

## BlueTool v0.1 Documentation

- **Compilation**

1. Install the required packages:  
*\$ sudo apt-get install libbluetooth1 libbluetooth1-dev libdbus-1-1 libdbus-1-dev hal*
2. Checkout the latest version:  
*\$ svn co svn://svn.berlios.de/bluetool*
3. Compile:  
*\$ cd blued*  
*\$ make blued*
4. Update dbus configuration:  
*\$ sudo su*  
*\$ cp bluetool.conf/etc/dbus-1/system.d/*
5. Restart dbus:  
*\$ ./etc/init.d/dbus restart*  
*\$ exit*
6. Start Bluetooth daemon:  
*\$ ./blued*

- **Testing**

Invoking arbitrary commands on dbus objects using dbus-send:

```
$ dbus-send --system --type=method_call --print-reply \  
-dest=<service_name> <object_path> <interface>.<member> \  
[<parameters>]
```

- **Troubleshooting**

Enabling dbus debug output:

```
$ DBUS_VERBOSE=true ./bluetool
```

Reading HCI command stream:

```
$ hcidump -X
```

(requires hcidump)

## BlueTool API specification

**Service name:** org.bluetool.hci

**Interface:** org.bluetool.hci.manager

**Member:** ListDevices

**Input parameters:** none

**Output parameters:** list of local device objects (DBUS\_TYPE\_STRING)

**Member:** EnableDevice

**Input parameters:** device name (eg: hci0) (DBUS\_TYPE\_STRING)

**Output parameters:** error status (DBUS\_TYPE\_UINT16)  
error string (DBUS\_TYPE\_STRING) (if status != 0)

**Member:** DisableDevice

**Input parameters:** same as above

**Output parameters:** same as above

**Member:** ResetDevice

**Input parameters:** same as above

**Output parameters:** same as above

**Signal:** HciDeviceAdded (todo)

**Input parameters:** DBUS device path (DBUS\_TYPE\_STRING)

**Signal:** HciDeviceRemoved (todo)

**Input parameters:** same as above

**Interface:** org.bluetooth.hci.device

**Member:** GetProperty

**Input parameters:** property name (DBUS\_TYPE\_STRING)

**Output parameters:** error status (DBUS\_TYPE\_UINT16)  
error string (if status != 0)  
property-specific parameters (if status == 0)

**Member:** SetProperty

**Input parameters:** property name (DBUS\_TYPE\_STRING)  
specific parameters

**Output parameters:** error status  
error string, if any

**Properties:** auth\_enable (bool)  
encrypt\_mode (byte)  
scan\_type (byte)  
packet\_type (string)  
address (string)  
local\_name (string)  
device\_class (u32)  
voice\_setting (u16)  
features (string array)  
version\_info (string, u16, string, u16, string)

(more to be done)

**Member:** StartInquiry

**Input parameters:** lap (byte[3])

**Output parameters:** error status  
error string, if any

**Member:** CancelInquiry

**Input parameters:** none

**Output parameters:** as above

**Member:** PeriodicInquiry

**Input parameters:** todo

**Output parameters:** as above

**Member:** ExitPeriodicInquiry

**Input parameters:** none

**Output parameters:** as above

**Member:** InquiryCache

**Input parameters:** none

**Output parameters:** dbus remote devices path (string list)

**Member:** CreateConnection

**Input parameters:** remote device object (string) packet type (byte)

**Output parameters:** status  
connection object path on success

**Signal:** DeviceInRange

**Input parameters:** dbus path of remote device object

**Signal:** DeviceOutOfRange

**Input parameters:** dbus path of remote device object

<TODO>

**Interface:** org.bluetooth.hci.remote

**Member:**

**Input parameters:**

**Output parameters:**

**Interface:** org.bluetooth.hci.connection