Production Supporting Systems in Factories

ระบบสนับสนุนการผลิตในโรงงานอุตสาหกรรม

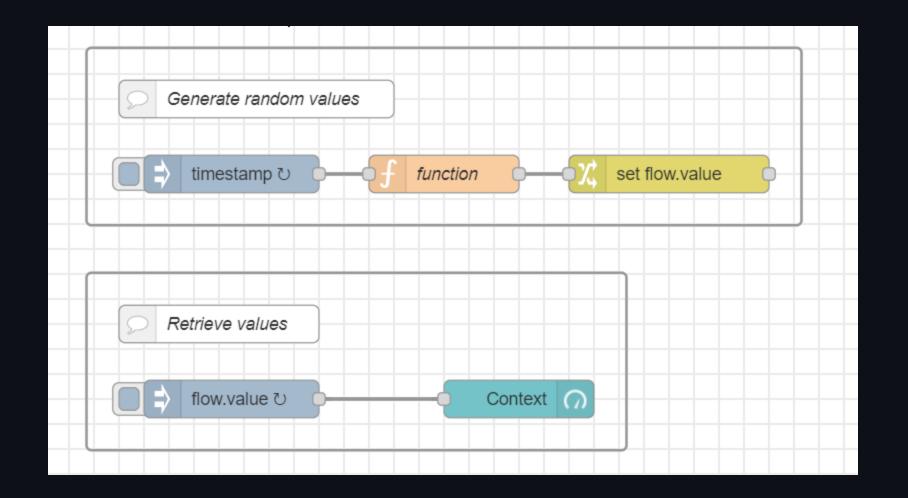
Context

Scope

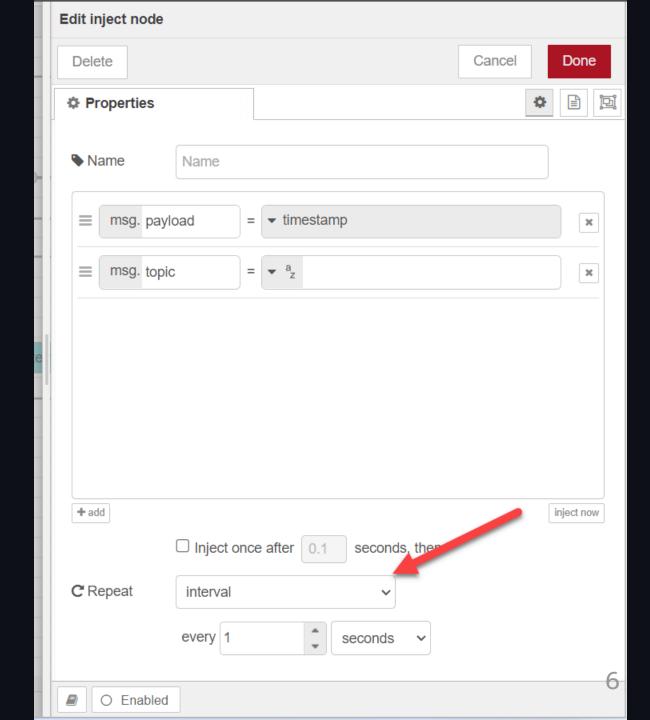
The scope of a particular context value.

- Node only visible to the node that set the value
- Flow visible to all nodes on the same flow (or tab in the editor)
- Global visible to all nodes

Use flow context to pass values



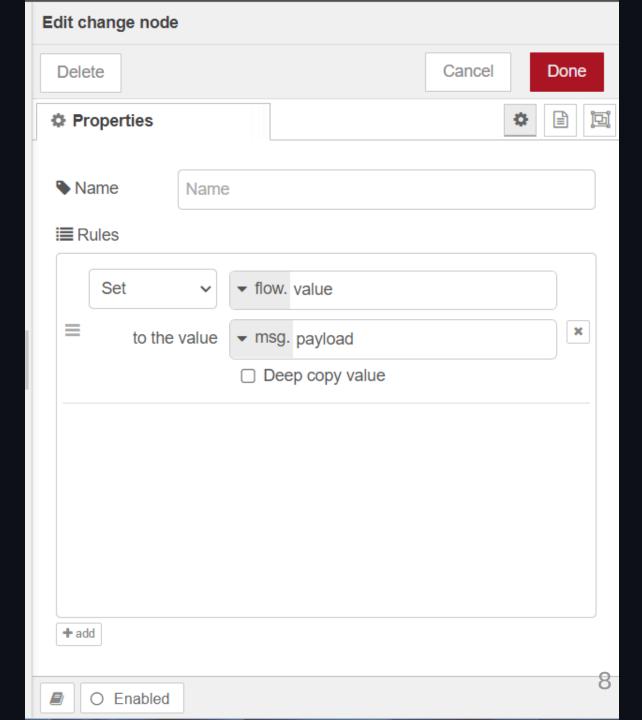
Upper inject node



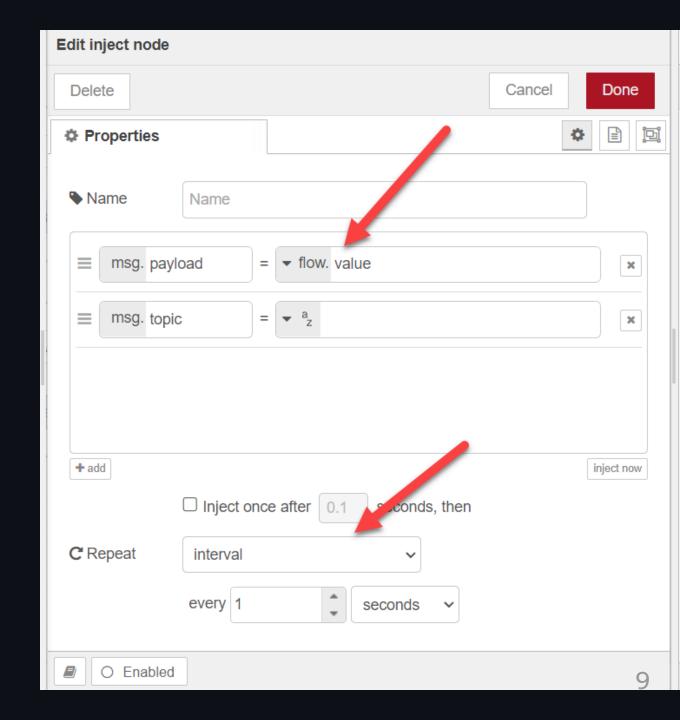
function node

```
msg.payload = Math.random();
return msg;
```

change node

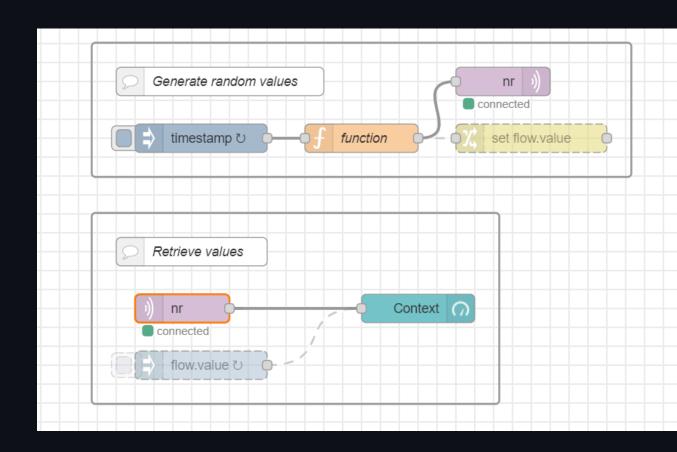


Lower inject node

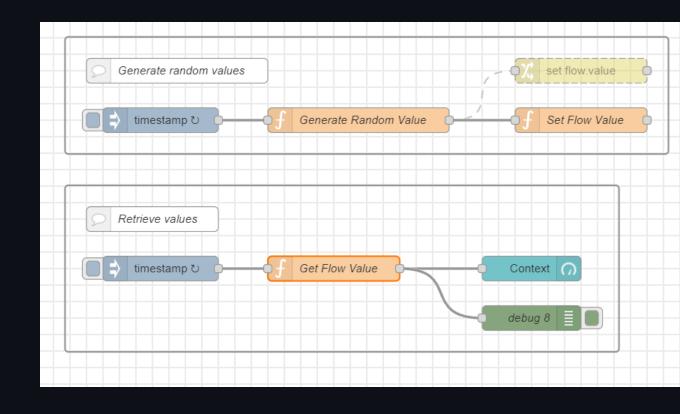


Side note

- You can use MQTT protocol to pass "context" information.
 - This is actually a better way.



Using code



Set Flow Value node

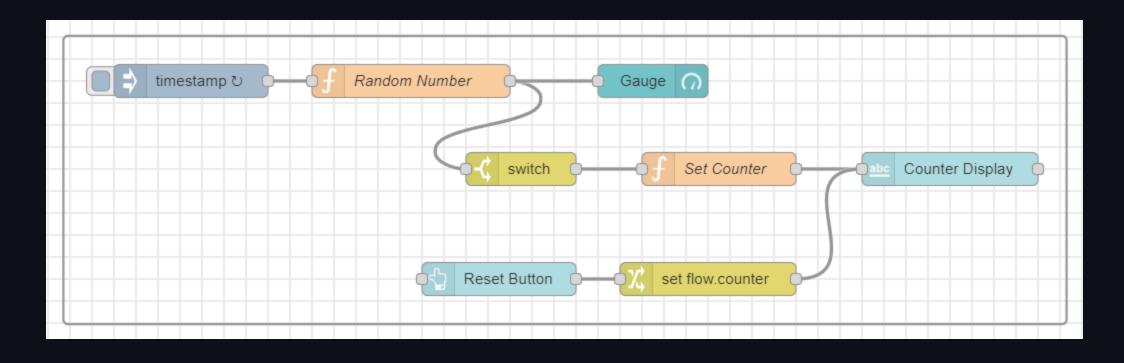
```
flow.set("value", msg.payload);
```

Get Flow Value node

```
const value = flow.get("value") ?? 0;
msg.payload = value;
return msg;
```

Counter with reset button

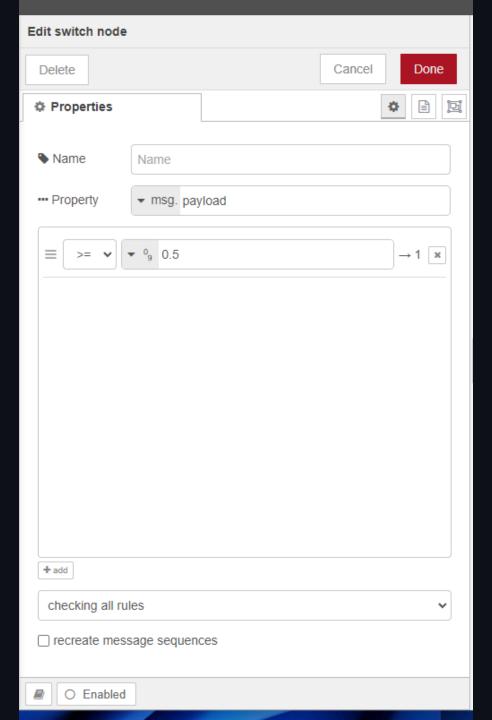
Flow



Random Number (function) node

```
msg.payload = Math.random();
return msg;
```

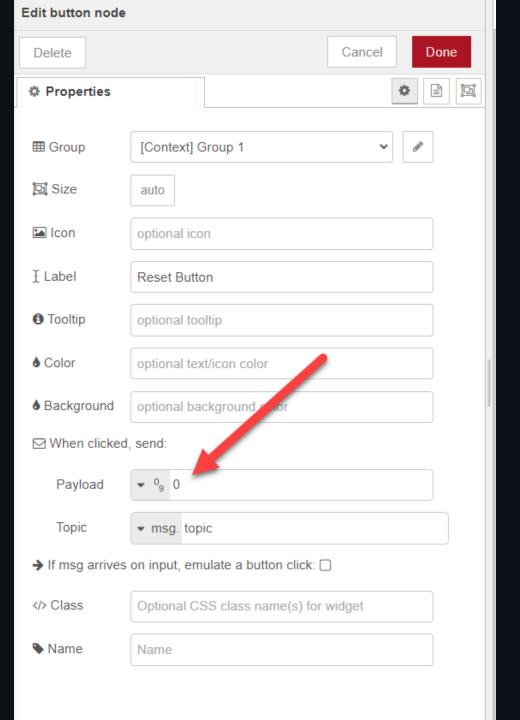
Switch node



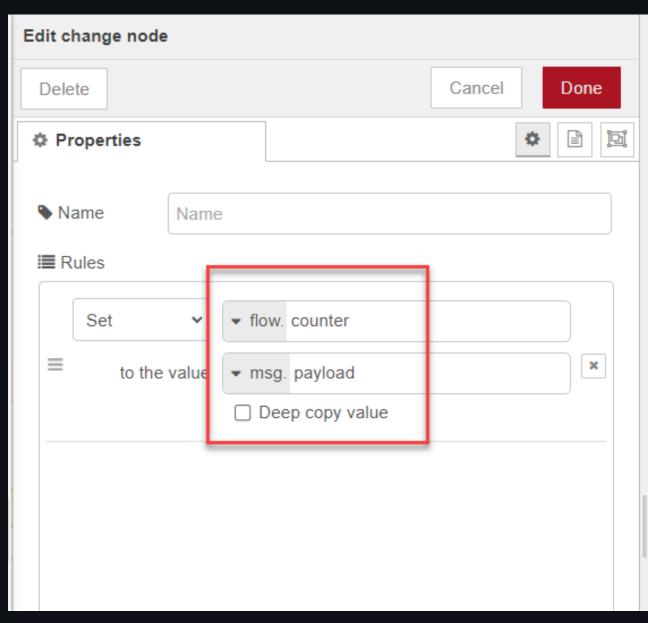
Set Counter (Function) node

```
const curCounter = flow.get("counter") ?? 0;
flow.set("counter", curCounter + 1);
msg.payload = curCounter + 1;
return msg;
```

button node

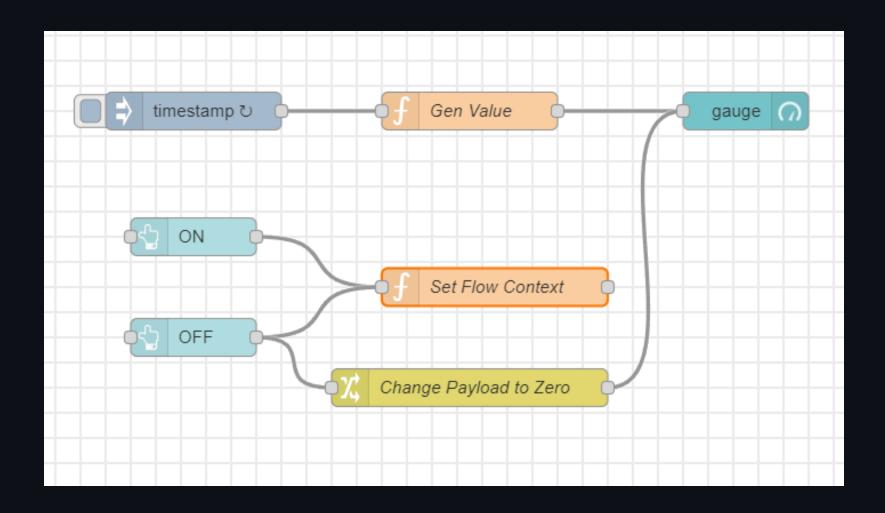


change node



Turning sensor display on and off

Flow



Gen Value **node**

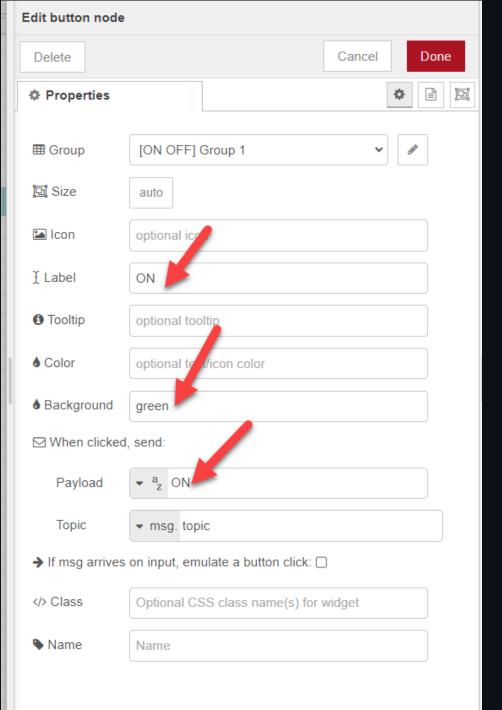
Testing

```
msg.payload = Math.random();
return msg;
```

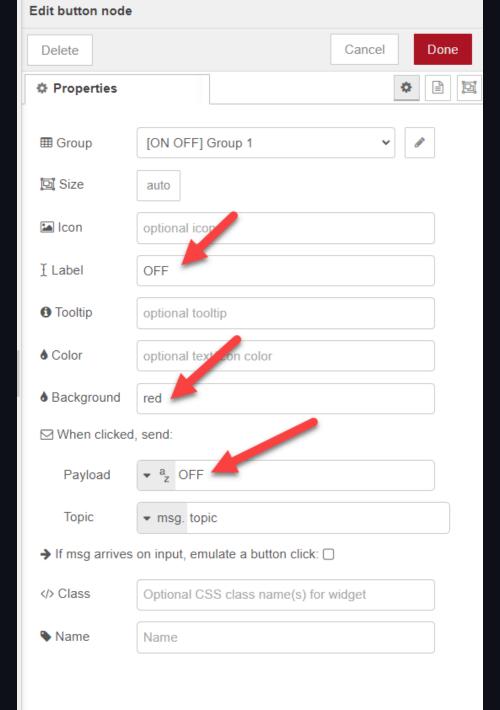
Actual

```
const status = flow.get("status") ?? "OFF";
if (status === "ON") {
  msg.payload = Math.random();
  return msg;
} else {
  // Do nothing for now.
}
```

ON button



OFF button



Change node

