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Rocky Enterprise Linux 9.2 Manual Pages on command 'Net::DBus::Test::MockConnection.3pm'

\$ man Net::DBus::Test::MockConnection.3pm

Net::DBus::Test::MockConnectionUser)Contributed Perl DocumentNet::DBus::Test::MockConnection(3pm)

NAME

Net::DBus::Test::MockConnection - Fake a connection to the bus unit testing

SYNOPSIS

```
use Net::DBus;

my $bus = Net::DBus->test

# Register a service, and the objec to be tested
use MyObject
my $service = $bus->export_service("org.example.MyService");
my $object = MyObject->new($service);

# Acquire the service & do tests
my $remote_service = $bus->get_service('org.example.MyService');
my $remote_object = $service->get_object("/org/example/MyObjct");

# This traverses the mock connection, eventually
# invoking 'testSomething' on the $object above.
$remote_object->testSomething()
```

DESCRIPTION

This object provides a fake implementation of the `Net::DBus::Binding::Connection` enabling a pure 'in-memory' message bus to be mocked up. This is intended to facilitate creation of unit tests for services which would otherwise need to call out to other object on a live message bus. It is used as a companion to the `Net::DBus::Test::MockObject` module which is how fake objects are to be provided on the fake bus.

METHODS

```
my $con = Net::DBus::Test::MockConnection->new()
```

Create a new mock connection object instance. It is not usually necessary to create instances of this object directly, instead the "test" method on the `Net::DBus` object can be used to get a handle to a test bus.

```
$con->send($message)
```

Send a message over the mock connection. If the message is a method call, it will be dispatched straight to any corresponding mock object registered. If the message is an error or method return it will be made available as a return value for the "send_with_reply_and_block" method. If the message is a signal it will be queued up for processing by the "dispatch" method.

```
$bus->request_name($service_name)
```

Pretend to send a request to the bus registering the well known name specified in the `$service_name` parameter. In reality this is just a no-op giving the impression that the name was successfully registered.

```
my $reply = $con->send_with_reply_and_block($msg)
```

Send a message over the mock connection and wait for a reply. The `$msg` should be an instance of `Net::DBus::Binding::Message::MethodCall` and the return `$reply` will be an instance of `Net::DBus::Binding::Message::MethodReturn`. It is also possible that an error will be thrown, with the thrown error being blessed into the `Net::DBus::Error` class.

```
$con->dispatch;
```

Dispatches any pending messages in the incoming queue to their message handlers. This method should be called by test suites whenever they anticipate that there are pending signals to be dealt with.

`$con->add_filter($coderef);`

Adds a filter to the connection which will be invoked whenever a message is received.

The `$coderef` should be a reference to a subroutine, which returns a true value if the message should be filtered out, or a false value if the normal message dispatch should be performed.

`$bus->add_match($rule)`

Register a signal match rule with the bus controller, allowing matching broadcast signals to be routed to this client. In reality this is just a no-op giving the impression that the match was successfully registered.

`$bus->remove_match($rule)`

Unregister a signal match rule with the bus controller, preventing further broadcast signals from being routed to this client. In reality this is just a no-op giving the impression that the match was successfully unregistered.

`$con->register_object_path($path, \&handler)`

Registers a handler for messages whose path matches that specified in the `$path` parameter. The supplied code reference will be invoked with two parameters, the connection object on which the message was received, and the message to be processed (an instance of the "Net::DBus::Binding::Message" class).

`$con->register_fallback($path, \&handler)`

Registers a handler for messages whose path starts with the prefix specified in the `$path` parameter. The supplied code reference will be invoked with two parameters, the connection object on which the message was received, and the message to be processed (an instance of the "Net::DBus::Binding::Message" class).

`$con->unregister_object_path($path)`

Unregisters the handler associated with the object path `$path`. The handler would previously have been registered with the "register_object_path" or "register_fallback" methods.

```
my $msg = $con->make_error_message($replyto, $name, $description)
```

Creates a new message, representing an error which occurred during the handling of the method call object passed in as the `$replyto` parameter. The `$name` parameter is the formal name of the error condition, while the `$description` is a short piece of text giving more specific information on the error.

```
my $call = $con->make_method_call_message( $service_name, $object_path, $interface, $method_name);
```

Create a message representing a call on the object located at the path `$object_path` within the client owning the well-known name given by `$service_name`. The method to be invoked has the name `$method_name` within the interface specified by the `$interface` parameter.

```
my $msg = $con->make_method_return_message($replyto)
```

Create a message representing a reply to the method call message passed in the `$replyto` parameter.

```
my $msg = $con->make_signal_message($object_path, $interface, $signal_name);
```

Creates a new message, representing a signal [to be] emitted by the object located under the path given by the `$object_path` parameter. The name of the signal is given by the `$signal_name` parameter, and is scoped to the interface given by the `$interface` parameter.

BUGS

It doesn't completely replicate the API of `Net::DBus::Binding::Connection`, merely enough to make the high level bindings work in a test scenario.

AUTHOR

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SEE ALSO

Net::DBus, Net::DBus::Test::MockObject, Net::DBus::Binding::Connection,

<<http://www.mockobjects.com/Faq.html>>

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