UPNP# Discovery

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1. Discovering devices

Devices can be found on the network using the *net.sbbi.upnp.Discovery* class *discover(...)* methods. The following code snipet show how to discover all root devices on the network :

```
UPNPRootDevice[] devices = Discovery.discover();
if ( devices != null ) {
 for ( int i = 0; i < devices.length; i++ ) {
  System.out.println( "Found device " + devices[i].getModelName() );
 }
}
```

You can also search only a specific type of devices using a *search target* which are usually defined in the devices specs. Here is how to search all Internet Gateway Devices on the network :

```
String st = "upnp:schemas-upnp-org:device:InternetGatewayDevice:1";
UPNPRootDevice[] devices = Discovery.discover( st );
if ( devices != null ) {
 for ( int i = 0; i < devices.length; i++ ) {
  System.out.println( "Found IGD device " + devices[i].getModelName() );
 }
}
```

You can also specify a specific timeout for devices response, try to give enough time to the devices to respond.