Tutorial 2b: Creating a Web Service for Device: DPWS
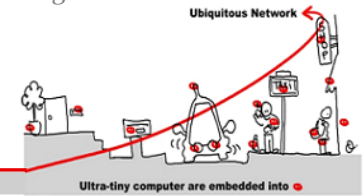
1   DPWS Tools

First of all, you should install the tools from SOA4D:

http://kistren.polytech.unice.fr/cours/muc/tutorial4b/

2   Developing you own DPWS Web Service for Device

2.1   Traffic Light Device

The aim of this tutorial is to implement a new DPWS device The interface of our DPWS Device should be the same as the UPnP one defined below.
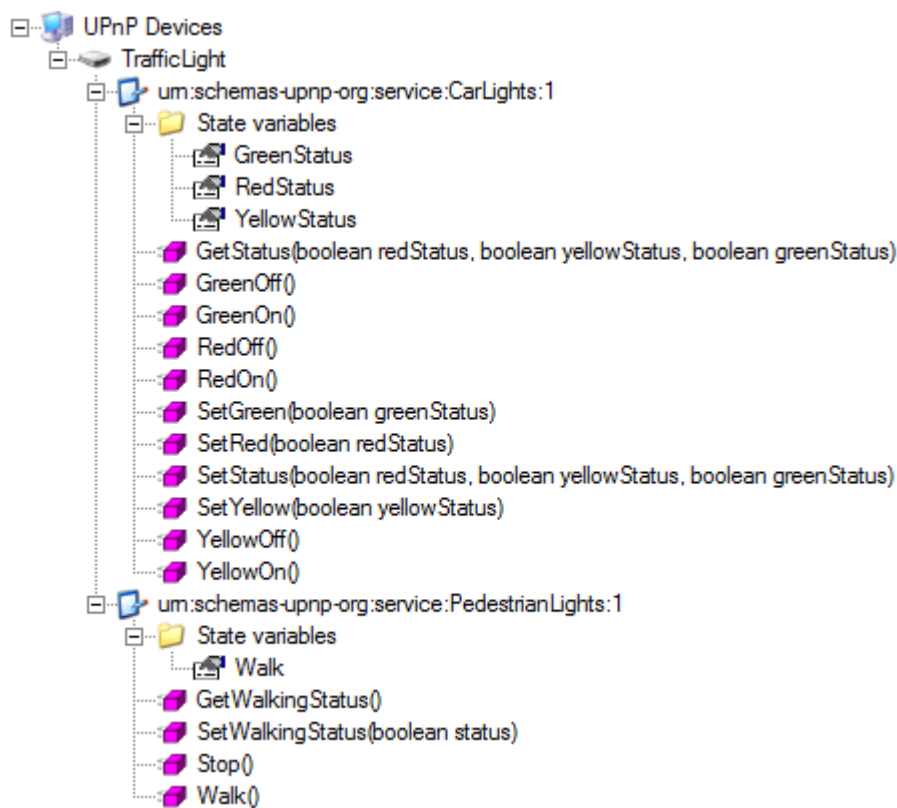

Figure 1: UPnP Interface of the Traffic Light Device

2.1.1   Implementing Traffic Light Services

You should first start by defining the CarLights and PedestrianLights service as a WDSL description file.

2.1.2   Composing Services into a DPWS Device

Once you have created your services, you can assemble them inside a Traffic Light Device. You could try the DWPS Device Builder tool.

2.1.3   Implementing your device

Based on the examples in the dpws-core package, you should code your device methods.