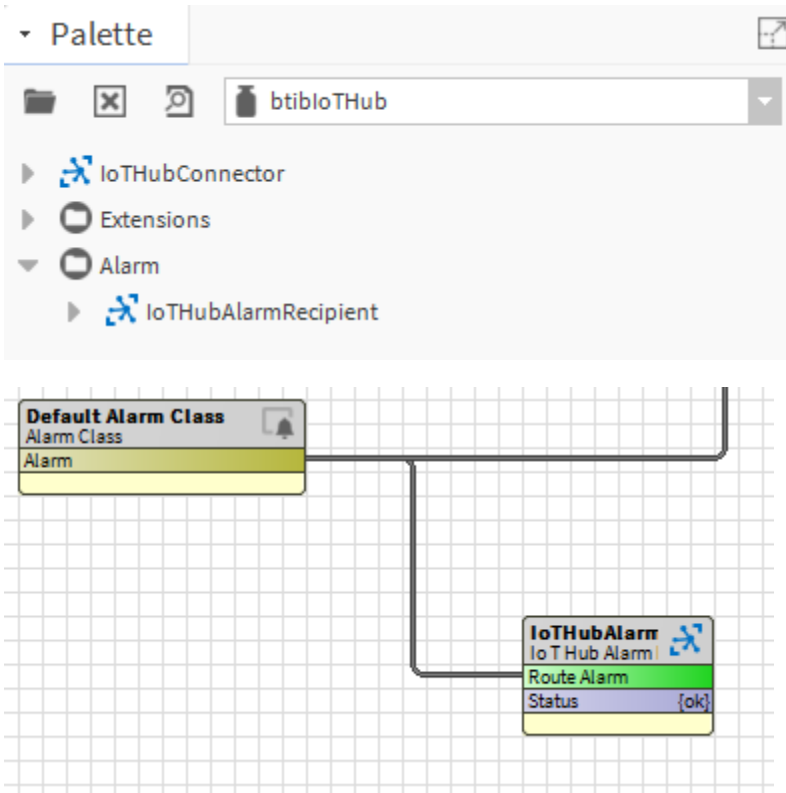


## Step 4 Send alarms to IoT Hub

You can easily transmit Niagara alarms in IoT Hub. IoT Hub doesn't have a native representation of alarms, this is why we use a dedicated devices which collect all the alarm events

### Adding the IoT Hub Alarm Recipient

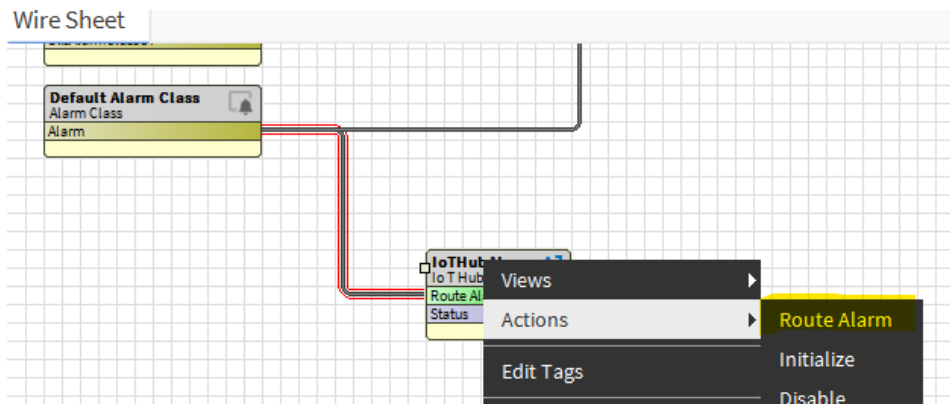
1. Open the btibIoT Hub palette and drag and drop the **IoT Hub Alarm Recipient** to the AlarmService.



2. Fill the optional alarm data you want to add to the document which will represent each alarm record. [Example: msgTxt, building, floor...](#)
3. Give a name to the device which will be dedicated to alarms in the destination field. (IoT Hub doesn't have a native representation of alarms, this is why we use a dedicated devices which collect all the alarm events).
4. Select the connector if you have multiple IoT Hub connectors in your station

Property Sheet	
IoT Hub Alarm Recipient (IoT T Hub Alarm Recipient)	
Time Range	12:00 AM - 12:00 AM
Days Of Week	<input checked="" type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tue <input checked="" type="checkbox"/> Wed <input checked="" type="checkbox"/> Thu <input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat
Transitions	<input checked="" type="checkbox"/> toOffnormal <input checked="" type="checkbox"/> toFault <input checked="" type="checkbox"/> toNormal <input checked="" type="checkbox"/> toAlert
Route Acks	<input checked="" type="radio"/> true
Status	{ok}
Fault Cause	
Enabled	<input checked="" type="radio"/> true
Optional Alarm Data	
Destination	alarms
Connector	IoT Hub Connector

5. To test right click on the recipient the route alarm.



6. The you should see the alarms on the alarms device created.

The screenshot shows the Azure IoT Hub interface. The breadcrumb navigation is 'Home > btibtest > Devices > alarms > Telemetry'. The left sidebar shows the 'Telemetry' tab selected. The main area displays 'Telemetry' with a 'Consumer group' of '\$Default'. Below this, there is a section 'Receiving events...' with a red arrow pointing to a JSON event. The event is as follows:

```
{
  "body": {
    "alarmTransition": "Offnormal",
    "ackby": "null",
    "ackDate": "1970-01-01T01:00:00.000+01:00",
    "alarmClass": "Default Alarm Class",
    "source": "",
    "priority": 0,
    "uid": "00000000-0000-0000-0000-000000000000",
    "ackState": "Unacked",
    "normalTime": "null",
    "lastUpdate": "2020-10-19T10:34:26.349+02:00",
    "sourceName": "null",
    "ackRequired": true,
    "sourceState": "Offnormal",
    "timestamp": "2020-10-19T10:34:26.349+02:00"
  },
  "enqueuedTime": "2020-10-19T12:43:04.757Z",
  "properties": {}
}
```

## Next Step

Step 5 Send commands from IoT Hub to Niagara