

gconfmm

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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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4.1 Class Hierarchy

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

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Chapter 5

Class Index

5.1 Class List

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

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A ChangeSet is a set of changes to the GConf database that can be committed and reversed easily	15
Gnome::Conf::Client	
The main Gnome::Conf object	15
Gnome::Conf::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	37
Gnome::Conf::Error	
Exception class for Gnome::Conf::Client errors	42
Gnome::Conf::Schema	44
Gnome::Conf::SetInterface	
Common Interface for key-value settable objects	50
Gnome::Conf::Value	
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)

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

- 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)

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 ChangeSet to commit.
<i>remove_committed</i>	whether to remove successfully-committed keys from the ChangeSet .

Exceptions

Gnome::Conf::Error	
------------------------------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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 ChangeSet to reverse.
------------------	---

Returns

the reverse [ChangeSet](#).

Exceptions

Gnome::Conf::Error	
------------------------------------	--

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

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

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 Schema 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 Entry 's Schema . Use 0 to use the default.
<i>use_schema_default</i>	whether to fall back to the Schema 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>Gnome::Conf::Error</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

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

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

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

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

<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 notify_add()
-------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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

Gnome::Conf::Error	
------------------------------------	--

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 writable.

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 Value 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]

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