Lab: Messaging Introduction

In this lab, you will answer investigate the messaging behaviors in TrainingApp. You will also investigate the various types of resources that enable messaging in Guidewire Studio.

Requirements

This lab requires that you use TrainingApp 8.0, Guidewire Studio 8.0, and Chrome as your web browser. Start Guidewire Studio for Training App. Debug the Server.

To view, edit, and delete various contacts, log in to TrainingApp as Super User. The default URL for TrainingApp is <http://localhost:8880/ab/ContactManager.do>. The login/password for Super User is su/gw.

1. Triggering Messages

In this exercise, you will create, edit, and then delete a bank account. You will verify messaging behavior in the Debug Console window of Guidewire Studio.

Investigation

1. Create a checking bank account for William Andy
2. In TrainingApp, view the William Andy contact.
3. From the Details screen, go to the Bank Accounts tab.
4. Create a bank account of the type Checking.
5. Verify the message in the Debug Console
6. Review the Debug Console in Guidewire Studio.

Write it down

Was a message created? If so, what triggered the message? What is the message number? 201

Ans: Yes message was created. BankAccount Added trigger has fired the event BankAccountAdded.

Here when bank account entity instance was created it has fired the bankaccountadded event. This event is captured in the rule set

|  |
| --- |
| \*\*\* Stage 1 -- Triggering the message \*\*\*  Event Fired rule set: BAEF1000 - Bank Account Verification  Messaging Destination ID is 13  Event Fired rules: BAEF1100 - Bank Account  EventAware entity is BankAccount  Event Fired rules: BAEF1110 - Added Changed  Event is BankAccountAdded  \*\*\* Stage 2 -- Generating the message payload \*\*\*  Event Fired rules: BAEF1111 - Field Changed  Using Gosu Template for payload  createMessage() called  \*\*\* Stage 3(a) -- Transforming the message payload with late binding \*\*\*  Request plugin: BankAccountVerificationRequest -- beforeSend()  Message ID is 201  Returning payload string  \*\*\* Stage 3(b) -- Sending the message \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  The Request Plugin did NOT transform the payload  Sending payload to console for Message ID 201 as:  contact,ab:5  bankName,newBankAccount  routingNumber,444-444  accountNumber,444444  accountType,checking  \*\*\* Stage 4 -- Message acknowledgement \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  Acknowledged Message ID 201 synchronously  Verification status for IsVerified field is Verified |

1. Modify the bank account
2. In the Bank Account tab, click edit.
3. Modify the routing number for the checking bank account.
4. Verify message in the Debug Console
5. Review the Debug Console in Guidewire Studio.

Write it down

Was a message created? If so, what triggered the message? What is the message number? 13

Yes, here bankaccount changed event will be fired and captured by the event. For this the message will be created in the ab\_message table.

|  |
| --- |
| \*\*\* Stage 1 -- Triggering the message \*\*\*  Event Fired rule set: BAEF1000 - Bank Account Verification  Messaging Destination ID is 13  Event Fired rules: BAEF1100 - Bank Account  EventAware entity is BankAccount  Event Fired rules: BAEF1110 - Added Changed  Event is BankAccountChanged  \*\*\* Stage 2 -- Generating the message payload \*\*\*  Event Fired rules: BAEF1111 - Field Changed  Using Gosu Template for payload  createMessage() called  \*\*\* Stage 3(a) -- Transforming the message payload with late binding \*\*\*  Request plugin: BankAccountVerificationRequest -- beforeSend()  Message ID is 203  Returning payload string  \*\*\* Stage 3(b) -- Sending the message \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  The Request Plugin did NOT transform the payload  Sending payload to console for Message ID 203 as:  contact,ab:5  bankName,newBankAccount  routingNumber,444-888  accountNumber,444444  accountType,checking  \*\*\* Stage 4 -- Message acknowledgement \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  Acknowledged Message ID 203 synchronously  Verification status for IsVerified field is Verified |

1. Delete the bank account
2. In the Bank Account tab, click edit.
3. Delete the checking bank account.
4. Verify message in the Debug Console
5. Review the Debug Console in Guidewire Studio.

Write it down

Was a message created? Why or why not?

|  |
| --- |
| No , deleting the bank account does not fire any event as there is no such event to capture it. |

1. Review the Messaging configuration in Guidewire Studio
2. In Project view, navigate to messaging-config.xml.
3. View the details for Bank Account Verification.

Write it down

What are the events associated with Bank Account Verification? How do these events relate to the messages in the Debug Console window?

|  |
| --- |
| BankAccountAdded  BankAccountChanged |

1. Payload Generation

In this exercise, you will investigate the rules associated with message generation for the bank accounts.

Investigation

1. Create a Savings and Retirement account for William Andy
2. From the Details screen, go to the Bank Accounts tab.
3. Create a bank account of the type Savings. Do **NOT** click Update!
4. Click Add and create another bank account of the type Other.
5. Click Update.
6. Verify message in the Debug Console
7. Review the Debug Console in Guidewire Studio.

Write it down

Describe the primary differences between the created messages.

|  |
| --- |
| \*\*\* Stage 1 -- Triggering the message \*\*\*  Event Fired rule set: BAEF1000 - Bank Account Verification  Messaging Destination ID is 13  Event Fired rules: BAEF1100 - Bank Account  EventAware entity is BankAccount  Event Fired rules: BAEF1110 - Added Changed  Event is BankAccountAdded  \*\*\* Stage 2 -- Generating the message payload \*\*\*  Event Fired rules: BAEF1111 - Field Changed  Using Gosu Template for payload  createMessage() called  \*\*\* Stage 1 -- Triggering the message \*\*\*  Event Fired rule set: BAEF1000 - Bank Account Verification  Messaging Destination ID is 13  Event Fired rules: BAEF1100 - Bank Account  EventAware entity is BankAccount  Event Fired rules: BAEF1110 - Added Changed  Event is BankAccountAdded  \*\*\* Stage 2 -- Generating the message payload \*\*\*  Event Fired rules: BAEF1111 - Field Changed  Using XML model for payload as XML UTF String  createMessage() called  \*\*\* Stage 3(a) -- Transforming the message payload with late binding \*\*\*  Request plugin: BankAccountVerificationRequest -- beforeSend()  Message ID is 204  Replaced token <@@ageOfMessageInSeconds@@> with value 9  Returning payload string  \*\*\* Stage 3(b) -- Sending the message \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  The Request Plugin transformed the payload  Sending payload to console for Message ID 204 as:  contact,ab:5  bankName,savings  routingNumber,333-444  accountNumber,222222  accountType,savings  ageOfMessage,9  \*\*\* Stage 4 -- Message acknowledgement \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  Acknowledged Message ID 204 synchronously  Verification status for IsVerified field is Verified  \*\*\* Stage 3(a) -- Transforming the message payload with late binding \*\*\*  Request plugin: BankAccountVerificationRequest -- beforeSend()  Message ID is 205  Returning payload string  \*\*\* Stage 3(b) -- Sending the message \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  The Request Plugin did NOT transform the payload  Sending payload to console for Message ID 205 as:  <?xml version="1.0"?>  <BankAccount xmlns="http://guidewire.com/ab/gx/acme.ta.messaging.bank.bankaccountxmlmodel">  <ABContact>  <PublicID>ab:5</PublicID>  </ABContact>  <AccountNumber>55555</AccountNumber>  <AccountType>other</AccountType>  <BankName>other</BankName>  <RoutingNumber>333-555</RoutingNumber>  </BankAccount>  \*\*\* Stage 4 -- Message acknowledgement \*\*\*  Transport plugin: BankAccountVerificationTransport -- send()  Acknowledged Message ID 205 synchronously  Verification status for IsVerified field is Verified |

1. Review the EventFired Rule Set in Guidewire Studio
2. In Project view, navigate to Rule Sets 🡪 EventMessage 🡪EventFired.

Write it down

What is the name of the rule that generates messages and payloads for bank account verification? What is the difference between payloads based on the Account Type?

|  |
| --- |
| BankAccountVerification ( Field Changed) is the rule set creating a payload. Savings and checking account used gosu model and others used xml model. |

1. Sending messages and processing replies

In this exercise, you will modify William Andy's bank accounts. After each change, you will investigate how the related messages are processed. Pending messages take between 3 and 5 seconds to process.

Investigation

1. Modify a bank account for William Andy
2. From the Details screen, go to the Bank Accounts tab.
3. Modify one the bank accounts.
4. View the Message table
5. Navigate to the Message Table: Administration 🡪Training : Messaging 🡪 Message Table.

Write it down

For the modified bank account, what is the Msg ID? What is the Status?

|  |
| --- |
|  |
| MSG ID 6: on top |

1. View the MessageHistory table
2. Navigate to the Message Table: Administration 🡪Training : Messaging 🡪 MessageHistory Table.

Write it down

Are any of the messages from the Message Table now in the MessageHistory ListView? If so, what is the status of each message?

|  |
| --- |
|  |

|  |  |
| --- | --- |
|  | Stop and ask your instructor to review your completed lab. |