

Send and Retrieve Microsoft Teams Chat

Version 1.0

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Usage guidelines and Specific Instructions:

- **Document Flow-** The flow of the document is generic. Specific changes to the flow will be required to be made by the client team to suit the client context.
- **Document Content-** The content explains the technical specification in a generic manner. Specific changes are required to be made to meet client requirements.
- **Section 1 -** The overall requirement summary, General technical Information, assumptions, dependencies, and messages volume details need to be documented as a part of this section.
- **Section 2 –** This section caters to the detailed functional requirement. The technical flow diagram and description are to be compulsorily designed and documented here. This should also include each processing step details, Exception handling, Message transformation and value mapping details.
- **Section 3 –** Finer details like Tenant Database area requirement like Data Store, variables and JMS queues requirement and specify the transport details.
- **Section 4 -** The section needs to cover all the key business test conditions and assembly test conditions that the enhancement must satisfy.
- **Section 5 –** All issues that have cropped up so far and their present status are to be highlighted in this section.

Revision History

Version No.	Change Date	Author	Revision Short Description	ITSM Ticket No
1.0	21 st Jul 2025	Yogesh Wadakar	Document prepared	

Other Related Documents

Related Document	Comment

Document Approvals for all changes

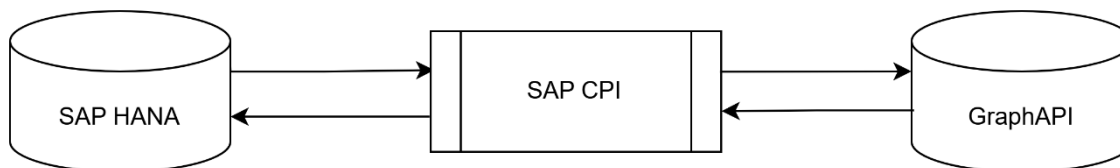
Version No.	Author Name	Approver Name	Approver Role	Approve Date
1.0	Yogesh Wadakar	Krishna Kumar	Delivery Lead	22 nd Jul 2025

Contents

1. DEVELOPMENT OVERVIEW	5
1.1 REQUIREMENTS SUMMARY WITH PROCESS FLOW DIAGRAM	5
1.2 CLOUD INTEGRATION – GENERAL TECHNICAL DETAILS	5
1.3 ASSUMPTIONS	5
1.4 MESSAGES VOLUME.....	6
1.5 MESSAGES ARCHIVAL REQUIREMENT	6
1.6 INTEGRATION FLOW /PROCESS MODEL EXECUTION DETAILS	7
1.7 NAMING CONVENTION GUIDELINES DETAILS.....	8
1.8 SECURITY, INTEGRITY, AND CONTROLS (SYSTEMS AUTHENTICATION DETAILS)	8
2 DETAILED TECHNICAL SPECIFICATIONS.....	9
2.1 INTEGRATION FLOW / PROCESS MODEL FLOW DIAGRAM INCLUDING ALL SUB PROCESSES AND DEPENDENT INTEGRATION FLOWS	9
2.2 TECHNICAL FLOW DESCRIPTION FOR EACH INTEGRATION PROCESS MODEL WISE	9
2.3 CHANNELS CONFIGURATIONS.....	9
2.4 EXTERNALIZATION (CONFIGURATION).....	10
3 TESTING REQUIREMENTS	11
3.1 TEST BODY.....	9
3.2 KEY UNIT/ASSEMBLY TEST CONDITIONS	11

1. Development Overview

1.1 Requirements Summary with Process flow diagram



Using this integration, we are sending and retrieving teams messages. We use the chat ID to send messages to a specific user, and the same ID is used to read the chat messages.

1.2 Cloud Integration – General Technical Details

Parameter	Description
Integration Scenario Technical Description	This integration used to send and retrieve message from Microsoft teams to SAP HANA.
Business Benefits	Help to communicate through teams.
Process Owner	Krishna Kumar
Technical Owner	Krishna Kumar
Systems/Applications Involved	HANA 2.0
Integration Package Technical Name	MicrosoftTeamsIntegrationwithSAPHANA
Integration Package Name	Microsoft Teams Integration with SAPHANA
Integration Flow Technical name	Microsoft_Teams_Chat
Integration Flow Name	Send-Retrieve Microsoft Teams Chat

1.3 Assumptions

The sender will send the correct chat ID to send the message.

1.4 Messages Volume

Parameter	Description
Total Number of Messages per day	As per requested.
No of Messages per single Iflow/Process model execution	Single
Per message size in Bytes	As per body

1.5 Messages Archival requirement

1. Messages Archival required? YES No

2. If YES to question 1:

a. How long messages to be save in Archived area? _____ days

b. Please specify reason / explain the need for these data required? Please check all that applies.

Legal requirement:
Explain: _____

Business
Explain: _____

Tax
Explain: _____

Audit
Explain: _____

Others: Specify _____
Explain: _____

1.6 Integration Flow /process model Execution Details

Data Source/sender System:	Microsoft Teams
Data Target /Receiver System:	SAP HANA 2.0
Reference system for Direction below	Either sender or Receiver system mentioned above
Direction (With respect to Source/sender system)	<input checked="" type="checkbox"/> Inbound Interface data flows inbound to Reference system <input checked="" type="checkbox"/> Outbound Interface data flows outbound from Reference system <input type="checkbox"/> Other Specify: <input type="text"/>
Interface Type	<input type="checkbox"/> Batch <input type="checkbox"/> Near Real-Time <input checked="" type="checkbox"/> Real-Time <input type="checkbox"/> File Upload <input type="checkbox"/> Other
Interface Frequency	<input type="checkbox"/> Hourly Details: <input type="text"/> <input type="checkbox"/> Daily Details: <input type="text"/> <input type="checkbox"/> Weekly Details: <input type="text"/> <input type="checkbox"/> Monthly Details: <input type="text"/> <input type="checkbox"/> Quarterly Details: <input type="text"/> <input type="checkbox"/> Yearly Details: <input type="text"/> <input checked="" type="checkbox"/> On-Demand How often: As per request. <input type="checkbox"/> Other Specify: <input type="text"/>
Type of Records Sent	<input type="checkbox"/> Full record load Send all records every time interface is executed <input type="checkbox"/> Delta full records Only send records where one or more fields have changed since previous execution <input checked="" type="checkbox"/> Delta records Only send fields (and keys) that changed since previous interface execution <input type="checkbox"/> Other Specify: <input type="text"/>

Quality of Legacy Data	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
Complexity of Legacy Data	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor
Attachments	<input type="checkbox"/> YES Specify: type and number of attachments <input checked="" type="checkbox"/> NO <input type="checkbox"/> Other Specify:

1.7 Naming Convention Guidelines Details

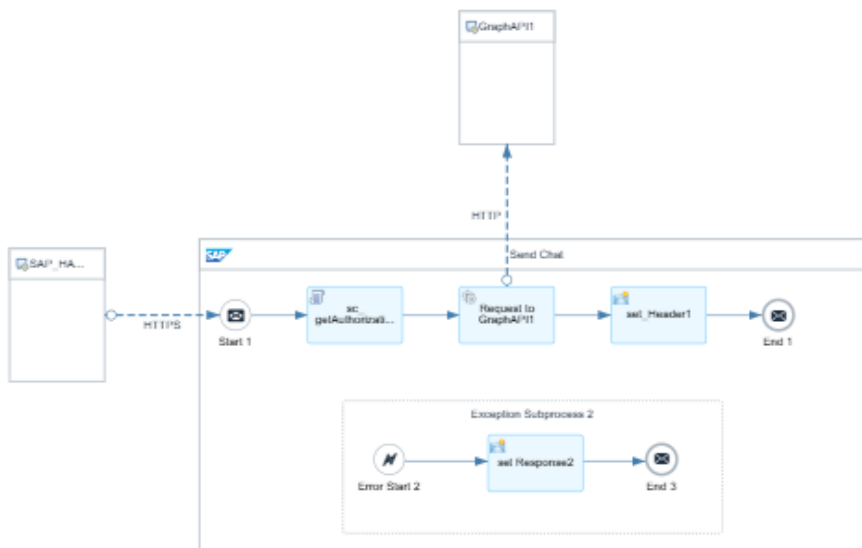
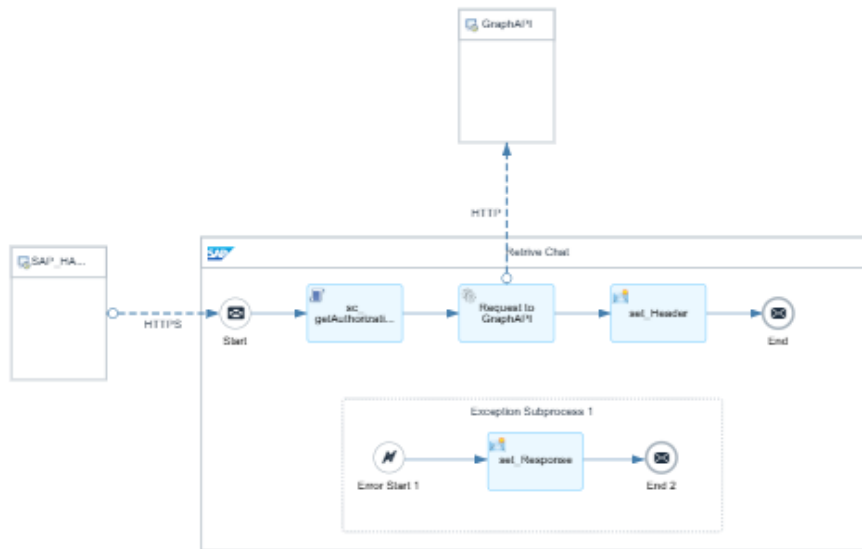
- a. Name of the package – 120 characters (Flexible based the involved product names)
- b. short text of the package – 120 characters
- c. Description of the package – 1-3 paragraphs
- d. Name of the Artifact – 80 characters
- e. Integration Flow (Artifact) Description (Short Text): 120 Characters

1.8 Security, Integrity, and Controls (systems Authentication details)

System	Authentication Method	Cloud Integration (Security Artifact)	Type of Security Artifact	Version No	Created By	Status
Graph API	OAuth2 Authorization	AzureCerdential with scope of https://graph.microsoft.com /Chat.ReadWrite	OAuth2 Authorization Code (Microsoft 365)	1.0	-	Deployed

2 Detailed Technical Specifications

2.1 Integration Flow/Process Model Flow Diagram including all sub processes and dependent Integration Flows



2.2 Technical Flow Description for each Integration Process model wise

To send a message, the sender will send the message body in JSON format along with the chat ID(<chat-id>/messages). Using OAuth credentials, a Groovy script will retrieve the token, add it to the Authorization header, and send the request to the Graph API.

To retrieve messages, the sender will send a GET request with the chat ID(<chat-id>/messages). Using OAuth credentials, a Groovy script will retrieve the token, add it to the Authorization header, and send the GET request to the Graph API.

2.3 Channels Configurations

Step ID	request system	Adapter Type	Security Artifact/Authentication	Trigger details (End points, HTTP method, file name, etc..)
Sender	SAP HANA	HTTPS	Bearer Token	Get/Post <Endpoint Address>
Receiver	Microsoft	HTTP	OAuth2 Authorization Code (Microsoft 365)	Get/Post <graphAPI>

2.4 Externalization (Configuration)

Parameter	Value
Endpoint URL	Enter endpoint address as per naming convention.
graphAPI	Graph API.

3 Testing Requirements

3.1 Test Body

Retrieve Chat message: Get - /ms/getchat/<chat-id>/messages

Send Chat message: Post - /ms/sendchat/<chat-id>/messages

```
{
  "body": {
    "content": "Hello world"
  }
}
```

3.2 Key Unit/Assembly Test Conditions

Unit Test Log						
Test Objective						
Step No.	Date	Description	Expected Output/Results	Actual Output/Results	Requirement ID	Sign-off
1	21 st Jul 2025	We send a team's message to recipient.	Recipient will get team's message.	Recipient got the team's message.		Tested successfully.
Notes	1					