUCCESS	
NO_SERVER	
NO_PERMISSION	
BAD_ADDRESS	
PARSE_ERROR	
CORRUPT	
TYPE_MISMATCH	
IS_DIR	
IS_KEY	
OVERRIDDEN	
OAF_ERROR	
LOCAL_ENGINE	
LOCK_FAILED	
NO_WRITABLE_DATABASE	
IN_SHUTDOWN	

### 8.4.3 Constructor & Destructor Documentation

#### 8.4.3.1 Error() [1/2]

```
Gnome::Conf::Error::Error (
    Code error_code,
    const Glib::ustring & error_message )
```

#### 8.4.3.2 Error() [2/2]

```
Gnome::Conf::Error::Error (
    GError * gobject ) [explicit]
```

### 8.4.4 Member Function Documentation

#### 8.4.4.1 code()

```
Code Gnome::Conf::Error::code ( ) const
```

The documentation for this class was generated from the following file:

- gconfmm/client.h

## 8.5 Gnome::Conf::Schema Class Reference

```
#include <gconfmm/schema.h>
```

Collaboration diagram for Gnome::Conf::Schema:

### Public Member Functions

- [Schema](#) ()
- [Schema](#) (GConfSchema \*castitem, bool make\_a\_copy=false)
- [Schema](#) (const [Schema](#) &src)
- [Schema](#) & [operator=](#) (const [Schema](#) &src)
- [~Schema](#) ()
- GConfSchema \* [gobj](#) ()
- const GConfSchema \* [gobj](#) () const
- GConfSchema \* [gobj\\_copy](#) () const

*Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.*

- void [set\\_type](#) (ValueType type)
- void [set\\_list\\_type](#) (ValueType type)
- void [set\\_car\\_type](#) (ValueType type)
- void [set\\_cdr\\_type](#) (ValueType type)
- void [set\\_locale](#) (const **std::string** &locale)
- void [set\\_short\\_desc](#) (const Glib::ustring &desc)
- void [set\\_long\\_desc](#) (const Glib::ustring &desc)
- void [set\\_owner](#) (const Glib::ustring &owner)
- void [set\\_default\\_value](#) (const [Value](#) &value)
- [ValueType](#) [get\\_type](#) () const
- [ValueType](#) [get\\_list\\_type](#) () const
- [ValueType](#) [get\\_car\\_type](#) () const
- [ValueType](#) [get\\_cdr\\_type](#) () const
- **std::string** [get\\_locale](#) () const
- Glib::ustring [get\\_short\\_desc](#) () const
- Glib::ustring [get\\_long\\_desc](#) () const
- Glib::ustring [get\\_owner](#) () const
- [Value](#) [get\\_default\\_value](#) () const

### Protected Attributes

- GConfSchema \* [gobject\\_](#)

### Related Functions

(Note that these are not member functions.)

- [Gnome::Conf::Schema wrap](#) (GConfSchema \*object, bool take\_copy=false)

*A Glib::wrap() method for this object.*

## 8.5.1 Constructor & Destructor Documentation

### 8.5.1.1 Schema() [1/3]

```
Gnome::Conf::Schema::Schema ( )
```

### 8.5.1.2 Schema() [2/3]

```
Gnome::Conf::Schema::Schema (
    GConfSchema * castitem,
    bool make_a_copy = false ) [explicit]
```

### 8.5.1.3 Schema() [3/3]

```
Gnome::Conf::Schema::Schema (
    const Schema & src )
```

### 8.5.1.4 ~Schema()

```
Gnome::Conf::Schema::~~Schema ( )
```

## 8.5.2 Member Function Documentation

### 8.5.2.1 get\_car\_type()

```
ValueType Gnome::Conf::Schema::get_car_type ( ) const
```

### 8.5.2.2 get\_cdr\_type()

```
ValueType Gnome::Conf::Schema::get_cdr_type ( ) const
```

### 8.5.2.3 get\_default\_value()

`Value` Gnome::Conf::Schema::get\_default\_value ( ) const

### 8.5.2.4 get\_list\_type()

`ValueType` Gnome::Conf::Schema::get\_list\_type ( ) const

### 8.5.2.5 get\_locale()

`std::string` Gnome::Conf::Schema::get\_locale ( ) const

### 8.5.2.6 get\_long\_desc()

`Glib::ustring` Gnome::Conf::Schema::get\_long\_desc ( ) const

### 8.5.2.7 get\_owner()

`Glib::ustring` Gnome::Conf::Schema::get\_owner ( ) const

### 8.5.2.8 get\_short\_desc()

`Glib::ustring` Gnome::Conf::Schema::get\_short\_desc ( ) const

### 8.5.2.9 get\_type()

`ValueType` Gnome::Conf::Schema::get\_type ( ) const

### 8.5.2.10 gobj() [1/2]

`GConfSchema *` Gnome::Conf::Schema::gobj ( ) [inline]

#### 8.5.2.11 gobj() [2/2]

```
const GConfSchema * Gnome::Conf::Schema::gobj ( ) const [inline]
```

#### 8.5.2.12 gobj\_copy()

```
GConfSchema * Gnome::Conf::Schema::gobj_copy ( ) const
```

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

#### 8.5.2.13 operator=()

```
Schema & Gnome::Conf::Schema::operator= (
    const Schema & src )
```

#### 8.5.2.14 set\_car\_type()

```
void Gnome::Conf::Schema::set_car_type (
    ValueType type )
```

#### 8.5.2.15 set\_cdr\_type()

```
void Gnome::Conf::Schema::set_cdr_type (
    ValueType type )
```

#### 8.5.2.16 set\_default\_value()

```
void Gnome::Conf::Schema::set_default_value (
    const Value & value )
```

#### 8.5.2.17 set\_list\_type()

```
void Gnome::Conf::Schema::set_list_type (
    ValueType type )
```



#### 8.5.2.18 set\_locale()

```
void Gnome::Conf::Schema::set_locale (
    const std::string & locale )
```

#### 8.5.2.19 set\_long\_desc()

```
void Gnome::Conf::Schema::set_long_desc (
    const Glib::ustring & desc )
```

#### 8.5.2.20 set\_owner()

```
void Gnome::Conf::Schema::set_owner (
    const Glib::ustring & owner )
```

#### 8.5.2.21 set\_short\_desc()

```
void Gnome::Conf::Schema::set_short_desc (
    const Glib::ustring & desc )
```

#### 8.5.2.22 set\_type()

```
void Gnome::Conf::Schema::set_type (
    ValueType type )
```

### 8.5.3 Friends And Related Function Documentation

#### 8.5.3.1 wrap()

```
Gnome::Conf::Schema wrap (
    GConfSchema * object,
    bool take_copy = false ) [related]
```

A Glib::wrap() method for this object.

## Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

## Returns

A C++ instance that wraps this C instance.

## 8.5.4 Member Data Documentation

### 8.5.4.1 gobject\_

```
GConfSchema* Gnome::Conf::Schema::gobject_ [protected]
```

The documentation for this class was generated from the following file:

- gconfmm/schema.h

## 8.6 Gnome::Conf::SetInterface Class Reference

Common Interface for key-value settable objects.

```
#include <gconfmm/setinterface.h>
```

Inheritance diagram for Gnome::Conf::SetInterface:

### Public Member Functions

- virtual void [set](#) (const Glib::ustring &key, const [Value](#) &value)=0
- virtual void [set](#) (const Glib::ustring &key, bool what)=0
- virtual void [set](#) (const Glib::ustring &key, int what)=0
- virtual void [set](#) (const Glib::ustring &key, double what)=0
- virtual void [set](#) (const Glib::ustring &key, const Glib::ustring &what)=0
- virtual void [set](#) (const Glib::ustring &key, const [Schema](#) &what)=0
- void [set](#) (const Glib::ustring &key, const [ValuePair](#) &pair)
- void [set\\_int\\_list](#) (const Glib::ustring &key, const SListHandle\_ValueInt &list)
- void [set\\_bool\\_list](#) (const Glib::ustring &key, const SListHandle\_ValueBool &list)
- void [set\\_float\\_list](#) (const Glib::ustring &key, const SListHandle\_ValueFloat &list)
- void [set\\_string\\_list](#) (const Glib::ustring &key, const SListHandle\_ValueString &list)
- void [set\\_schema\\_list](#) (const Glib::ustring &key, const SListHandle\_ValueSchema &list)

### 8.6.1 Detailed Description

Common Interface for key-value settable objects.

This class defines a common interface for GConfrm objects that implement the set() methods for configuration keys. It also provides the implementations for the set\_\*\_list() family of methods.

The only classes that support this interface are [Client](#) and [ChangeSet](#).

The set\_\*\_list() methods take as a parameter any STL-compatible container that has the appropriate value\_type.

### 8.6.2 Member Function Documentation

#### 8.6.2.1 set() [1/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    bool what ) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

#### 8.6.2.2 set() [2/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    const Glib::ustring & what ) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

#### 8.6.2.3 set() [3/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    const Schema & what ) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

#### 8.6.2.4 `set()` [4/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    const Value & value ) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

#### 8.6.2.5 `set()` [5/7]

```
void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    const ValuePair & pair )
```

#### 8.6.2.6 `set()` [6/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    double what ) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

#### 8.6.2.7 `set()` [7/7]

```
virtual void Gnome::Conf::SetInterface::set (
    const Glib::ustring & key,
    int what ) [pure virtual]
```

Implemented in [Gnome::Conf::ChangeSet](#), and [Gnome::Conf::Client](#).

#### 8.6.2.8 `set_bool_list()`

```
void Gnome::Conf::SetInterface::set_bool_list (
    const Glib::ustring & key,
    const SListHandle_ValueBool & list )
```

### 8.6.2.9 set\_float\_list()

```
void Gnome::Conf::SetInterface::set_float_list (
    const Glib::ustring & key,
    const SListHandle_ValueFloat & list )
```

### 8.6.2.10 set\_int\_list()

```
void Gnome::Conf::SetInterface::set_int_list (
    const Glib::ustring & key,
    const SListHandle_ValueInt & list )
```

### 8.6.2.11 set\_schema\_list()

```
void Gnome::Conf::SetInterface::set_schema_list (
    const Glib::ustring & key,
    const SListHandle_ValueSchema & list )
```

### 8.6.2.12 set\_string\_list()

```
void Gnome::Conf::SetInterface::set_string_list (
    const Glib::ustring & key,
    const SListHandle_ValueString & list )
```

The documentation for this class was generated from the following file:

- gconfmm/setinterface.h

## 8.7 Gnome::Conf::Value Class Reference

Wrapper for primitive types.

```
#include <gconfmm/value.h>
```

Collaboration diagram for Gnome::Conf::Value:

## Public Member Functions

- [Value](#) (GConfValue \*castitem, bool make\_a\_copy=false)
- [Value](#) (const [Value](#) &src)
- [Value](#) & [operator=](#) (const [Value](#) &src)
- [~Value](#) ()
- GConfValue \* [gobj](#) ()
- const GConfValue \* [gobj](#) () const
- GConfValue \* [gobj\\_copy](#) () const
 

*Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.*
- [Value](#) (ValueType type=VALUE\_INVALID)
 

*Create a [Value](#).*
- void [set](#) (gint val)
 

*Set the integer value of a [Value](#) whose type is VALUE\_INT.*
- void [set](#) (gdouble val)
 

*Set the float value of a [Value](#) whose type is VALUE\_FLOAT.*
- void [set](#) (bool val)
 

*Set the boolean value of a [Value](#) whose type is VALUE\_BOOL.*
- void [set](#) (const [Schema](#) &sc)
 

*Set the [Schema](#) of a [Value](#) whose type is VALUE\_SCHEMA.*
- void [set\\_car](#) (const [Value](#) &car)
 

*Set the car (in a pair, the first element) of a [Value](#) whose type is VALUE\_PAIR.*
- void [set\\_cdr](#) (const [Value](#) &cdr)
 

*Set the cdr (in a pair, the second element) of a [Value](#) whose type is VALUE\_PAIR.*
- void [set](#) (const Glib::ustring &val)
 

*Set the string of a [Value](#) whose type is VALUE\_STRING.*
- void [set\\_list\\_type](#) (ValueType type)
 

*Sets the type of the elements of a [Value](#) with type VALUE\_LIST.*
- void [set\\_int\\_list](#) (const SListHandle\_ValueInt &list)
 

*Sets the [Value](#) to contain a list of integers.*
- void [set\\_bool\\_list](#) (const SListHandle\_ValueBool &list)
 

*Sets the [Value](#) to contain a list of booleans.*
- void [set\\_float\\_list](#) (const SListHandle\_ValueFloat &list)
 

*Sets the [Value](#) to contain a list of doubles.*
- void [set\\_string\\_list](#) (const SListHandle\_ValueString &list)
 

*Sets the [Value](#) to contain a list of strings.*
- void [set\\_schema\\_list](#) (const SListHandle\_ValueSchema &list)
 

*Sets the [Value](#) to contain a list of [Schema](#).*
- ValueType [get\\_type](#) () const
 

*Get the type of the [Value](#).*
- ValueType [get\\_list\\_type](#) () const
 

*Get the type of the list elements of the [Value](#).*
- int [get\\_int](#) () const
 

*Get the integer that the [Value](#) contains.*
- bool [get\\_bool](#) () const
 

*Get the boolean that the [Value](#) contains.*
- double [get\\_float](#) () const
 

*Get the double that the [Value](#) contains.*
- Glib::ustring [get\\_string](#) () const
 

*Get the string that the [Value](#) contains.*
- [Schema](#) [get\\_schema](#) () const

- Get a copy of the [Schema](#) of the value.

  - [Value get\\_car](#) () const

Get a copy of the car of a [VALUE\\_PAIR Value](#).
- [Value get\\_cdr](#) () const

Get a copy of the cdr of a [VALUE\\_PAIR Value](#).
- [SListHandle\\_ValueFloat get\\_float\\_list](#) () const

Gets a list of doubles from the [Value](#).
- [SListHandle\\_ValueInt get\\_int\\_list](#) () const

Retrieves the list of integers from the [Value](#).
- [SListHandle\\_ValueBool get\\_bool\\_list](#) () const

Retrieves the list of booleans from the [Value](#).
- [SListHandle\\_ValueString get\\_string\\_list](#) () const

Retrieves the list of strings from the [Value](#).
- [SListHandle\\_ValueSchema get\\_schema\\_list](#) () const

Retrieves the list of Schemas from the [Value](#).
- [Glib::ustring to\\_string](#) () const

Convert the [Value](#) to a string.

## Protected Attributes

- [GConfValue \\* gobject\\_](#)

## Related Functions

(Note that these are not member functions.)

- [Gnome::Conf::Value wrap](#) ([GConfValue \\*object](#), [bool take\\_copy=false](#))
- A [Glib::wrap\(\)](#) method for this object.

### 8.7.1 Detailed Description

Wrapper for primitive types.

This class wraps the primitive types that are passed to and from instances of [Gnome::Conf::Client](#). It has an associated [ValueType](#), which is specified at creation time, but can be changed with assignment. If the type is [VALUE\\_INVALID](#) then the effect of the set and get methods is undefined. Using a default-constructed [Value](#) without using any of the set methods produces undefined behaviour.

Compound Values of type [VALUE\\_PAIR](#) and [VALUE\\_LIST](#) can only have elements whose types are neither [VALUE\\_PAIR](#) or [VALUE\\_LIST](#) - they can only have primitive types.

The [Value](#) class has copy-by-value semantics - all arguments to the set methods are copied.

Note that while the type is named [VALUE\\_FLOAT](#), the accessors for floating-point values use `double`, not `float`, to preserve accuracy.

### 8.7.2 Constructor & Destructor Documentation

**8.7.2.1 Value() [1/3]**

```
Gnome::Conf::Value::Value (
    GConfValue * castitem,
    bool make_a_copy = false ) [explicit]
```

**8.7.2.2 Value() [2/3]**

```
Gnome::Conf::Value::Value (
    const Value & src )
```

**8.7.2.3 ~Value()**

```
Gnome::Conf::Value::~~Value ( )
```

**8.7.2.4 Value() [3/3]**

```
Gnome::Conf::Value::Value (
    ValueType type = VALUE_INVALID )
```

Create a [Value](#).

You should call a `set()` method before using the [Value](#).

**Parameters**

<i>type</i>	The type of the produced value.
-------------	---------------------------------

**8.7.3 Member Function Documentation****8.7.3.1 get\_bool()**

```
bool Gnome::Conf::Value::get_bool ( ) const
```

Get the boolean that the [Value](#) contains.



### 8.7.3.2 get\_bool\_list()

```
SListHandle_ValueBool Gnome::Conf::Value::get_bool_list ( ) const
```

Retrieves the list of booleans from the [Value](#).

See also

[get\\_float\\_list](#)

### 8.7.3.3 get\_car()

```
Value Gnome::Conf::Value::get_car ( ) const
```

Get a copy of the car of a VALUE\_PAIR [Value](#).

### 8.7.3.4 get\_cdr()

```
Value Gnome::Conf::Value::get_cdr ( ) const
```

Get a copy of the cdr of a VALUE\_PAIR [Value](#).

### 8.7.3.5 get\_float()

```
double Gnome::Conf::Value::get_float ( ) const
```

Get the double that the [Value](#) contains.

### 8.7.3.6 get\_float\_list()

```
SListHandle_ValueFloat Gnome::Conf::Value::get_float_list ( ) const
```

Gets a list of doubles from the [Value](#).

Typical usage is

```
std::vector<double> foo = value.get_float_list();
```

.

Returns

: an STL-compatible container with doubles as its value type. Assign to an **std::vector**, list or deque for proper use.

#### 8.7.3.7 `get_int()`

```
int Gnome::Conf::Value::get_int ( ) const
```

Get the integer that the [Value](#) contains.

#### 8.7.3.8 `get_int_list()`

```
SListHandle_ValueInt Gnome::Conf::Value::get_int_list ( ) const
```

Retrieves the list of integers from the [Value](#).

See also

[get\\_float\\_list](#)

#### 8.7.3.9 `get_list_type()`

```
ValueType Gnome::Conf::Value::get_list_type ( ) const
```

Get the type of the list elements of the [Value](#).

Do not call this method on non-list Values.

Returns

the type of the list elements.

#### 8.7.3.10 `get_schema()`

```
Schema Gnome::Conf::Value::get_schema ( ) const
```

Get a copy of the [Schema](#) of the value.

#### 8.7.3.11 `get_schema_list()`

```
SListHandle_ValueSchema Gnome::Conf::Value::get_schema_list ( ) const
```

Retrieves the list of Schemas from the [Value](#).

@See [get\\_float\\_list](#)

#### 8.7.3.12 get\_string()

```
Glib::ustring Gnome::Conf::Value::get_string ( ) const
```

Get the string that the [Value](#) contains.

#### 8.7.3.13 get\_string\_list()

```
SListHandle_ValueString Gnome::Conf::Value::get_string_list ( ) const
```

Retrieves the list of strings from the [Value](#).

See also

[get\\_float\\_list](#)

#### 8.7.3.14 get\_type()

```
ValueType Gnome::Conf::Value::get_type ( ) const
```

Get the type of the [Value](#).

Returns

the type of the [Value](#)

#### 8.7.3.15 gobj() [1/2]

```
GConfValue * Gnome::Conf::Value::gobj ( ) [inline]
```

#### 8.7.3.16 gobj() [2/2]

```
const GConfValue * Gnome::Conf::Value::gobj ( ) const [inline]
```

#### 8.7.3.17 gobj\_copy()

```
GConfValue * Gnome::Conf::Value::gobj_copy ( ) const
```

Provides access to the underlying C instance. The caller is responsible for freeing it. Use when directly setting fields in structs.

#### 8.7.3.18 operator=()

```
Value & Gnome::Conf::Value::operator= (
    const Value & src )
```

#### 8.7.3.19 set() [1/5]

```
void Gnome::Conf::Value::set (
    bool val )
```

Set the boolean value of a [Value](#) whose type is VALUE\_BOOL.

#### 8.7.3.20 set() [2/5]

```
void Gnome::Conf::Value::set (
    const Glib::ustring & val )
```

Set the string of a [Value](#) whose type is VALUE\_STRING.

#### 8.7.3.21 set() [3/5]

```
void Gnome::Conf::Value::set (
    const Schema & sc )
```

Set the [Schema](#) of a [Value](#) whose type is VALUE\_SCHEMA.

#### 8.7.3.22 set() [4/5]

```
void Gnome::Conf::Value::set (
    gdouble val )
```

Set the float value of a [Value](#) whose type is VALUE\_FLOAT.

## Parameters

<i>val</i>	the double this <a href="#">Value</a> will be se to.
------------	--

**8.7.3.23 set()** [5/5]

```
void Gnome::Conf::Value::set (
    gint val )
```

Set the integer value of a [Value](#) whose type is VALUE\_INT.

**8.7.3.24 set\_bool\_list()**

```
void Gnome::Conf::Value::set_bool_list (
    const SListHandle_ValueBool & list )
```

Sets the [Value](#) to contain a list of bools.

## See also

[set\\_int\\_list](#)

**8.7.3.25 set\_car()**

```
void Gnome::Conf::Value::set_car (
    const Value & car )
```

Set the car (in a pair, the first element) of a [Value](#) whose type is VALUE\_PAIR.

**8.7.3.26 set\_cdr()**

```
void Gnome::Conf::Value::set_cdr (
    const Value & cdr )
```

Set the cdr (in a pair, the second element) of a [Value](#) whose type is VALUE\_PAIR.

#### 8.7.3.27 set\_float\_list()

```
void Gnome::Conf::Value::set_float_list (
    const SListHandle_ValueFloat & list )
```

Sets the [Value](#) to contain a list of doubles.

See also

[set\\_int\\_list](#)

#### 8.7.3.28 set\_int\_list()

```
void Gnome::Conf::Value::set_int_list (
    const SListHandle_ValueInt & list )
```

Sets the [Value](#) to contain a list of integers.

`set_list_type(VALUE_INT)` must have been called prior this call.

Parameters

<i>list</i>	an STL-compatible container whose <code>value_type</code> is <code>int</code>
-------------	---

#### 8.7.3.29 set\_list\_type()

```
void Gnome::Conf::Value::set_list_type (
    ValueType type )
```

Sets the type of the elements of a [Value](#) with type `VALUE_LIST`.

#### 8.7.3.30 set\_schema\_list()

```
void Gnome::Conf::Value::set_schema_list (
    const SListHandle_ValueSchema & list )
```

Sets the [Value](#) to contain a list of [Schema](#).

See also

[set\\_int\\_list](#)

### 8.7.3.31 set\_string\_list()

```
void Gnome::Conf::Value::set_string_list (
    const SListHandle_ValueString & list )
```

Sets the [Value](#) to contain a list of strings.

See also

[set\\_int\\_list](#)

### 8.7.3.32 to\_string()

```
Glib::ustring Gnome::Conf::Value::to_string ( ) const
```

Convert the [Value](#) to a string.

The string is not machine-parseable. Do not depend on the format of the string.

## 8.7.4 Friends And Related Function Documentation

### 8.7.4.1 wrap()

```
Gnome::Conf::Value wrap (
    GConfValue * object,
    bool take_copy = false ) [related]
```

A Glib::wrap() method for this object.

#### Parameters

<i>object</i>	The C instance.
<i>take_copy</i>	False if the result should take ownership of the C instance. True if it should take a new copy or ref.

#### Returns

A C++ instance that wraps this C instance.

## 8.7.5 Member Data Documentation

### 8.7.5.1 gobject\_

GConfValue\* Gnome::Conf::Value::gobject\_ [protected]

The documentation for this class was generated from the following file:

- gconfmm/value.h



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