SAP Emarsys Starter Pack March 2023 English

Cloud Integration Starter Pack for Integration with SAP Emarsys (Sample - Contact Replication)



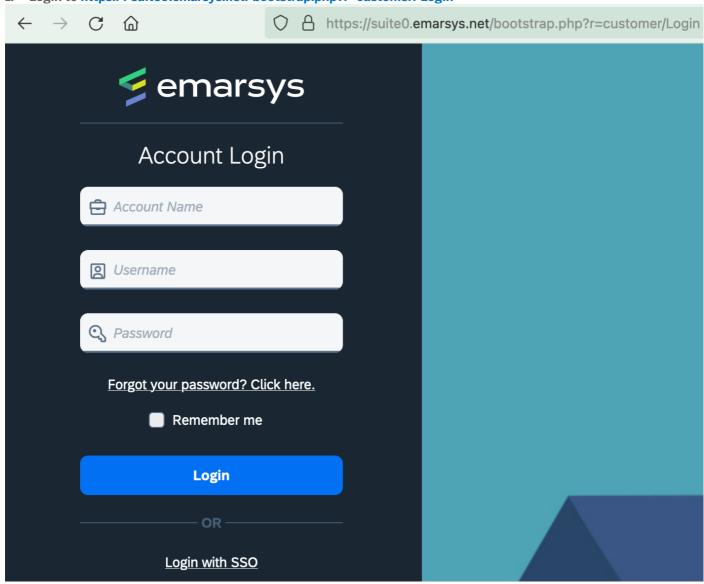
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1 Prerequisites

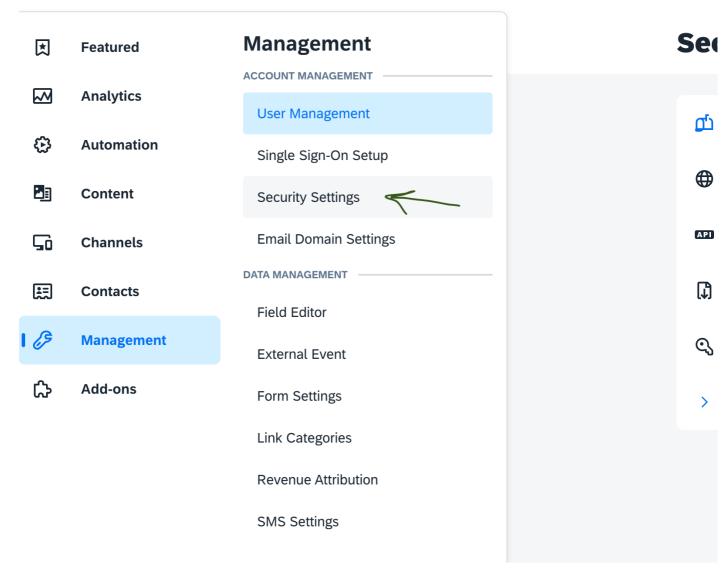
SAP Emarsys Setup

1. Login to https://suite0.emarsys.net/bootstrap.php?r=customer/Login



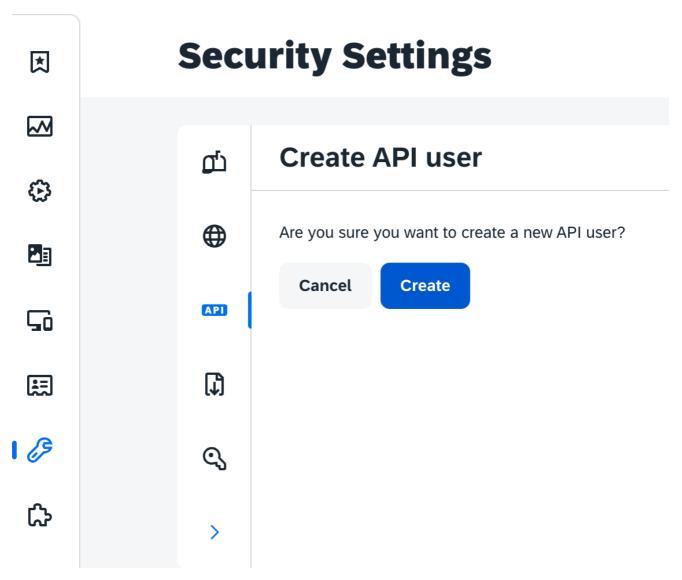
2. Navigate to Management -> Security Settings (you need to have Administrator or Account Owner right)





3. From Security Settings list choose API users





^{4.} After pressing Create, the API user will be created.

IMPORTANT: Please note down the Username and Secret as the secret will not be visible in the future.







Security Settings







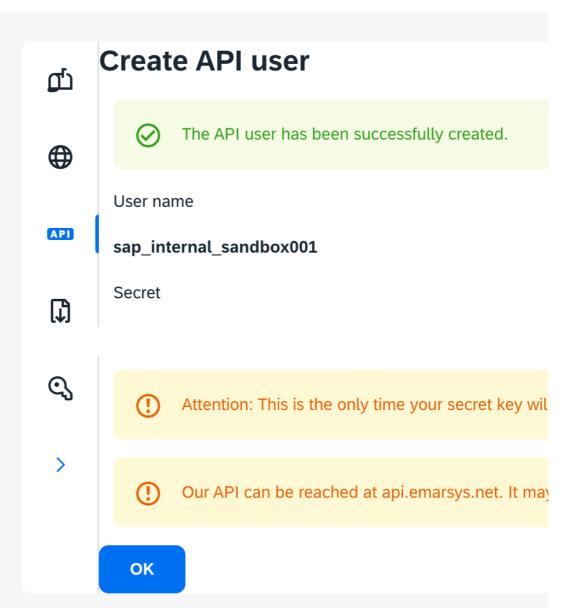












2 Documentation

This guide illustrates the necessary steps for setting up an SAP Emarsys System user and configuring an integration flow to create and read a contact via Emarsys API.

Authentication

SAP Emarsys API uses WSSE authentication over SSL to keep the data secure. WSSE authentication is not a standard HTTP authentication mechanism. So, it needs to get generated and passed in as a custom HTTP header (X-WSSE) header within each HTTP request. The header generated from the created username and secret in SAP Emarsys.

Username Token: Indicates that the authentication method of WSSE is token-based.

Username

Nonce: A random value ensuring that the request is unique, so it cannot be replicated by any other unknown party. This string is always 16 bytes long and must be represented as a 32-character hexadecimal value.

All the above-mentioned elements are concatenated into a single line string and then assigned to X-WSSE HTTP header. "Username Token Username=\"\${username}\", PasswordDigest=\"\${passwordDigest}\", Nonce=\"\${nonce}\",

Sample Code:

Created=\"\${created}\"";

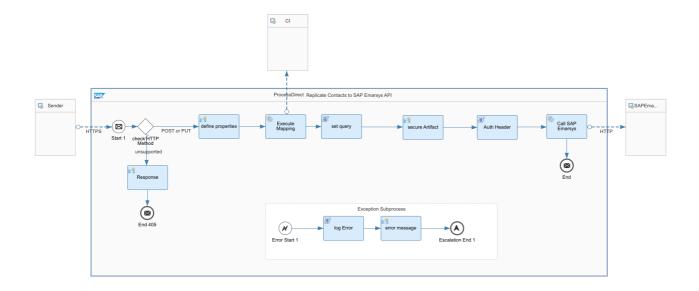
```
• • •
def Message XWSSEHeader(Message message) {
       // * Created. The ISO-8601 timestamp marking when Nonce was created.
// * PasswordDigest. A SHA-1 digest of the Nonce, Created timestamp, and the password
       byte[] nonceBytes = new byte[16];
new Random().nextBytes(nonceBytes);
       //Timestamp - Get the current timestamp in ISO 8601 format.
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd'T'HH:mm:ssZ");
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
       def timestamp = sdf.format(new Date())
       //Get the Service Instance of the SecureStoreService API
def service = ITApiFactory.getService(SecureStoreService.class, null);
       def credential = service.getUserCredential(artifactAlias);
//Read the User Name or password
       byte[] passwordDigestSHA1 = passwordDigestAlg.digest(passwordDigest.getBytes("UTF-8"));
def passwordDigestSHA1Res = new BigInteger(1, passwordDigestSHA1).toString(16);
def passwordDigestShA1Base64 = passwordDigestSHA1Res.bytes.encodeBase64().toString();
       message.setProperty("passwordDigest", passwordDigestshalBase64);
       //X-WSSE Header
       def map = message.getHeaders();
message.setHeader("X-WSSE", headerValue);
       return message
```

Creating the Contact:

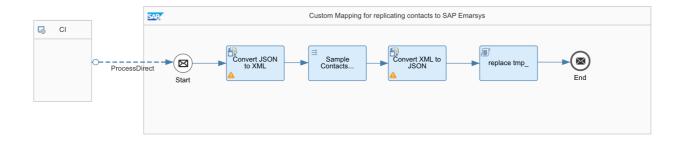
After creating the authentication token, the Integration Flow creates a contact using REST API in JSON format: https://api.emarsys.net/api/v2/contact.

Once contact is created response is sent back to the source system

iFlow - Replicate Contacts to SAP Emarsys API handles the authentication mechanism as called below Sub Flow - **Custom Mapping for replicating Contacts to SAP Emarsys** via Process Direct adapter for creating/overriding the mapping as per requirement.



iFlow 1: Replicate Contacts to SAP Emarsys API



iFlow 1: Custom Mapping for replicating Contacts to SAP Emarsys

3 Configuration steps on SAP Cloud Integration

To test the Integration Flow, the following parameters should be configured:

Configure "Replicate Contacts to SAP Emarsys API"



Property	Value
securityArtifact	Credential deployment w/ username & secret of the SAP Emarsys API user
PUT Create if not exist (0/1)	If set to 1, creates a new contact if it does not exist yet

Adapter Configurations

Configure "Replicate Contacts to SAP Emarsys API"

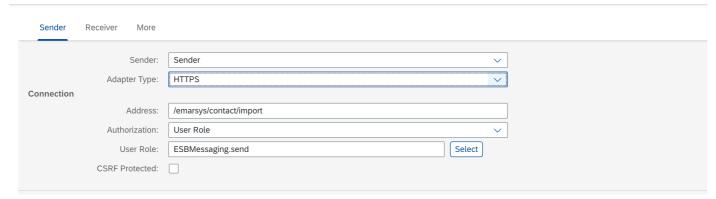


Fig - AdapterConfig.1(Replicate Contacts to SAP Emarsys API)

Configure "Replicate Contacts to SAP Emarsys API"

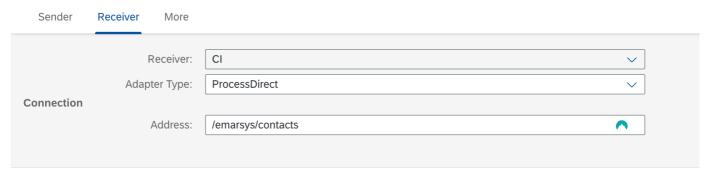


Fig - AdapterConfig.2(Replicate Contacts to SAP Emarsys API)

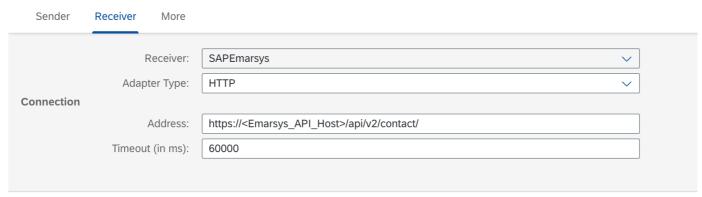


Fig - AdapterConfig.3(Replicate Contacts to SAP Emarsys API)

Property	Value
Address Fig - AdapterConfig.1(Replicate Contacts to SAP Emarsys API)	URI, based on this the HTTP endpoint for Cloud Integration artifact gets generated and needs to be used by the consumer of this API
Address Fig - AdapterConfig.2(Replicate Contacts to SAP Emarsys API)	Same value as maintained in iFlow - Custom Mapping for replicating Contacts to SAP Emarsys
Address Fig - AdapterConfig.3(Replicate Contacts to SAP Emarsys API)	Emarsys API Endpoint

Configure "Custom Mapping for replicating Contacts to SAP Emarsys"

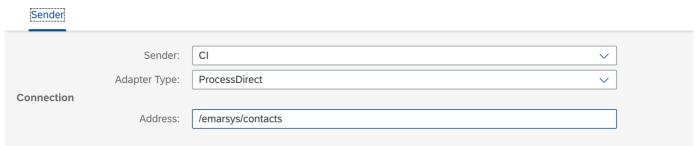


Fig - AdapterConfig.4(Custom Mapping for replicating Contacts to SAP Emarsys)

Property	Value
Address	Endpoint (same needs to be used in the caller flow)

4 Resources

Authentication guide

Emarsys API Documentation

API Postman Collection