

NAME

`gdbus-codegen` - D-Bus code and documentation generator

SYNOPSIS

```
gdbus-codegen [-h, --help] [--interface-prefix org.project.Prefix] [--generate-c-code OUTFILES]
                [--c-namespace YourProject] [--c-generate-object-manager]
                [--c-generate-autocleanup none|objects|all] [--output-directory OUTDIR]
                [--generate-docbook OUTFILES] [--generate-rst OUTFILES] [--pragma-once]
                [--xml-files FILE] [--header] [--body] [--interface-info-header]
                [--interface-info-body] [--symbol-decorator DECORATOR]
                [--symbol-decorator-header HEADER] [--symbol-decorator-define DEFINE]
                [--output OUTFILE] [--annotate ELEMENT KEY VALUE]...
                [--glib-min-required VERSION] [--glib-max-allowed VERSION] FILE
                [FILE...]
```

DESCRIPTION

`gdbus-codegen` is used to generate code and/or documentation for one or more D-Bus interfaces.

`gdbus-codegen` reads **D-Bus Introspection XML**[1] from files passed as additional arguments on the command line and generates output files. It currently supports generating C source code (via **--body**) or header (via **--header**) and Docbook XML (via **--generate-docbook**). Alternatively, more restricted C source code and headers can be generated, which just contain the interface information (as **GDBusInterfaceInfo** structures) using **--interface-info-body** and **--interface-info-header**.

GENERATING C CODE

When generating C code, a `#GInterface` -derived type is generated for each D-Bus interface. Additionally, for every generated type, **FooBar**, two concrete instantiatable types, **FooBarProxy** and **FooBarSkeleton**, implementing said interface are also generated. The former is derived from `#GDBusProxy` and intended for use on the client side while the latter is derived from the `#GDBusInterfaceSkeleton` type making it easy to export on a `#GDBusConnection` either directly or via a `#GDBusObjectManagerServer` instance.

For C code generation either **--body** that generates source code, **--header** that generates headers, **--interface-info-body** that generates interface information source code, or **--interface-info-header** that generates interface information headers, can be used. These options must be used along with **--output**, which is used to specify the file to output to.

Both files can be generated at the same time by using **--generate-c-code**, but this option is deprecated. In this case **--output** cannot be used due to the generation of multiple files. Instead pass **--output-directory** to specify the directory to put the output files in. By default the current directory will

be used.

The name of each generated C type is derived from the D-Bus interface name stripped with the prefix given with **--interface-prefix** and with the dots removed and initial characters capitalized. For example, for the D-Bus interface `com.acme.Coyote` the name used is `ComAcmeCoyote`. For the D-Bus interface `org.project.Bar.Frobnicator` with **--interface-prefix** `org.project.`, the name used is `BarFrobnicator`.

For methods, signals and properties, if not specified, the name defaults to the name of the method, signal or property.

Two forms of the name are used - the CamelCase form and the lower-case form. The CamelCase form is used for the #GType and struct name, while lower-case form is used in function names. The lower-case form is calculated by converting from CamelCase to lower-case and inserting underscores at word boundaries (using certain heuristics).

If the value given by the `org.gtk.GDBus.C.Name` annotation or the **--c-namespace** option contains an underscore (sometimes called *Ugly_Case*), then the camel-case name is derived by removing all underscores, and the lower-case name is derived by lower-casing the string. This is useful in some situations where abbreviations are used. For example, if the annotation is used on the interface `net.MyCorp.MyApp.iSCSITarget` with the value `iSCSI_Target` the CamelCase form is `iSCSITarget` while the lower-case form is `iscsi_target`. If the annotation is used on the method `EjectTheiPod` with the value `Eject_The_iPod`, the lower-case form is `eject_the_ipod`.

GENERATING DOCBOOK DOCUMENTATION

Each generated Docbook XML file (see the **--generate-docbook** option for details) is a **RefEntry**[2] article describing the D-Bus interface.

GENERATING RESTRUCTUREDTEXT DOCUMENTATION

Each generated reStructuredText file (see the **--generate-rst** option for details) is a plain text **reStructuredText**[3] document describing the D-Bus interface.

OPTIONS

The following options are supported:

-h, --help

Show help and exit.

--xml-files FILE

This option is deprecated; use positional arguments instead. The D-Bus introspection XML file.

--interface-prefix *org.project.Prefix*.

A prefix to strip from all D-Bus interface names when calculating the typename for the C binding and the Docbook **sortas attribute**[4].

--generate-docbook *OUTFILES*

Generate Docbook Documentation for each D-Bus interface and put it in *OUTFILES-NAME.xml* where NAME is a place-holder for the interface name, e.g. net.Corp.FooBar and so on.

Pass **--output-directory** to specify the directory to put the output files in. By default the current directory will be used.

--generate-rst *OUTFILES*

Generate reStructuredText Documentation for each D-Bus interface and put it in *OUTFILES-NAME.rst* where NAME is a place-holder for the interface name, e.g. net.Corp.FooBar and so on.

Pass **--output-directory** to specify the directory to put the output files in. By default the current directory will be used.

--generate-c-code *OUTFILES*

Generate C code for all D-Bus interfaces and put it in *OUTFILES.c* and *OUTFILES.h* including any sub-directories. If you want the files to be output in a different location use **--output-directory** as *OUTFILES.h* including sub-directories will be referenced from *OUTFILES.c*.

The full paths would then be $\$(OUTDIR)/\$(dirname \$OUTFILES)/\$(basename \$OUTFILES).\{c,h\}$.

--c-namespace *YourProject*

The namespace to use for generated C code. This is expected to be in **CamelCase**[5] or *Ugly_Case* (see above).

--pragma-once

If this option is passed, the **#pragma once**[6] preprocessor directive is used instead of include guards.

--c-generate-object-manager

If this option is passed, suitable `#GDBusObject`, `#GDBusObjectProxy`, `#GDBusObjectSkeleton` and `#GDBusObjectManagerClient` subclasses are generated.

--c-generate-autocleanup none|objects|all

This option influences what types autocleanup functions are generated for. 'none' means to not generate any autocleanup functions. 'objects' means to generate them for object types, and 'all' means to generate them for object types and interfaces. The default is 'objects' due to a corner case in backwards compatibility with a few projects, but you should likely switch your project to use 'all'. This option was added in GLib 2.50.

--output-directory *OUTDIR*

Directory to output generated source to. Equivalent to changing directory before generation.

This option cannot be used with **--body**, **--header**, **--interface-info-body** or **--interface-info-header**; and **--output** must be used.

--header

If this option is passed, it will generate the header code and write it to the disk by using the path and file name provided by **--output**.

Using **--generate-c-code**, **--generate-docbook** or **--output-directory** are not allowed to be used along with **--header** and **--body** options, because these options are used to generate only one file.

--body

If this option is passed, it will generate the source code and write it to the disk by using the path and file name provided by **--output**.

Using **--generate-c-code**, **--generate-docbook** or **--output-directory** are not allowed to be used along with **--header** and **--body** options, because these options are used to generate only one file.

--interface-info-header

If this option is passed, it will generate the header code for the **GDBusInterfaceInfo** structures only and will write it to the disk by using the path and file name provided by **--output**.

Using **--generate-c-code**, **--generate-docbook** or **--output-directory** are not allowed to be used along with the **--interface-info-header** and **--interface-info-body** options, because these options are used to generate only one file.

--interface-info-body

If this option is passed, it will generate the source code for the **GDBusInterfaceInfo** structures only and will write it to the disk by using the path and file name provided by **--output**.

Using **--generate-c-code**, **--generate-docbook** or **--output-directory** are not allowed to be used along with the **--interface-info-header** and **--interface-info-body** options, because these options are

used to generate only one file.

--symbol-decorator *DECORATOR*

If a *DECORATOR* is passed in with this option, all the generated function prototypes in the generated header will be marked with *DECORATOR*. This can be used, for instance, to export symbols from code generated with **gdbus-codegen**. This option is added in GLib-2.66

--symbol-decorator-header *HEADER*

If a *HEADER* is passed in with this option, the generated header will put a `#include HEADER` before the rest of the items, except for the inclusion guards or `#pragma once` (if **--pragma-once** is used). This is used if using another header file is needed for the decorator passed in via **--symbol-decorator** to be defined. This option is added in GLib-2.66.

This option can only be used if **--symbol-decorator** is used.

--symbol-decorator-define *DEFINE*

If a *DEFINE* is passed in with this option, the generated source will add a `#define DEFINE` before the rest of the items. This is used if a particular macro is needed to ensure the decorator passed in via **--symbol-decorator** uses the correct definition when the generated source is being compiled. This option is added in GLib-2.66.

This option can only be used if **--symbol-decorator** is used.

--output *OUTFILE*

The full path where the header (**--header**, **--interface-info-header**) or the source code (**--body**, **--interface-info-body**) will be written, using the path and filename provided by **--output**. The full path could be something like `$(OUTFILE).{c,h}`.

Using **--generate-c-code**, **--generate-docbook** or **--output-directory** is not allowed along with **--output**, because the latter is used to generate only one file.

--annotate *ELEMENT KEY VALUE*

Used to inject D-Bus annotations into the given XML files. It can be used with interfaces, methods, signals, properties and arguments in the following way:

```
gdbus-codegen --c-namespace MyApp          \
--generate-c-code myapp-generated         \
--annotate "org.project.InterfaceName"    \
  org.gtk.GDBus.C.Name MyFrobnicator     \
--annotate "org.project.InterfaceName:Property" \
```

```

bar bat \
--annotate "org.project.InterfaceName.Method()" \
org.freedesktop.DBus.Deprecated true \
--annotate "org.project.InterfaceName.Method()[arg_name]" \
snake hiss \
--annotate "org.project.InterfaceName::Signal" \
cat meow \
--annotate "org.project.InterfaceName::Signal[arg_name]" \
dog wuff \
myapp-dbus-interfaces.xml

```

Any UTF-8 string can be used for *KEY* and *VALUE*.

--glib-min-required *VERSION*

Specifies the minimum version of GLib which the code generated by **gdbus-codegen** can depend on. This may be used to make backwards-incompatible changes in the output or behaviour of **gdbus-codegen** in future, which users may opt in to by increasing the value they pass for **--glib-min-required**. If this option is not passed, the output from **gdbus-codegen** is guaranteed to be compatible with all versions of GLib from 2.30 upwards, as that is when **gdbus-codegen** was first released.

Note that some version parameters introduce incompatible changes: all callers of the generated code might need to be updated, and if the generated code is part of a library's API or ABI, then increasing the version parameter can result in an API or ABI break.

The version number must be of the form *MAJOR.MINOR.MICRO*, where all parts are integers. *MINOR* and *MICRO* are optional. The version number may not be smaller than 2.30.

If the version number is 2.64 or greater, the generated code will have the following features: (1) If a method has h (file descriptor) parameter(s), a **GUnixFDList** parameter will exist in the generated code for it (whereas previously the annotation `org.gtk.GDBus.C.UnixFD` was required), and (2) Method call functions will have two additional arguments to allow the user to specify **GDBusCallFlags** and a timeout value, as is possible when using `g_dbus_proxy_call()`.

--glib-max-allowed *VERSION*

Specifies the maximum version of GLib which the code generated by **gdbus-codegen** can depend on. This may be used to ensure that code generated by **gdbus-codegen** is compilable with specific older versions of GLib that your software has to support.

The version number must be of the form *MAJOR.MINOR.MICRO*, where all parts are integers. *MINOR* and *MICRO* are optional. The version number must be greater than or equal to that

passed to **--glib-min-required**. It defaults to the version of GLib which provides this **gdbus-codegen**.

SUPPORTED D-BUS ANNOTATIONS

The following D-Bus annotations are supported by **gdbus-codegen**:

org.freedesktop.DBus.Deprecated

Can be used on any `<interface>`, `<method>`, `<signal>` and `<property>` element to specify that the element is deprecated if its value is true. Note that this annotation is defined in the **D-Bus specification**[1] and can only assume the values true and false. In particular, you cannot specify the version that the element was deprecated in nor any helpful deprecation message. Such information should be added to the element documentation instead.

When generating C code, this annotation is used to add `#G_GNUC_DEPRECATED` to generated functions for the element.

When generating Docbook XML, a deprecation warning will appear along the documentation for the element.

org.gtk.GDBus.Since

Can be used on any `<interface>`, `<method>`, `<signal>` and `<property>` element to specify the version (any free-form string but compared using a version-aware sort function) the element appeared in.

When generating C code, this field is used to ensure function pointer order for preserving ABI/API, see the section called "STABILITY GUARANTEES".

When generating Docbook XML, the value of this tag appears in the documentation.

org.gtk.GDBus.DocString

A string with Docbook content for documentation. This annotation can be used on `<interface>`, `<method>`, `<signal>`, `<property>` and `<arg>` elements.

org.gtk.GDBus.DocString.Short

A string with Docbook content for short/brief documentation. This annotation can only be used on `<interface>` elements.

org.gtk.GDBus.C.Name

Can be used on any `<interface>`, `<method>`, `<signal>` and `<property>` element to specify the name to use when generating C code. The value is expected to be in **CamelCase**[5] or *Ugly_Case* (see

above).

org.gtk.GDBus.C.ForceGVariant

If set to a non-empty string, a #GVariant instance will be used instead of the natural C type. This annotation can be used on any <arg> and <property> element.

org.gtk.GDBus.C.UnixFD

If set to a non-empty string, the generated code will include parameters to exchange file descriptors using the #GUnixFDList type. This annotation can be used on <method> elements.

As an easier alternative to using the org.gtk.GDBus.DocString annotation, note that parser used by **gdbus-codegen** parses XML comments in a way similar to **gtk-doc**[7]:

Note that @since can be used in any inline documentation bit (e.g. for interfaces, methods, signals and properties) to set the org.gtk.GDBus.Since annotation. For the org.gtk.GDBus.DocString annotation (and inline comments), note that substrings of the form #net.Corp.Bar, net.Corp.Bar.FooMethod(), #net.Corp.Bar::BarSignal and #net.Corp.InlineDocs:BazProperty are all expanded to links to the respective interface, method, signal and property. Additionally, substrings starting with @ and % characters are rendered as **parameter**[8] and **constant**[9] respectively.

If both XML comments and org.gtk.GDBus.DocString or org.gtk.GDBus.DocString.Short annotations are present, the latter wins.

EXAMPLE

Consider the following D-Bus Introspection XML.

```
<node>
  <interface name="net.Corp.MyApp.Frobber">
    <method name="HelloWorld">
      <arg name="greeting" direction="in" type="s"/>
      <arg name="response" direction="out" type="s"/>
    </method>

    <signal name="Notification">
      <arg name="icon_blob" type="ay"/>
      <arg name="height" type="i"/>
      <arg name="messages" type="as"/>
    </signal>
  </interface>
</node>
```



```

    <property name="Verbose" type="b" access="readwrite"/>
</interface>
</node>

```

If **gdbus-codegen** is used on this file like this:

```

gdbus-codegen --generate-c-code myapp-generated \
  --c-namespace MyApp \
  --interface-prefix net.corp.MyApp. \
  net.Corp.MyApp.Frobber.xml

```

two files called `myapp-generated.[ch]` are generated. The files provide an abstract #GTypeInterface-derived type called **MyAppFrobber** as well as two instantiatable types with the same name but suffixed with **Proxy** and **Skeleton**. The generated file, roughly, contains the following facilities:

```

/* GType macros for the three generated types */
#define MY_APP_TYPE_FROBBER (my_app_frobber_get_type ())
#define MY_APP_TYPE_FROBBER_SKELETON (my_app_frobber_skeleton_get_type ())
#define MY_APP_TYPE_FROBBER_PROXY (my_app_frobber_proxy_get_type ())

typedef struct _MyAppFrobber MyAppFrobber; /* Dummy typedef */

typedef struct
{
    GTypeInterface parent_iface;

    /* Signal handler for the ::notification signal */
    void (*notification) (MyAppFrobber *proxy,
                          GVariant *icon_blob,
                          gint height,
                          const gchar* const *messages);

    /* Signal handler for the ::handle-hello-world signal */
    gboolean (*handle_hello_world) (MyAppFrobber *proxy,
                                     GDBusMethodInvocation *invocation,
                                     const gchar *greeting);
} MyAppFrobberIface;

/* Asynchronously calls HelloWorld() */
void

```

```

my_app_frobber_call_hello_world (MyAppFrobber *proxy,
    const gchar *greeting,
    Gancellable *cancellable,
    GAsyncReadyCallback callback,
    gpointer user_data);

gboolean
my_app_frobber_call_hello_world_finish (MyAppFrobber *proxy,
    gchar **out_response,
    GAsyncResult *res,
    GError **error);

/* Synchronously calls HelloWorld(). Blocks calling thread. */
gboolean
my_app_frobber_call_hello_world_sync (MyAppFrobber *proxy,
    const gchar *greeting,
    gchar **out_response,
    Gancellable *cancellable,
    GError **error);

/* Completes handling the HelloWorld() method call */
void
my_app_frobber_complete_hello_world (MyAppFrobber *object,
    GDBusMethodInvocation *invocation,
    const gchar *response);

/* Emits the ::notification signal / Notification() D-Bus signal */
void
my_app_frobber_emit_notification (MyAppFrobber *object,
    GVariant *icon_blob,
    gint height,
    const gchar* const *messages);

/* Gets the :verbose GObject property / Verbose D-Bus property.
 * Does no blocking I/O.
 */
gboolean my_app_frobber_get_verbose (MyAppFrobber *object);

/* Sets the :verbose GObject property / Verbose D-Bus property.
 * Does no blocking I/O.
 */

```

```

void my_app_frobber_set_verbose (MyAppFrobber *object,
                                gboolean    value);

/* Gets the interface info */
GDBusInterfaceInfo *my_app_frobber_interface_info (void);

/* Creates a new skeleton object, ready to be exported */
MyAppFrobber *my_app_frobber_skeleton_new (void);

/* Client-side proxy constructors.
 *
 * Additionally, _new_for_bus(), _new_for_bus_finish() and
 * _new_for_bus_sync() proxy constructors are also generated.
 */
void
my_app_frobber_proxy_new (GDBusConnection *connection,
                          GDBusProxyFlags flags,
                          const gchar    *name,
                          const gchar    *object_path,
                          GCancellable   *cancellable,
                          GAsyncReadyCallback callback,
                          gpointer        user_data);

MyAppFrobber *
my_app_frobber_proxy_new_finish (GAsyncResult *res,
                                  GError      **error);

MyAppFrobber *
my_app_frobber_proxy_new_sync (GDBusConnection *connection,
                               GDBusProxyFlags flags,
                               const gchar    *name,
                               const gchar    *object_path,
                               GCancellable   *cancellable,
                               GError        **error);

```

Thus, for every D-Bus method, there will be three C functions for calling the method, one #GObject signal for handling an incoming call and one C function for completing an incoming call. For every D-Bus signal, there's one #GObject signal and one C function for emitting it. For every D-Bus property, two C functions are generated (one setter, one getter) and one #GObject property. The following table summarizes the generated facilities and where they are applicable:

+-----+-----+-----+-----+

	Client	Server
Types	Use MyAppFrobberProxy	Any type implementing the MyAppFrobber interface
Methods	Use m_a_f_hello_world() to call.	Receive via the handle_hello_world() signal handler. Complete the call with m_a_f_complete_hello_world()
Signals	Connect to the ::notification GObject signal.	Use m_a_f_emit_notification() to emit signal.
Properties (Reading)	Use m_a_f_get_verbose() or <i>:verbose</i> .	Implement #GObject's get_property() vfunc.
Properties (writing)	Use m_a_f_set_verbose() or <i>:verbose</i> .	Implement #GObject's set_property() vfunc.

Client-side usage

You can use the generated proxy type with the generated constructors:

```
MyAppFrobber *proxy;
GError *error;

error = NULL;
proxy = my_app_frobber_proxy_new_for_bus_sync (
    G_BUS_TYPE_SESSION,
    G_DBUS_PROXY_FLAGS_NONE,
    "net.Corp.MyApp",          /* bus name */
    "/net/Corp/MyApp/SomeFrobber", /* object */
    NULL,                    /* GCancellable* */
    &error);
/* do stuff with proxy */
g_object_unref (proxy);
```

Instead of using the generic #GDBusProxy facilities, one can use the generated methods such as **my_app_frobber_call_hello_world()** to invoke the **net.Corp.MyApp.Frobber.HelloWorld()** D-Bus method, connect to the **::notification** GObject signal to receive the **net.Corp.MyApp.Frobber::Notification** D-Bus signal and get/set the *net.Corp.MyApp.Frobber:Verbose* D-Bus Property using either the GObject property *:verbose* or the **my_app_get_verbose()** and **my_app_set_verbose()** methods. Use the standard #GObject::notify signal to listen to property changes.

Note that all property access is via #GDBusProxy 's property cache so no I/O is ever done when reading properties. Also note that setting a property will cause the **org.freedesktop.DBus.Properties.Set[10]** method to be called on the remote object. This call, however, is asynchronous so setting a property won't block. Further, the change is delayed and no error checking is possible.

Server-side usage

The generated **MyAppFrobber** interface is designed so it is easy to implement it in a #GObject subclass. For example, to handle **HelloWorld()** method invocations, set the vfunc for **handle_hello_hello_world()** in the **MyAppFrobberIfc** structure. Similarly, to handle the *net.Corp.MyApp.Frobber:Verbose* property override the *:verbose* #GObject property from the subclass. To emit a signal, use e.g. **my_app_emit_signal()** or **g_signal_emit_by_name()**.

Instead of subclassing, it is often easier to use the generated **MyAppFrobberSkeleton** subclass. To handle incoming method calls, use **g_signal_connect()** with the **::handle-*** signals and instead of overriding #GObject 's **get_property()** and **set_property()** vfuncs, use **g_object_get()** and **g_object_set()** or the generated property getters and setters (the generated class has an internal property bag implementation).

```
static gboolean
on_handle_hello_world (MyAppFrobber      *interface,
                       GDBusMethodInvocation *invocation,
                       const gchar       *greeting,
                       gpointer          user_data)
{
    if (g_strcmp0 (greeting, "Boo") != 0)
    {
        gchar *response;
        response = g_strdup_printf ("Word! You said '%s'.", greeting);
        my_app_complete_hello_world (interface, invocation, response);
        g_free (response);
    }
    else
```

```

    {
        g_dbus_method_invocation_return_error (invocation,
            MY_APP_ERROR,
            MY_APP_ERROR_NO_WHINING,
            "Hey, %s, there will be no whining!",
            g_dbus_method_invocation_get_sender (invocation));
    }
    return TRUE;
}

[...]

interface = my_app_frobber_skeleton_new ();
my_app_frobber_set_verbose (interface, TRUE);

g_signal_connect (interface,
    "handle-hello-world",
    G_CALLBACK (on_handle_hello_world),
    some_user_data);

[...]

error = NULL;
if (!g_dbus_interface_skeleton_export (G_DBUS_INTERFACE_SKELETON (interface),
    connection,
    "/path/of/dbus_object",
    &error))
{
    /* handle error */
}

```

To facilitate atomic changesets (multiple properties changing at the same time), #GObject::notify signals are queued up when received. The queue is drained in an idle handler (which is called from the thread-default main loop of the thread where the skeleton object was constructed) and will cause emissions of the **org.freedesktop.DBus.Properties::PropertiesChanged**[10] signal with all the properties that have changed. Use `g_dbus_interface_skeleton_flush()` or `g_dbus_object_skeleton_flush()` to empty the queue immediately. Use `g_object_freeze_notify()` and `g_object_thaw_notify()` for atomic changesets if on a different thread.

C TYPE MAPPING

Scalar types (type-strings 'b', 'y', 'n', 'q', 'i', 'u', 'x', 't' and 'd'), strings (type-strings 's', 'ay', 'o' and 'g') and arrays of string (type-strings 'as', 'ao' and 'aay') are mapped to the natural types, e.g. #gboolean, #gdouble, #gint, gchar*, gchar** and so on. Everything else is mapped to the #GVariant type.

This automatic mapping can be turned off by using the annotation `org.gtk.GDBus.C.ForceGVariant` - if used then a #GVariant is always exchanged instead of the corresponding native C type. This annotation may be convenient to use when using bytestrings (type-string 'ay') for data that could have embedded NUL bytes.

STABILITY GUARANTEES

The generated C functions are guaranteed to not change their ABI. That is, if a method, signal or property does not change its signature in the introspection XML, the generated C functions will not change their C ABI either. The ABI of the generated instance and class structures will be preserved as well.

The ABI of the generated #GTypes will be preserved only if the `org.gtk.GDBus.Since` annotation is used judiciously -- this is because the VTable for the #GInterface relies on functions pointers for signal handlers. Specifically, if a D-Bus method, property or signal is added to a D-Bus interface, then ABI of the generated #GInterface type is preserved if, and only if, each added method, property signal is annotated with the `org.gtk.GDBus.Since` annotation using a greater version number than previous versions.

The generated C code currently happens to be annotated with **gtk-doc**[7] / **GObject Introspection**[11] comments / annotations. The layout and contents might change in the future so no guarantees about e.g. SECTION usage etc. is given.

While the generated Docbook for D-Bus interfaces isn't expected to change, no guarantees are given at this point.

It is important to note that the generated code should not be checked into revision control systems, nor it should be included in distributed source archives.

BUGS

Please send bug reports to either the distribution bug tracker or the upstream bug tracker at <https://gitlab.gnome.org/GNOME/glib/issues/new>.

SEE ALSO

gdbus(1)

NOTES

1. D-Bus Introspection XML
<http://dbus.freedesktop.org/doc/dbus-specification.html#introspection-format>
2. RefEntry
<http://www.docbook.org/tdg/en/html/refentry.html>
3. reStructuredText
<https://docutils.sourceforge.io/rst.html>
4. sortas attribute
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