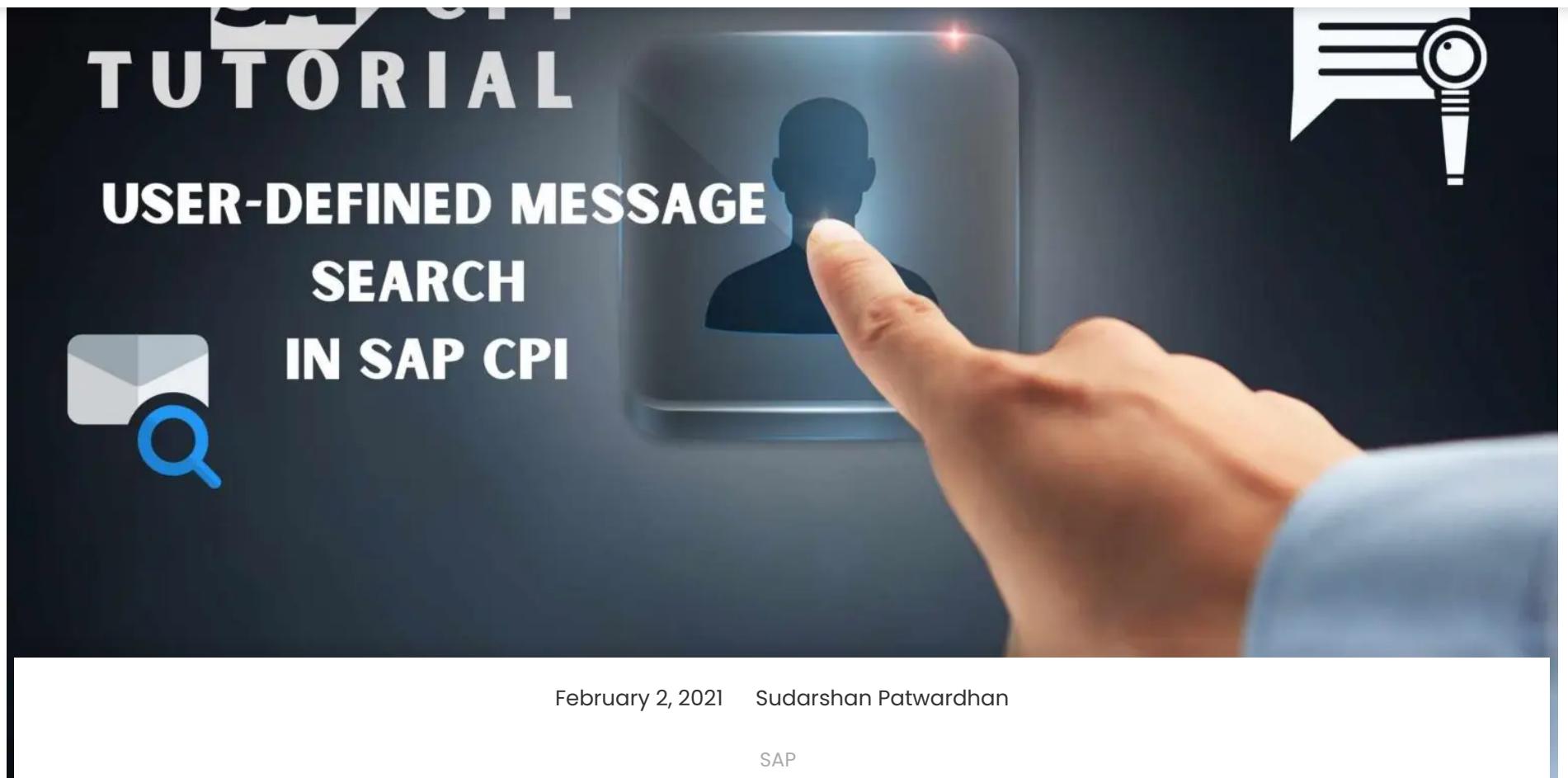


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February 2, 2021 Sudarshan Patwardhan

SAP

# User Defined Message Search in SAP CPI

## INTRODUCTION

User-Defined Message Search allows one to search a message based on the content in the incoming payload. This feature is not available in SAP CPI as a standard configuration. However, it can be achieved by using the two header parameters mentioned below.



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value is being taken. This usually is a constant.

## HYPOTHETICAL SCENARIO

The source is triggering 'n' messages where each message is differentiated by Order Number field in the payload as below

Message 1:

```
<Order_MT>
  <orderNumber>1</orderNumber>
  <supplierName>Walt1</supplierName>
  <productName>Timber1</productName>
</Order_MT>
```

Message 2:

```
<Order_MT>
  <orderNumber>2</orderNumber>
  <supplierName>Walt2</supplierName>
  <productName>Timber2</productName>
</Order_MT>
```

And so on...

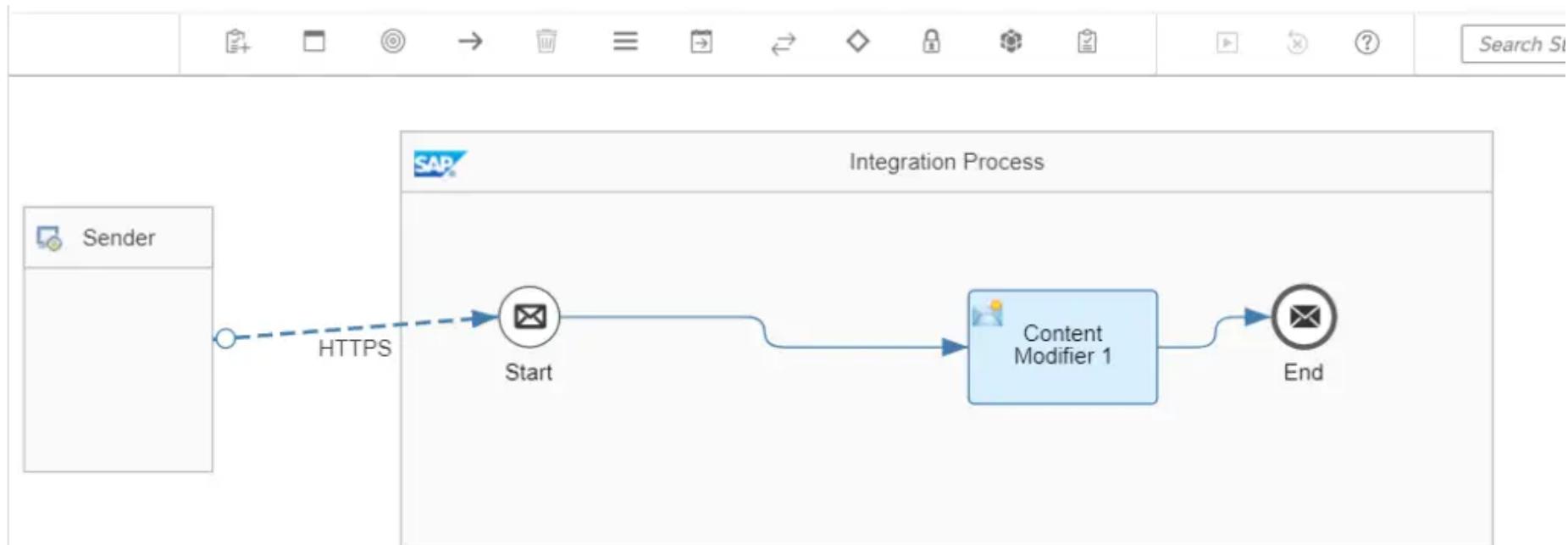
Say you want to Find a message with **Order Number = 5** in monitoring out of processed thousands of messages,

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1. SAP\_APPLICATION\_ID : //ordernumber

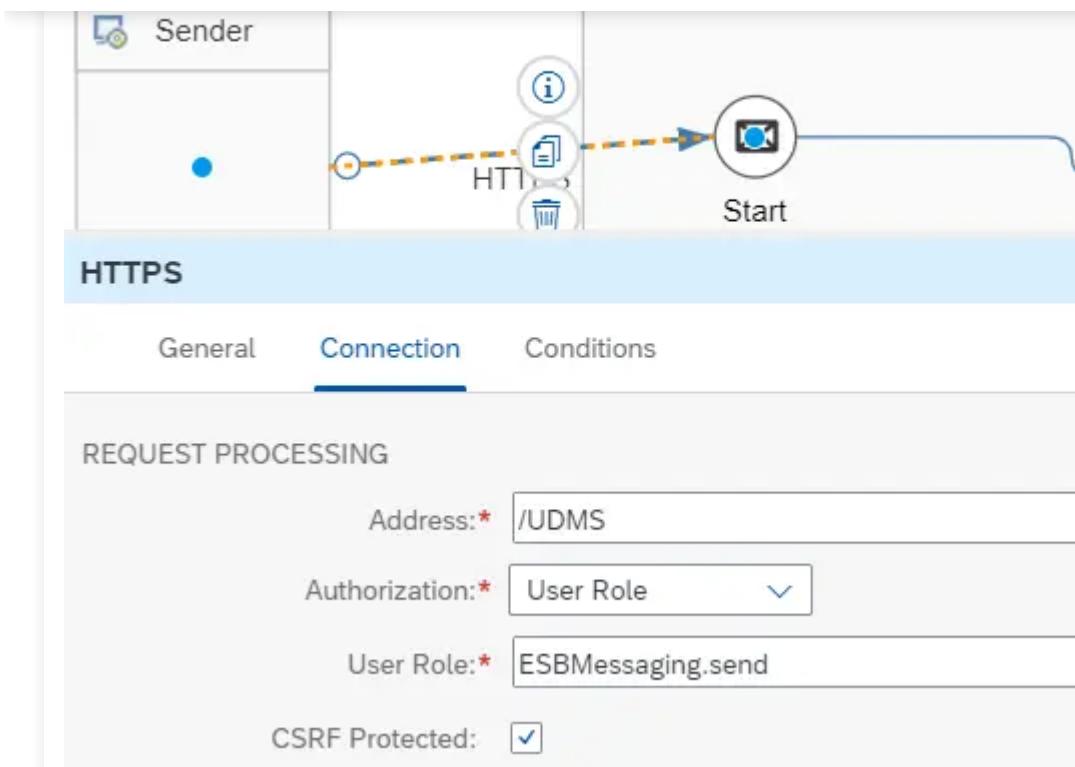
2. SAP\_MessageType : Order Number

Sample Integration Flow would look as below:



## EXECUTION STEPS

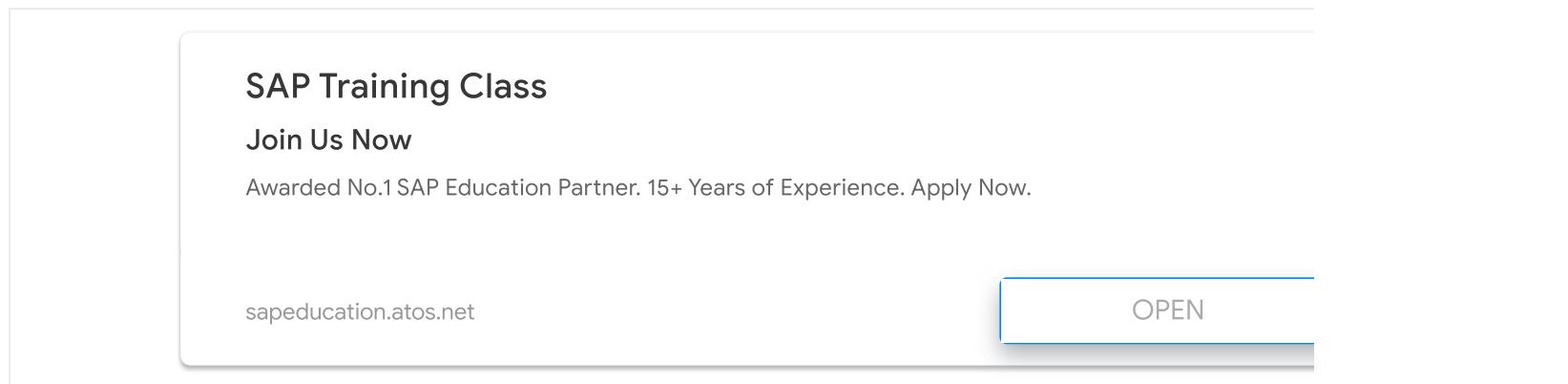
**Step 1:** Create an Integration Flow with **HTTPS** connection.

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The screenshot shows a process flow diagram and its corresponding configuration settings. At the top, a process flow is displayed with a 'Sender' node on the left, followed by a dashed arrow labeled 'HTTP' pointing to a 'Start' node on the right. Below this, a blue bar labeled 'HTTPS' contains three tabs: 'General', 'Connection' (which is selected), and 'Conditions'. Under the 'REQUEST PROCESSING' section, the following fields are configured:

- Address: \* /UDMS
- Authorization: \* User Role
- User Role: \* ESBMessaging.send
- CSRF Protected:

**Step 2:** Use a **Content Modifier** to add **SAP headers** as stated above.



The screenshot shows a promotional page for 'SAP Training Class'. The page features the text 'Join Us Now' and 'Awarded No.1 SAP Education Partner. 15+ Years of Experience. Apply Now.' Below this, the website address 'sapeducation.atos.net' is listed. To the right, there is a large blue rectangular button with the word 'OPEN' in white capital letters. On the far right edge of the screen, there is a vertical scroll bar with the text 'Back To Top' at the bottom.

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## Content Modifier

[General](#)
Message Header
[Exchange Property](#)
[Message Body](#)

## Headers:

Action	Name	Type	Data Type	Value	Default
<input type="checkbox"/> Create	SAP_MessageType	Constant		Order Number	
<input type="checkbox"/> Create	SAP_ApplicationID	XPath	java.lang.String	//orderNumber	<input type="button" value="Select"/>

**Step 3:** In **Message Body**, use  `${in.body}` to add an incoming message.

## Content Modifier

[General](#)
[Message Header](#)
[Exchange Property](#)
Message Body
Type: Body:  `${in.body}`

**Step 4:** Save and Deploy the flow.

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The screenshot shows the SAP CPI Integration Content Overview. On the left, there is a list of integration flows: Persisting (Integration Flow, Status Started), ConsumeFlow (Integration Flow, Status Started), and StoreFlow (Integration Flow, Status Started). On the right, details for the Persisting flow are shown: Deployed On: Jan 29, 2021, 14:55:43; ID: Persisting; Package: Trial1; Deployed By: sudpat123123@gmail.com; Version: 1.0.0. Below this, the Endpoints tab is selected, showing the endpoint URL: <https://52c8cftrial.it-cpitrial-rt.cfapps.us10.hana.ondemand.com/http/UDMS>.

**Step 6 :** Trigger some 10 messages from **POSTMAN** by changing the <orderNumber> value.

The screenshot shows a POSTMAN request configuration. The method is set to GET, the URL is <https://52c8cftrial.it-cpitrial-rt.cfapps.us10.hana.ondemand.com/http/UDMS>, and the 'Body' tab is selected. The body type is set to raw XML, and the XML content is:

```

1 <Order_MT>
2   <orderNumber>1</orderNumber>
3   <supplierName>Walt1</supplierName>
4   <productName>Timber1</productName>
5 </Order_MT>
6

```

**Step 7:** Check that all your messages are **successful** in Overview Window.

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Artifact Name	Status
Persisting	Completed
Jan 29, 2021, 15:07:19	10 ms
Persisting	Completed
Jan 29, 2021, 15:07:09	9 ms
Persisting	Completed
Jan 29, 2021, 15:06:59	10 ms
Persisting	Completed
Jan 29, 2021, 15:06:49	10 ms
Persisting	Completed
Jan 29, 2021, 15:06:40	11 ms
Persisting	Completed

**Step 8:** Now, In order to search a message with **Order Number =5**, you just have to type **5** in **the ID** search bar and hit enter as shown below. All the messages with Order Number = 5 in the incoming payload will be Displayed.

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[Use More Fields](#)

Messages (1)	« « 1 / 1 » » ⏪
Artifact Name <span style="float: right;">Status</span> <b>Persisting</b> <span style="float: right;">Completed</span> Jan 29, 2021, 15:06:30 <span style="float: right;">9 ms</span>	

**Persisting**

Last Updated at: Jan 29, 2021, 15:06:30

[Status](#)    [Properties](#)    [Logs](#)    [Artifact Details](#)

Message ID: AGAT1x5HdpPdgwb3gFdtF9qphI1X  
 Correlation ID: AGAT1x6jd6RM4SVtGVaoPR-NWrm3  
**Application Message ID:** 5  
**Application Message Type:** Order Number

[Logs](#)

[Open Text View](#)

This simple Custom step makes searching a message a lot easier.



A practical Example could include searching a message using Document Number in IDOC to any scenario.

## FINAL VERDICT :

 Menu**0 comments**Sort by **Newest**

Add a comment...

Facebook Comments Plugin

**0**  
SharesTagged **RecodeHive, SAP, SAP CPI, UDMS, User****RELATED POSTS**

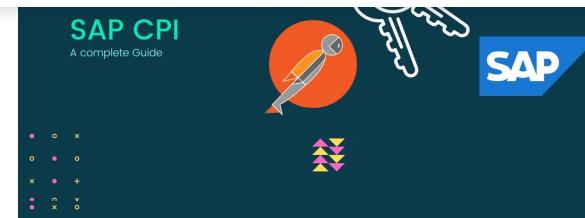
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SAP Tech

August 6, 2022 Sudarshan Patwardhan

## OAuth2 Client Credentials in SAP CPI

Tagged CPI , Learn ,  
MessageProcessingLogs , OAuth2 Client  
Credentials , RecodeHive , SAP , SAP CPI ,  
tech



SAP Tech

August 4, 2022 Sudarshan Patwardhan

## Bearer Token | Postman to SAP CPI

Tagged Authorization , Bearer , Postman ,  
RecodeHive , SAP CPI , Token



SAP Tech

March 10, 2022 Sudarshan Patwardhan

## OAuth 2.0 | Postman to SAP CPI

Tagged Authorization , OAuth 2.0 , Postman ,  
RecodeHive , SAP CPI

[◀ Data Store Operations in SAP CPI – Step by Step Guide](#)[Aggregator in SAP CPI : Tutorial ▶](#)

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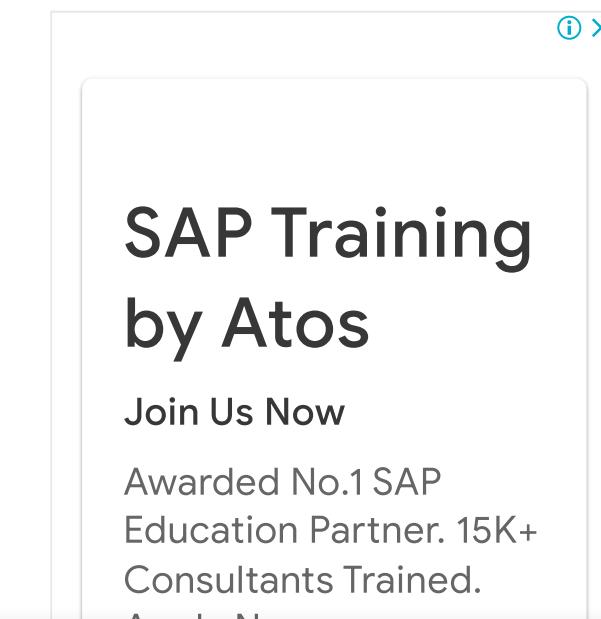
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The advertisement features a light gray background with a white rectangular overlay. In the top right corner of the overlay is a small blue circular icon containing a white 'i' symbol and a blue 'X' symbol. Below this, the text 'SAP Training' is displayed in a large, bold, black sans-serif font. Underneath it, 'by Atos' is written in a slightly smaller, bold, black sans-serif font. Further down, the text 'Join Us Now' appears in a bold, black sans-serif font. At the bottom, there is a paragraph of text: 'Awarded No.1 SAP Education Partner. 15K+ Consultants Trained.' Below this paragraph is a blue button with the text 'Apply Now!' in white.

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