

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

# Topic Index

### 2.1 Topics

Here is a list of all topics with brief descriptions:

|                                   |                    |
|-----------------------------------|--------------------|
| gconfmm Enums and Flags . . . . . | <a href="#">11</a> |
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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="#">Glib</a>        | ..... | <a href="#">15</a> |
| <a href="#">Gnome</a>       | ..... | <a href="#">15</a> |
| <a href="#">Gnome::Conf</a> | ..... | <a href="#">15</a> |



## Chapter 4

# Hierarchical Index

### 4.1 Class Hierarchy

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

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| Gnome::Conf::Error . . . . .                       | <a href="#">47</a> |
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| Gnome::Conf::Client . . . . .                      | <a href="#">22</a> |
| Gnome::Conf::Entry . . . . .                       | <a href="#">42</a> |
| Gnome::Conf::Schema . . . . .                      | <a href="#">49</a> |
| Gnome::Conf::SetInterface . . . . .                | <a href="#">54</a> |
| Gnome::Conf::ChangeSet . . . . .                   | <a href="#">17</a> |
| Gnome::Conf::Client . . . . .                      | <a href="#">22</a> |
| Gnome::Conf::Value . . . . .                       | <a href="#">57</a> |
| hash_load_check_resize_trigger_size_base . . . . . | <a href="#">66</a> |
| lu_counter_policy_base . . . . .                   | <a href="#">66</a> |
| mask_based_range_hashing . . . . .                 | <a href="#">67</a> |
| mod_based_range_hashing . . . . .                  | <a href="#">67</a> |



## Chapter 5

# Class Index

### 5.1 Class List

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

|                                                                                                                                                                                                                                                           |    |
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| <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                                                                                                                                           | 17 |
| <a href="#">Gnome::Conf::Client</a>                                                                                                                                                                                                                       |    |
| The main <a href="#">Gnome::Conf</a> object                                                                                                                                                                                                               | 22 |
| <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 | 42 |
| <a href="#">Gnome::Conf::Error</a>                                                                                                                                                                                                                        |    |
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| <a href="#">Gnome::Conf::Schema</a>                                                                                                                                                                                                                       | 49 |
| <a href="#">Gnome::Conf::SetInterface</a>                                                                                                                                                                                                                 |    |
| Common Interface for key-value settable objects                                                                                                                                                                                                           | 54 |
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| <a href="#">lu_counter_policy_base</a>                                                                                                                                                                                                                    | 66 |
| <a href="#">mask_based_range_hashing</a>                                                                                                                                                                                                                  | 67 |
| <a href="#">mod_based_range_hashing</a>                                                                                                                                                                                                                   | 67 |



# Chapter 6

## Topic 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` ()
- `Glib::RefPtr< Gnome::Conf::Client > wrap` (GConfClient \*object, bool take\_copy=false)  
*A Glib::wrap() method for this object.*
- `Gnome::Conf::Entry wrap` (GConfEntry \*object, bool take\_copy=false)  
*A Glib::wrap() method for this object.*
- `Gnome::Conf::Schema wrap` (GConfSchema \*object, bool take\_copy=false)  
*A Glib::wrap() method for this object.*
- `Gnome::Conf::Value wrap` (GConfValue \*object, bool take\_copy=false)  
*A Glib::wrap() method for this object.*

## 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

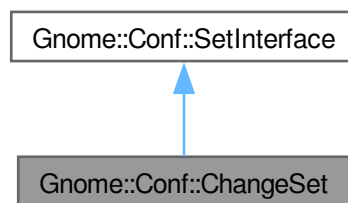
# Class Documentation

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

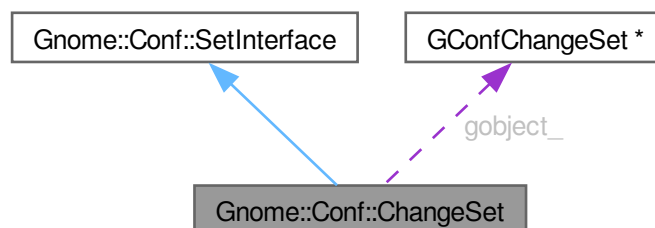
A [ChangeSet](#) is a set of changes to the GConf database that can be committed and reversed easily.

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

Inheritance diagram for Gnome::Conf::ChangeSet:



Collaboration diagram for Gnome::Conf::ChangeSet:



## Public Types

- typedef sigc::slot< void, const Glib::ustring &, const [Value](#) & > [ForeachSlot](#)

## Public Member Functions

- [ChangeSet](#) ()
- [ChangeSet](#) (GConfChangeSet \*castitem, bool make\_a\_copy=false)
- [ChangeSet](#) (const [ChangeSet](#) &src)
- [ChangeSet](#) & [operator=](#) (const [ChangeSet](#) &src)
- virtual [~ChangeSet](#) ()
- GConfChangeSet \* [gobj](#) ()
- const GConfChangeSet \* [gobj](#) () const
- GConfChangeSet \* [gobj\\_copy](#) () const
- void [clear](#) ()  
*Clear all entries.*
- unsigned int [size](#) () const  
*Returns the number of keys in the changeset.*
- void [remove](#) (const Glib::ustring &key)  
*Remove the specified key from the changeset.*
- [Value](#) \* [exists](#) (const Glib::ustring &key) const  
*Check whether the given key will be modified by a commit operation.*
- void [unset](#) (const Glib::ustring &key)  
*Unset the given key.*
- virtual void [set](#) (const Glib::ustring &key, const [Value](#) &value)
- virtual void [set](#) (const Glib::ustring &key, bool what)
- virtual void [set](#) (const Glib::ustring &key, int what)
- virtual void [set](#) (const Glib::ustring &key, double what)
- virtual void [set](#) (const Glib::ustring &key, const Glib::ustring &what)
- virtual void [set](#) (const Glib::ustring &key, const [Schema](#) &what)
- void [for\\_each](#) (const [ForeachSlot](#) &slot)  
*Iterate over the keys marked in this [ChangeSet](#).*

## Public Member Functions inherited from [Gnome::Conf::SetInterface](#)

- 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)

## Protected Attributes

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

### 8.1.1 Detailed Description

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

The changes can be both set and unset operations. Currently the [ChangeSet](#) operations are not atomic, and not specially optimized for. However, it is suitable for use, for instance, preferences dialogs.

The `set*()` methods do not throw errors, they simply store the keys and the values.

See also

[Client::change\\_set\\_from\\_current\(\)](#), [Client::change\\_set\\_commit\(\)](#), [Client::change\\_set\\_reverse\(\)](#).

### 8.1.2 Member Typedef Documentation

#### 8.1.2.1 ForeachSlot

```
sigc::slot<void, const Glib::ustring&, const Value&> Gnome::Conf::ChangeSet::ForeachSlot
```

### 8.1.3 Constructor & Destructor Documentation

#### 8.1.3.1 ChangeSet() [1/3]

```
Gnome::Conf::ChangeSet::ChangeSet ()
```

#### 8.1.3.2 ChangeSet() [2/3]

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

#### 8.1.3.3 ChangeSet() [3/3]

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

#### 8.1.3.4 ~ChangeSet()

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

### 8.1.4 Member Function Documentation

#### 8.1.4.1 clear()

```
void Gnome::Conf::ChangeSet::clear ()
```

Clear all entries.

After this method, committing the changeset is a no-op.

#### 8.1.4.2 exists()

```
Value * Gnome::Conf::ChangeSet::exists (
    const Glib::ustring & key) const
```

Check whether the given key will be modified by a commit operation.

##### Returns

0 if the key will not be modified, else the modified value. Remember to delete the [Value](#).

#### 8.1.4.3 for\_each()

```
void Gnome::Conf::ChangeSet::for_each (
    const ForeachSlot & slot)
```

Iterate over the keys marked in this [ChangeSet](#).

Calls `slot` for each key-value pair that is marked in the [ChangeSet](#). Keys marked unset will have a [Value](#) with type `VALUE_INVALID`.

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

```
GConfChangeSet * Gnome::Conf::ChangeSet::gobj () [inline]
```

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

```
const GConfChangeSet * Gnome::Conf::ChangeSet::gobj () const [inline]
```

#### 8.1.4.6 gobj\_copy()

```
GConfChangeSet * Gnome::Conf::ChangeSet::gobj_copy () const
```

#### 8.1.4.7 operator=()

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

#### 8.1.4.8 remove()

```
void Gnome::Conf::ChangeSet::remove (
    const Glib::ustring & key)
```

Remove the specified key from the changeset.

This means that the given key will not be modified by a commit.

**8.1.4.9 set()** [1/6]

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

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

**8.1.4.10 set()** [2/6]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### 8.1.4.15 size()

```
unsigned int Gnome::Conf::ChangeSet::size () const
```

Returns the number of keys in the changeset.

#### 8.1.4.16 unset()

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

Unset the given key.

Mark the key, so that it will be removed from the configuration database during a commit.

### 8.1.5 Member Data Documentation

#### 8.1.5.1 gobject\_

```
GConfChangeSet* Gnome::Conf::ChangeSet::gobject_ [protected]
```

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

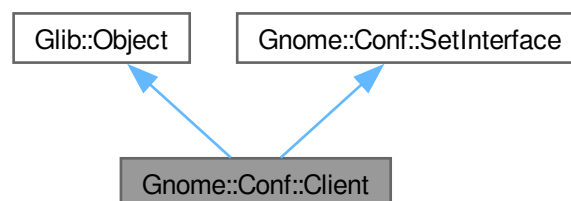
- gconfmm/changeset.h

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

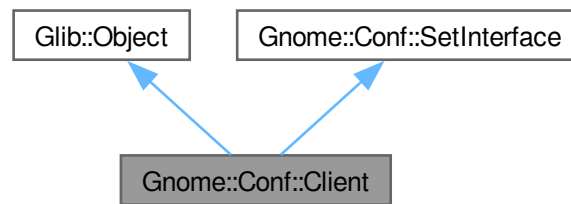
The main [Gnome::Conf](#) object.

```
#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)

## Public Member Functions inherited from Gnome::Conf::SetInterface

- 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)

## 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 Symbols

(Note that these are not member symbols.)

- 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

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

### 8.2.2.2 SListHandleFloats

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

### 8.2.2.3 SListHandleInts

```
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-committed 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

|            |                                           |
|------------|-------------------------------------------|
| <i>set</i> | 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

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

#### 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="#">Gnome::Conf::Error</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="#">Gnome::Conf::Error</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 & pl) 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

|            |                           |
|------------|---------------------------|
| <i>key</i> | 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**

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| <i>namespace_section</i> | the namespace section for which notification is required.              |
| <i>callback</i>          | the sigc::slot to call when the a key under namespace_section 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**

|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| <i>cnxn</i> | a connection id, previously returned by <a href="#">notify_add()</a> |
|-------------|----------------------------------------------------------------------|

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

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

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> |  |
|------------------------------------|--|

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> |  |
|------------------------------------|--|

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> |  |
|------------------------------------|--|

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

|                                  |  |
|----------------------------------|--|
| <code>Gnome::Conf::Error.</code> |  |
|----------------------------------|--|

**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 Symbol 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:

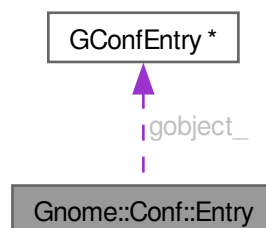
- gconfmm/client.h

**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 Symbols

(Note that these are not member symbols.)

- [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 Symbol 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:

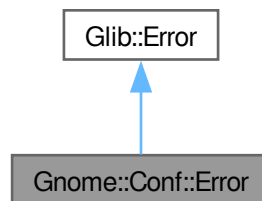
- gconfmm/entry.h

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

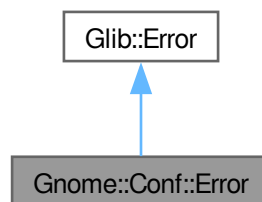
Exception class for [Gnome::Conf::Client](#) errors.

```
#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()

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

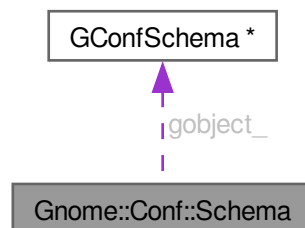
The documentation for this class was generated from the following file:

- 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 Symbols

(Note that these are not member symbols.)

- [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 Symbol 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:

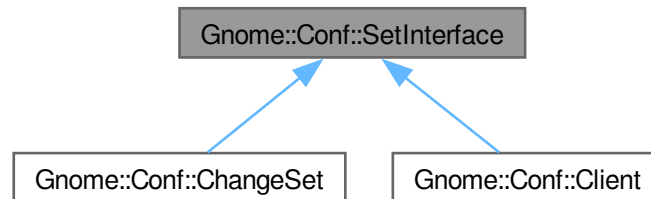
- gconfmm/schema.h

## 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 GConfmm 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:

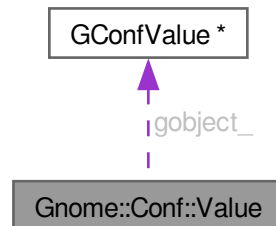
- gconfmm/setinterface.h

## 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 bools.*
- 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 Symbols

(Note that these are not member symbols.)

- [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 value_type is int |
|-------------|-----------------------------------------------------|

#### 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 Symbol 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\_

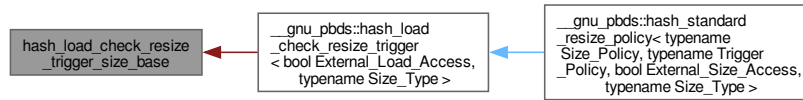
```
GConfValue* Gnome::Conf::Value::gobject_ [protected]
```

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

- gconfmm/value.h

## 8.8 hash\_load\_check\_resize\_trigger\_size\_base Class Reference

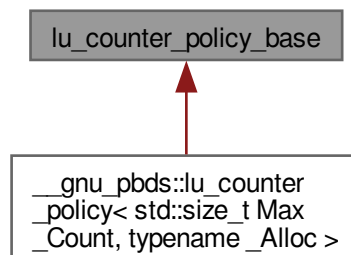
Inheritance diagram for hash\_load\_check\_resize\_trigger\_size\_base:



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

## 8.9 lu\_counter\_policy\_base Class Reference

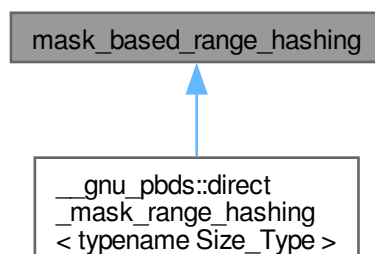
Inheritance diagram for lu\_counter\_policy\_base:



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

## 8.10 mask\_based\_range\_hashing Class Reference

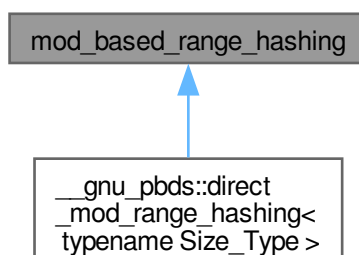
Inheritance diagram for mask\_based\_range\_hashing:



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

## 8.11 mod\_based\_range\_hashing Class Reference

Inheritance diagram for mod\_based\_range\_hashing:



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



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