NetEase MQTT Interface

version 0.1

2018-8-13

Basic MQTT Topic Structure

/prefix/[boxid]/[direction]/[type]/[subtype]

- direction
 - command {% Cloud to box %}
 - edge {% Box to cloud %}
- type
 - o management
 - o livedata
 - o alarmdata
 - o historicdata
 - o logdata
 - o userdefine
- subtype

Management

Cloud query box model

```
[direction] = command

[type] = management

[subtype] = modelquery

topic = "/prefix/[boxid]/command/management/modelquery";

payload = {};
```

• Box feedback model

```
[direction] = edge
[type] = management
[subtype] = modeldata

topic = "/prefix/[boxid]/edge/management/modeldata";
```

```
payload = {
  id: "",
  name: "",
  edgeModel: EdgeModelSchema,
  extModel: ExtModelSchema
};
```

• Cloud set box model

```
[direction] = command

[type] = management

[subtype] = modelset

topic = "/prefix/[boxid]/command/management/modelset";

payload = ModelSetSchema;
```

• Box feedback modelset result

```
[direction] = edge
[type] = management
[subtype] = modelsetresult

topic = "/prefix/[boxid]/edge/management/modelsetresult";
```

```
payload = {
  result: "OK | Failure",
  errorInfo: "",
  errorCode: ""
};
```

• Cloud query single device status

```
[direction] = command
[type] = management
```

```
[subtype] = devicequery
```

```
topic = "/prefix/[boxid]/command/management/devicequery";
```

```
payload = {
  device: deviceName
};
```

• Box feedback / report single device status

```
[direction] = edge

[type] = management

[subtype] = devicedata

topic = "/prefix/[boxid]/edge/management/devicedata";

payload = {
    deviceName: DeviceStatusSchema
```

• Cloud query batch devices status

};

```
[direction] = command

[type] = management

[subtype] = devicesquery
```

```
topic = "/prefix/[boxid]/command/management/devicesquery";
```

```
payload = {
  devices: ["device1", "device2"]
};
```

• Box feedback / report batch devices status

```
[direction] = edge
[type] = management
```

```
[subtype] = devicesdata
```

```
topic = "/prefix/[boxid]/edge/management/devicesdata";
```

```
payload = {
  device1: DeviceStatusSchema,
  device2: DeviceStatusSchema,
  ...
};
```

Livedata

• Cloud query tag live data [direction] = command

```
[type] = livedata
[subtype] = tagname

topic = "/prefix/[boxid]/command/livedata/tagname";

payload = {};
```

Box feedback/report tag live data [direction] = edge

```
[type] = livedata

[subtype] = tagname

topic = "/prefix/[boxid]/edge/livedata/tagname";
```

```
payload = {
  value: 1000,
  timestamp: '',
  quality: ''
};
```

Alarmdata

• Cloud query alarm data/status [direction] = command

```
[type] = alarmdata

[subtype] = alarmname

topic = "/prefix/[boxid]/command/alarmdata/alarmname";

payload = {};
```

• Box feedback/report alarm data [direction] = edge

```
[type] = alarmdata

[subtype] = tagname

topic = "/prefix/[boxid]/edge/alarmdata/tagname";
```

```
payload = {
  text: "",
  value: "",
  triggerValue: "",
  timestamp: "",
  status: "come | go | acknowledge"
};
```

Historicdata

• Cloud query historic data [direction] = command

```
[type] = historicdata

[subtype] = historicname / alarmname

topic = "/prefix/[boxid]/command/historicdata/historicname";
```

```
payload = {
  begin: '',
  end: ''
};
```

• Box feedback/resend(after network restore) historic data [direction] = edge

```
[type] = historicdata
```

[subtype] = historicname / alarmname

```
topic = "/prefix/[boxid]/edge/historicdata/historicname";
```

```
payload = {
  value: 1000,
  timestamp: '',
  quality: '',
  total: 10000,
  count: 121
};
```

```
topic = "/prefix/[boxid]/edge/historicdata/alarmname";
```

```
payload = {
  text: "",
  value: "",
  triggerValue: "",
  timestamp: "",
  status: "come | go | acknowledge",
  total: 10000,
  count: 121
};
```

Q

- Q1: Cloud Command 流水号
 - Q1.1: feedback / report 是否需要区别
- Q2: Cloud端主动请求盒子数据的模式,逐条响应还是按发送模式响应
- Q3: Cloud App 数据请求,数据源是否全部都是来自于TSDB,是否有可能从盒子直接读取