RealTimeConnector

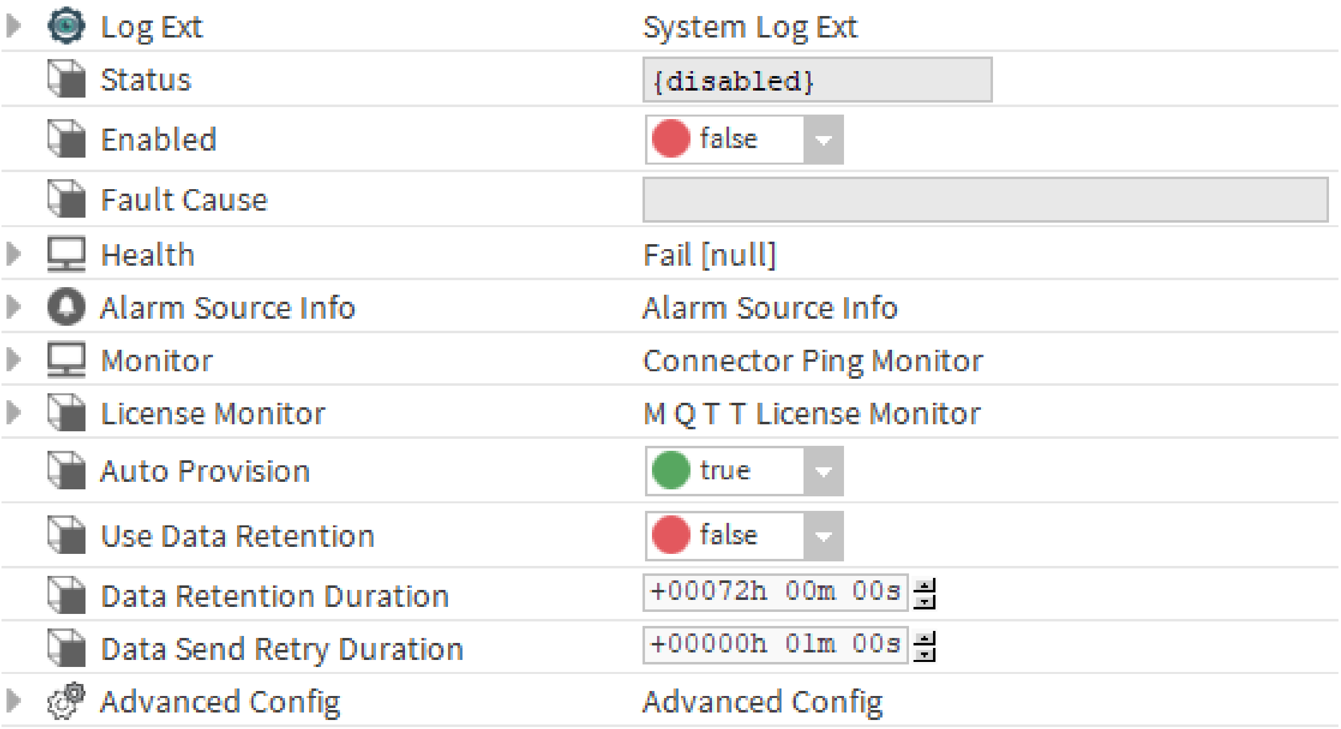
Description

The RealTimeConnector is the responsible for managing the connection to the remote service.

Implementation

- Drag and drop the RealTimeConnector from the palette (btibAWS, btibIotHub, etc) to **Services > Btib Service > External Connectors > Realtime Connectors.**
- Fill the adequate fields. Each RealTimeConnector will have its specific fields.
- Enable the connector. It is also possible to ping the Connector to check if it works.

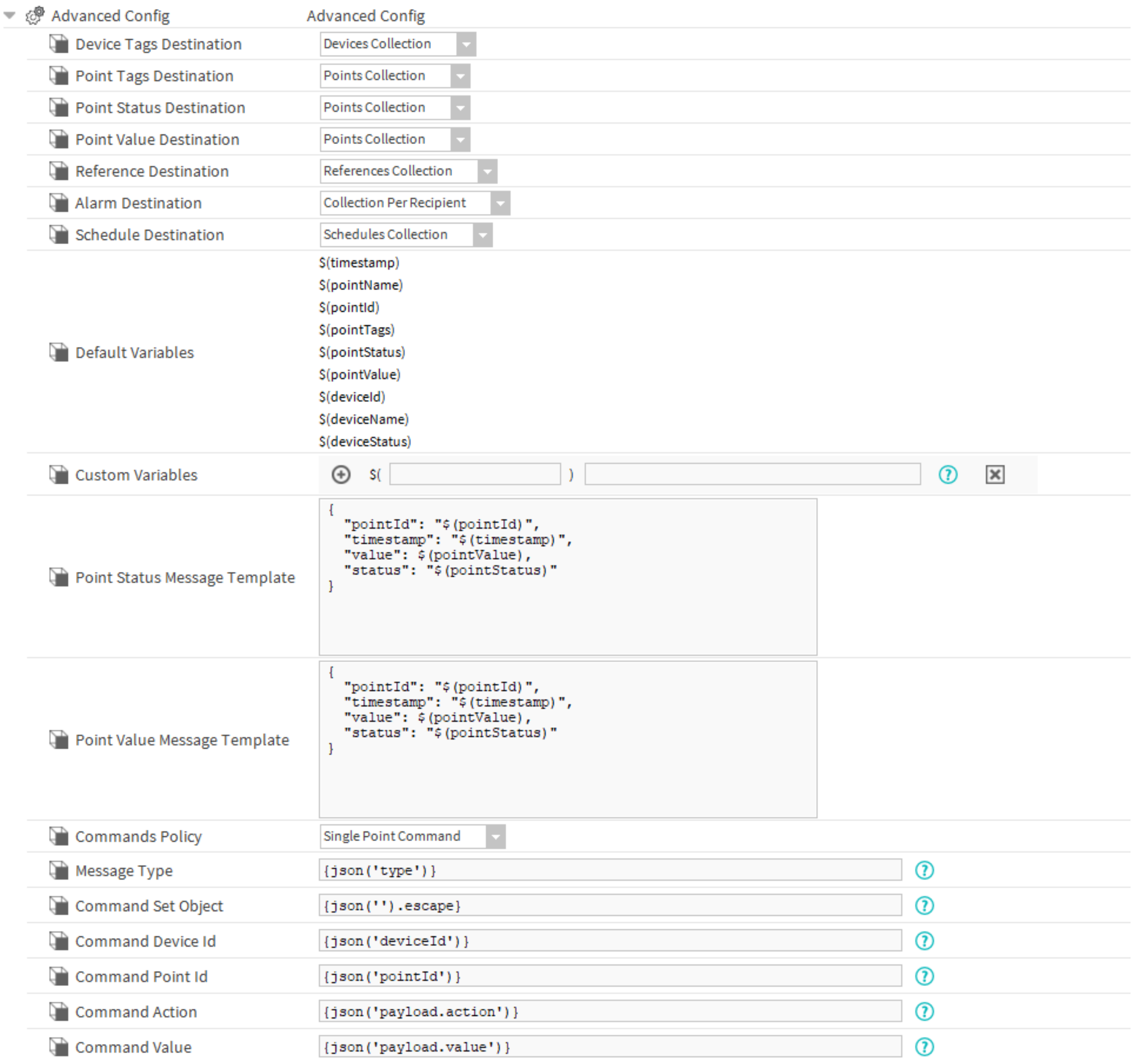
Properties



Log Ext	System Log Ext
Status	{disabled}
Enabled	● false
Fault Cause	
Health	Fail [null]
Alarm Source Info	Alarm Source Info
Monitor	Connector Ping Monitor
License Monitor	M Q T T License Monitor
Auto Provision	● true
Use Data Retention	● false
Data Retention Duration	+00072h 00m 00s
Data Send Retry Duration	+00000h 01m 00s
Advanced Config	Advanced Config

- *LogExt:* See LogExt.
- *Status :* Connection status.
- *Enabled :* Enable/Disable the component.
- *Fault Cause :* The error message status.
- *Health*: Status of the connector.
- *AlarmSourceInfo*: Allows to configure the alarm if there an error on ping.
- *Monitor*: allows to monitor the connector for problems. **Note:** The implementation of the ping and the alarm functionality in the monitor is connector-specific.
  - *Ping Enabled:* enable pinging when there's a problem.
  - *Ping Frequency:* the frequency at which to ping
  - *Alarm on Failure:* enable alarms when there's a failure
  - Startup Alarm Delay: the delay to startup the alarm
- *LicenseMonitor*: Component checking the license of the connector
- *Auto Provision*: Create and manage devices automatically.
- *Use Data Retention* : Enable data retention for this connector.
- *Data Retention Duration* : The duration of the Data Retention.
- *Data Send Retry Duration* : The amount of time to wait before retrying to send data.

Advanced Config



Advanced Config	Advanced Config
Device Tags Destination	Devices Collection
Point Tags Destination	Points Collection
Point Status Destination	Points Collection
Point Value Destination	Points Collection
Reference Destination	References Collection
Alarm Destination	Collection Per Recipient
Schedule Destination	Schedules Collection
Default Variables	$(timestamp) $(pointName) $(pointId) $(pointTags) $(pointStatus) $(pointValue) $(deviceId) $(deviceName) $(deviceStatus)
Custom Variables	⊕ $( )

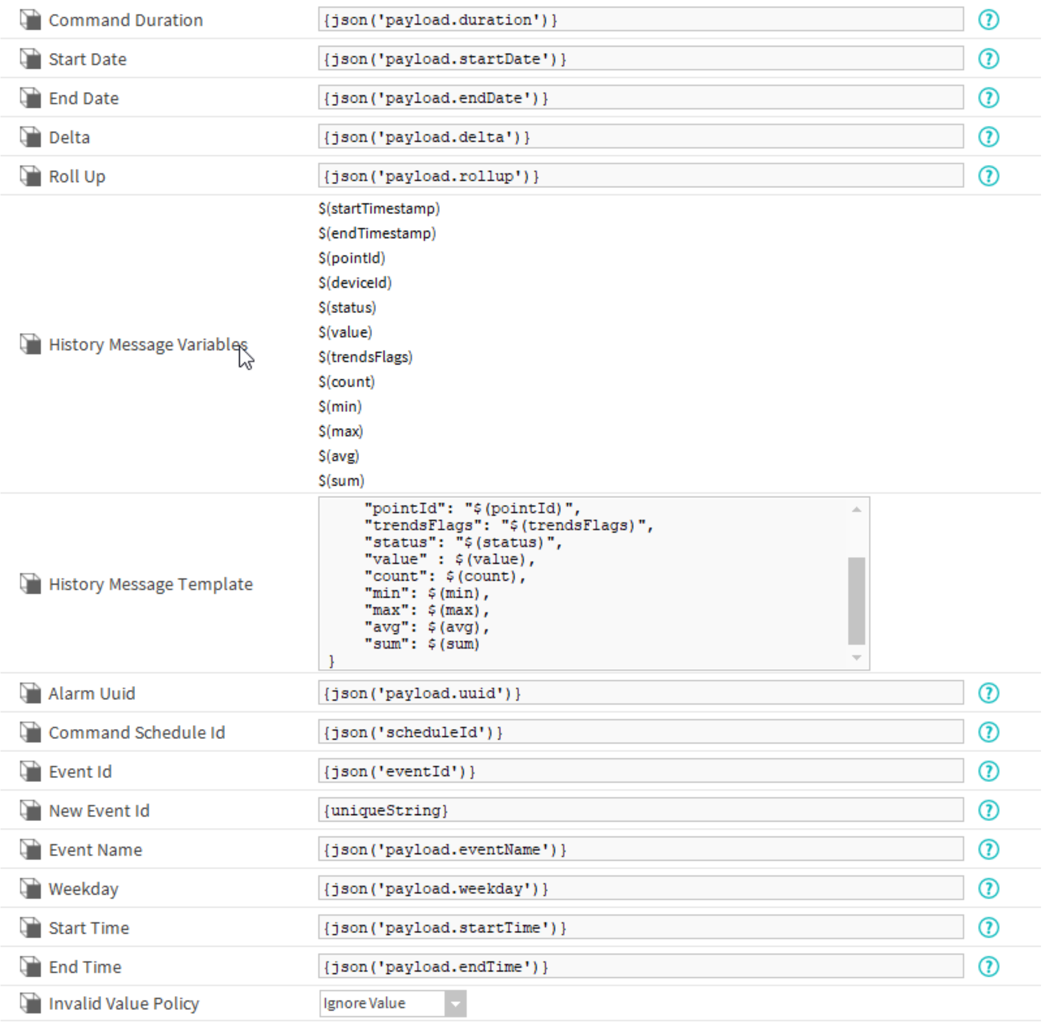
Point Status Message Template

```
{
  "pointId": "$(pointId)",
  "timestamp": "$(timestamp)",
  "value": $(pointValue),
  "status": "$(pointStatus)"
}
```

Point Value Message Template

```
{
  "pointId": "$(pointId)",
  "timestamp": "$(timestamp)",
  "value": $(pointValue),
  "status": "$(pointStatus)"
}
```

Commands Policy	Single Point Command
Message Type	{json('type')}
Command Set Object	{json('').escape}
Command Device Id	{json('deviceId')}
Command Point Id	{json('pointId')}
Command Action	{json('payload.action')}
Command Value	{json('payload.value')}

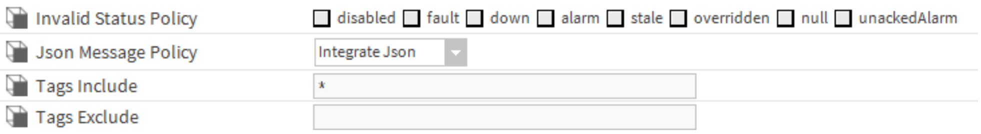


Command Duration	{json('payload.duration')}
Start Date	{json('payload.startDate')}
End Date	{json('payload.endDate')}
Delta	{json('payload.delta')}
Roll Up	{json('payload.rollup')}
History Message Variables	$(startTimestamp) $(endTimestamp) $(pointId) $(deviceId) $(status) $(value) $(trendsFlags) $(count) $(min) $(max) $(avg) $(sum)

History Message Template

```
    "pointId": "$(pointId)",
    "trendsFlags": "$(trendsFlags)",
    "status": "$(status)",
    "value" : $(value),
    "count": $(count),
    "min": $(min),
    "max": $(max),
    "avg": $(avg),
    "sum": $(sum)
}
```

Alarm Uuid	{json('payload.uuid')}
Command Schedule Id	{json('scheduleId')}
Event Id	{json('eventId')}
New Event Id	{uniqueString}
Event Name	{json('payload.eventName')}
Weekday	{json('payload.weekday')}
Start Time	{json('payload.startTime')}
End Time	{json('payload.endTime')}
Invalid Value Policy	Ignore Value



Invalid Status Policy	□ disabled □ fault □ down □ alarm □ stale □ overridden □ null □ unackedAlarm
Json Message Policy	Integrate Json
Tags Include	*
Tags Exclude	

- *DeviceTagsDestination:* The destination where device tags will be sent during the initialization.
- *PointTagsDestination:* The destination where point tags will be sent during the initialization.
- *PointStatusDestination:* The destination where the point status message will be sent.
- *PointValueDestination:* The destination where the point value message will be sent.
- *ReferenceDestination:* The destination where the reference message will be sent.
- *AlarmDestination:* The destination where the alarm messages will be sent via the alarm recipient associated to this connector.
- *ScheduleDestination:* The destination where the schedule messages will be sent.
- *DefaultVariables:* The default variables to be used by the messages template.
- *CustomVariables:* Set of user defined variables to be used by the messages template.
- *PointStatusMessage Template:* The status message template used to construct the message to be sent by the connector.
- *PointValueMessage Template:* The value message template used to construct the message to be sent by the connector.
- *CommandsPolicy:* The commands policy either single or multi message.
- *MessageType*: The type of the message (Default: POINT_ACTION).
- *CommandSetObject:* The json format that contains the commands if the command policy is multi message.
- *CommandDeviceId:* The sformat path to extract the device id from the external message.
- *CommandPointId:* The sformat path to extract the point id from the external message.
- *CommandAction:* The sformat path to extract the command action from the external message.
- *CommandValue:* The sformat path to extract the value from the external message.
- *CommandDuration:* The sformat path to extract the command duration in seconds from the external message.
- *StartDate*: Start timestamp of the history (Optional).
- *EndDate*: The end date for the history (Optional).
- *Delta*: Apply a delta for the history (Default: false).
- *RollUp*: Apply a rollup for the history (Optional).
- *HistoryMessageVariable*: Set of predefined variables to use in the history message template.
- *HistoryMessageTemplate*: The template message to use for the history message.
- *AlarmUUID*: The sformat path to extract the uuid.
- *CommandScheduleId:* The sformat path to extract the schedule id from the external message.

- EventId: The sformat path to extract the eventid from the external message. Will be used to target an event in update or delete commands
- NewEventId: The sformat path to extract the eventid from the external message. Will be used to create the id of a new event (create command)
- *Weekday:* The sformat path to extract the weekday from the external message.
- *StartTime:* The sformat path to extract the startTime from the external message.
- *EndTime:* The sformat path to extract the endTime from the external message.
- *InvalidValuePolicy:* What to do when an invalid value detected.
- *InvalidStatusPolicy:* Determines which out values will be filtered. Any point with a Status matching any Status in this slot won't be sent to the database.
- *JsonMessagePolicy:* The policy to use for value that contains json text.
- *TagsInclude:* Determines which tags will be included during the export of devices or points. If the value is "*", everything will be added.
- *TagsExclude:* Determines which tags will be excluded during the export of devices or points. Will be ignored if tagsInclude is filled.

Actions

- *Ping :* Ping the Service.

Fault Causes

- *Unable to connect :* Check your connection data, correct them if needed and ping the Connector again