

Scheduler Node

- By using the Scheduler node, you can configure a message flow to run at specified intervals of time, or at specified times on specified days.

Terminals :-

- ❖ Failure
- ❖ Out
- ❖ Catch

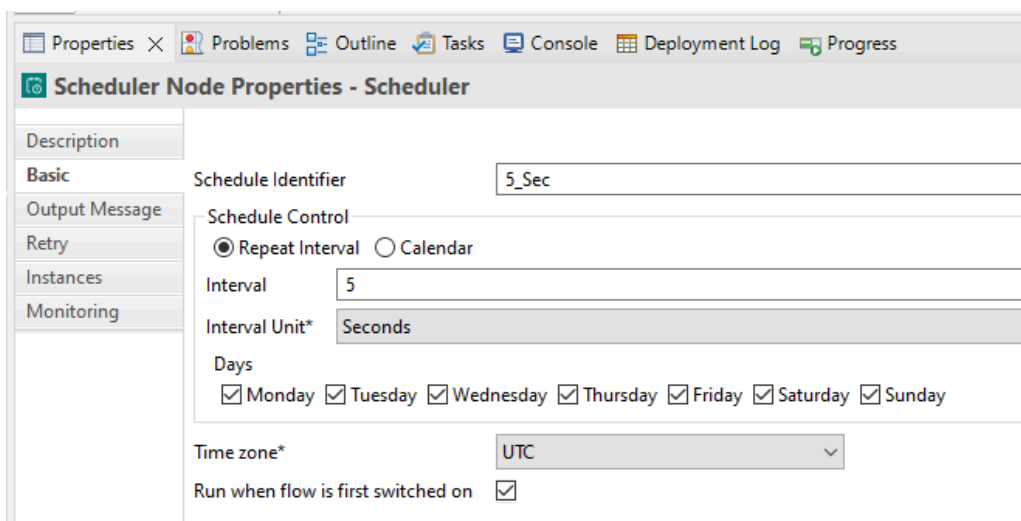
Procedure :-

Following steps to create a test case for a message flow node.

- On the Basic tab, type in a value for *Schedule identifier*. This value can be any combination of numbers and letters but if you choose a unique value, it helps to enable searching in the output.

The Scheduler node has two different modes of operation that you can select in the Basic tab. The available modes of operation are Repeat interval and Calendar.

1) Repeat interval



The screenshot shows the 'Scheduler Node Properties - Scheduler' dialog box. The 'Basic' tab is selected. The 'Schedule Identifier' field contains '5_Sec'. Under 'Schedule Control', the 'Repeat Interval' radio button is selected. The 'Interval' field is set to '5' and the 'Interval Unit*' is set to 'Seconds'. The 'Days' section has checkboxes for Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday, all of which are checked. The 'Time zone*' is set to 'UTC'. The 'Run when flow is first switched on' checkbox is also checked.

Field	Value
Schedule Identifier	5_Sec
Schedule Control	<input checked="" type="radio"/> Repeat Interval <input type="radio"/> Calendar
Interval	5
Interval Unit*	Seconds
Days	<input checked="" type="checkbox"/> Monday <input checked="" type="checkbox"/> Tuesday <input checked="" type="checkbox"/> Wednesday <input checked="" type="checkbox"/> Thursday <input checked="" type="checkbox"/> Friday <input checked="" type="checkbox"/> Saturday <input checked="" type="checkbox"/> Sunday
Time zone*	UTC
Run when flow is first switched on	<input checked="" type="checkbox"/>

2) Calendar

The screenshot shows the 'Scheduler Node Properties - Scheduler1' dialog box. The 'Basic' tab is selected. The 'Schedule Identifier' is '10_Sec'. Under 'Schedule Control', the 'Calendar' radio button is selected. The 'Run every' dropdown is set to 'Day', and the 'at' dropdowns are set to '05' and '30'. The 'Time zone*' dropdown is set to 'UTC'. The 'Run when flow is first switched on' checkbox is checked.

Properties	Value
Schedule Identifier	10_Sec
Schedule Control	<input type="radio"/> Repeat Interval <input checked="" type="radio"/> Calendar
Run every	Day
at	05 30
Time zone*	UTC
Run when flow is first switched on	<input checked="" type="checkbox"/>

- On the Basic tab, select the values for Repeat interval mode by completing the following steps:
 - Select Repeat interval.
 - Enter a value for *Interval*.
 - Select a value for the unit from the menu.
 - Schedule which days of the week to run the message flow, by selecting or deselecting the relevant checkboxes.

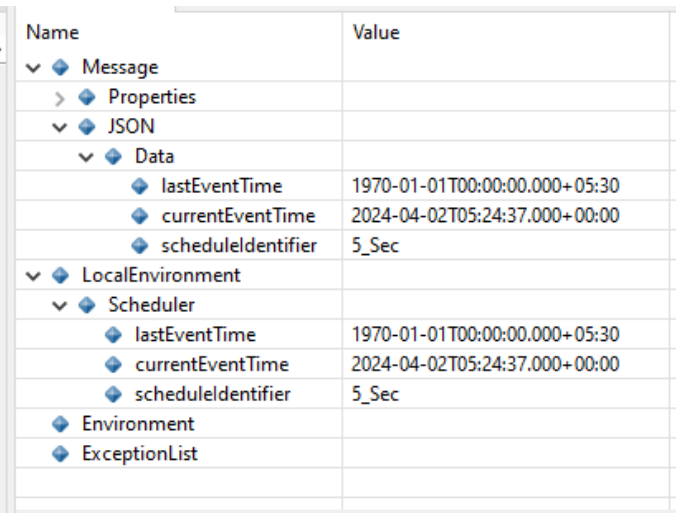
For example, you might select an interval of 7 minutes and select all the days except Tuesday, and leave Tuesday deselected. For these selections, if a 7-minute interval ends at 23:59 on Monday, the next 7-minute interval starts at 00:00 on Wednesday.

If you leave all the days deselected, the default behavior is that the message flow runs every day. This behavior is identical to the behavior when all the days are selected.
- On the Basic tab, select the values for Calendar mode by completing the following steps:
 - Select Calendar.

➤ Complete one of the following selections by selecting values from the menus:

- Run every hour. Use the drop-down menu to select the number of minutes past the hour.
- Run every day. Use the drop-down menus to select the time of day to run (hour and minutes past the hour).
- Run every week. Use the drop-down menus to select which day of the week to run and the time of day to run (hour and minutes past the hour).
- Run every month. Use the drop-down menus to select which day of the month to run and the time of day to run (hour and minutes past the hour).
- Run every year. Use the drop-down menus to select which date to run (for example 1 January) and the time of day to run (hour and minutes past the hour).

- On the Basic tab, select the *Time zone* from the menu.
- On the Output message tab, select an option for *Message output control* to determine the message format to propagate to the flow. All the message formats propagate a scheduler object in the local environment, which contains the following properties:
 - *lastEventTime*: A stringified timestamp with the format "%Y-%m-%d %H:%M:%S", which represents when the flow was last ran. The first time the flow runs, the value is 1970-01-01 00:00:00.
 - *currentEventTime*: The time for the current execution. The format is the same as for *lastEventTime*.
 - *scheduleIdentifier*: This property is only added if the *scheduleIdentifier* field is set. The value that is set in the field is propagated.



Name	Value
▼ Message	
> Properties	
▼ JSON	
▼ Data	
lastEventTime	1970-01-01T00:00:00.000+05:30
currentEventTime	2024-04-02T05:24:37.000+00:00
scheduleIdentifier	5_Sec
▼ LocalEnvironment	
▼ Scheduler	
lastEventTime	1970-01-01T00:00:00.000+05:30
currentEventTime	2024-04-02T05:24:37.000+00:00
scheduleIdentifier	5_Sec
Environment	
ExceptionList	