

## Chapter 1 Code Example

This folder contains the full source for the example shown in the first chapter of the tutorial.

The example shows how to create a simple application that produces TempSensorType information and another that consumes it.

### Compiling the example

To compile the example you need:

- g++ v4.6 or higher (clang++ would also be fine)
- CMake v2.6 or higher
- [OpenSplice DDS](#) v6.4 or higher

Once you have installed the required tools simply do:

```
$ cmake .  
$ make
```

### Running the Examples

To run the examples do:

```
$ ./tspub USAGE: tspub
```

This message reveals that the tspub applications takes a single argument which represent the sensor-id. Thus you can do:

```
$ ./tspub 18  
DW << (id = 18, temp = 26.3929, hum = 0.730971, scale = C)  
DW << (id = 18, temp = 25.223, hum = 0.633334, scale = C)  
DW << (id = 18, temp = 27.5442, hum = 0.61266, scale = C)  
DW << (id = 18, temp = 25.7138, hum = 0.741911, scale = C)  
DW << (id = 18, temp = 26.7616, hum = 0.642391, scale = C)  
DW << (id = 18, temp = 26.6769, hum = 0.669719, scale = C)  
DW << (id = 18, temp = 27.1806, hum = 0.647648, scale = C)  
DW << (id = 18, temp = 26.9862, hum = 0.649711, scale = C)  
DW << (id = 18, temp = 26.0595, hum = 0.658227, scale = C)
```

Then you can start the consumer as follows:

```
$ ./tssub
(id = 18, temp = 26.3929, hum = 0.730971, scale = C)
(id = 18, temp = 25.223, hum = 0.633334, scale = C)
(id = 18, temp = 27.5442, hum = 0.61266, scale = C)
(id = 18, temp = 25.7138, hum = 0.741911, scale = C)
(id = 18, temp = 26.7616, hum = 0.642391, scale = C)
(id = 18, temp = 26.6769, hum = 0.669719, scale = C)
(id = 18, temp = 27.1806, hum = 0.647648, scale = C)
(id = 18, temp = 26.9862, hum = 0.649711, scale = C)
(id = 18, temp = 26.0595, hum = 0.658227, scale = C)
```