Bug number 1:

Airwallex API is able to save the record when aba parameter value is not provided in case of bank_country_code is US and payment method is local

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Environment: - Demo

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid Account number
- Valid Account name
- Payment Method: - Local
- Bank _country_Code:-US
- Keep aba parameter value empty

Expected Result: - API should respond with 400 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 201 stating it successfully saved the record

```
1) "aba number should not empty when country is US - local":

    AssertionError: expected 201 to equal 400
    + expected - actual

    -201
    +400
```

More Information

Request :

{

```
  beneficiary: {
    additional_info: { personal_email: 'john.walker@gmail.com' },
    address: {
      city: 'Seattle',
      country_code: 'US',
      postcode: '98104',
      state: 'Washington',
      street_address: '412 5th Avenue'
    },
    bank_details: {
      account_currency: 'USD',
      bank_name: 'JP Morgan Chase Bank',
      local_clearing_system: 'ACH',
      bank_country_code: 'US',
      account_name: 'NI',
      account_number: '6746713744',
      account_routing_type1: 'aba',
      account_routing_value1: '',
      swift_code: 'PMFAUS66'
    },
    company_name: 'ABC University',
    entity_type: 'COMPANY'
  },
  nickname: 'ABC University',
  payment_methods: [ 'SWIFT' ]
}
```

Response

{
  beneficiary: {
    additional_info: { personal_email: 'john.walker@gmail.com' },
    address: {
      city: 'Seattle',
      country_code: 'US',
      postcode: '98104',
      state: 'Washington',
      street_address: '412 5th Avenue'
    },
    bank_details: {
      account_currency: 'USD',
      account_name: 'NI',
      account_number: '6746713744',
      account_routing_type1: 'aba',
      account_routing_value1: '',
      bank_country_code: 'US',
      bank_name: 'JP Morgan Chase Bank',
      swift_code: 'PMFAUS66'
    },
    company_name: 'ABC University',
    entity_type: 'COMPANY'
  },
  beneficiary_id: '49a9793d-d771-471f-ad01-a6975676a34d',
  nickname: 'ABC University',
  payer_entity_type: 'COMPANY',

payment_methods: ['SWIFT']

End of Bug number 1

Bug number 2

API is able to process the request and returned 201 when invalid swift code is provided

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid Account number
- Valid Account name
- Payment Method: - SWIFT
- Bank _country_Code:-CN
- SWIFT CODE: BKCHCNBJXXX

Expected Result: - API should respond with 400 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 201 stating it successfully saved the record

```
1) invalid value of swift_code when payment_method is 'SWIFT':

   AssertionError: expected 201 to equal 400
   + expected - actual

   -201
   +400
```

More Information:

Request Body

```
{
  beneficiary: {
    additional_info: {
      personal_email: 'john.walker@gmail.com',
      business_registration_number: 'IT593003'
    },
    address: {
```

```
      city: 'Seattle',

      country_code: 'US',

      postcode: '98104',

      state: 'Washington',

      street_address: '412 5th Avenue'

    },

    bank_details: {

      account_currency: 'USD',

      bank_name: 'JP Morgan Chase Bank',

      local_clearing_system: 'ACH',

      bank_country_code: 'CN',

      account_name: 'Bs',

      account_number: '1212813556',

      swift_code: 'BKCHCNBJXXX'

    },

    company_name: 'ABC University',

    entity_type: 'COMPANY'

  },

  nickname: 'ABC University',

  payment_methods: [ 'SWIFT' ]

}
```

Response Body

```
{

  beneficiary: {

    additional_info: {
```

```
    business_registration_number: 'IT593003',

    personal_email: 'john.walker@gmail.com'
  },

  address: {

    city: 'Seattle',

    country_code: 'US',

    postcode: '98104',

    state: 'Washington',

    street_address: '412 5th Avenue'
  },

  bank_details: {

    account_currency: 'USD',

    account_name: 'Bs',

    account_number: '1212813556',

    bank_country_code: 'CN',

    bank_name: 'JP Morgan Chase Bank',

    swift_code: 'BKCHCNBJXXX'
  },

  company_name: 'ABC University',

  entity_type: 'COMPANY'
 },

 beneficiary_id: '05e8fb77-4ca0-4274-8dda-b63614313ace',

 nickname: 'ABC University',

 payer_entity_type: 'COMPANY',

 payment_methods: [ 'SWIFT' ]
}
```

End of Bug number 2

Bug number 3:

API is able to create and save the account name having more than 10 characters.(According to API documentation the length is from 2 to 200 characters, need to confirm regarding business requirement which one is correct 2 to 10 characters as specified in the QAAutomationCodeChallenge pdf document or the api documentation)

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid Account number
- Account name more than 10 characters
- Payment Method: - LOCAL
- Bank _country_Code:-US
- Valid aba

Expected Result: - API should respond with 400 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 201 stating it successfully saved the record

```
1) Invalid length of account_name, more than 10:

      AssertionError: expected 201 to equal 400
      + expected - actual

      -201
      +400
```

More Information

Request Body

{

  beneficiary: {

    additional_info: { personal_email: 'john.walker@gmail.com' },

    address: {

```
    city: 'Seattle',

    country_code: 'US',

    postcode: '98104',

    state: 'Washington',

    street_address: '412 5th Avenue'

  },

  bank_details: {

    account_currency: 'USD',

    bank_name: 'JP Morgan Chase Bank',

    local_clearing_system: 'ACH',

    bank_country_code: 'US',

    account_name: 'DcRxjXprbeA',

    account_number: '9444351265',

    account_routing_type1: 'aba',

    account_routing_value1: '021000021'

  },

  company_name: 'ABC University',

  entity_type: 'COMPANY'

},

nickname: 'ABC University',

payment_methods: [ 'LOCAL' ]

}
```

Response Body

```
{

  beneficiary: {
```

additional_info: { personal_email: 'john.walker@gmail.com' },

address: {

  city: 'Seattle',

  country_code: 'US',

  postcode: '98104',

  state: 'Washington',

  street_address: '412 5th Avenue'

},

bank_details: {

  account_currency: 'USD',

  account_name: 'DcRxjXprbeA',

  account_number: '9444351265',

  account_routing_type1: 'aba',

  account_routing_value1: '021000021',

  bank_country_code: 'US',

  bank_name: 'JP Morgan Chase Bank',

  local_clearing_system: 'ACH'

},

company_name: 'ABC University',

entity_type: 'COMPANY'

},

beneficiary_id: 'cc69303f-6586-4f9d-8507-48080da2b093',

nickname: 'ABC University',

payer_entity_type: 'COMPANY',

payment_methods: ['LOCAL']

End of Bug number 3

Bug number 4

API is able to create the beneficiary when account number is of more than 9 digits when bank_country_code is AU

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Account number more than 9 digits
- Valid account name
- Payment Method: - SWIFT
- Bank _country_Code:-AU
- Valid swift code
- Valid bsb

Expected Result: - API should respond with 400 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 201 stating it successfully saved the record

```
1) Invalid length of account_number when bank_country_code is AU, more than 9:

    AssertionError: expected 201 to equal 400
    + expected - actual

    -201
    +400
```

More Information

Request Body

{

  beneficiary: {

    additional_info: { personal_email: 'john.walker@gmail.com' },

    address: {

     city: 'Seattle',

     country_code: 'US',

```
      postcode: '98104',

      state: 'Washington',

      street_address: '412 5th Avenue'

    },

    bank_details: {

      account_currency: 'USD',

      bank_name: 'JP Morgan Chase Bank',

      local_clearing_system: 'ACH',

      bank_country_code: 'AU',

      account_name: 'VApwU',

      account_number: '1168977687',

      account_routing_type1: 'bsb',

      account_routing_value1: '033547',

      swift_code: 'AAYBAU2S'

    },

    company_name: 'ABC University',

    entity_type: 'COMPANY'

  },

  nickname: 'ABC University',

  payment_methods: [ 'SWIFT' ]

}
```

Response Body

```
{

  beneficiary: {

    additional_info: { personal_email: 'john.walker@gmail.com' },

    address: {
```

```
      city: 'Seattle',

      country_code: 'US',

      postcode: '98104',

      state: 'Washington',

      street_address: '412 5th Avenue'

    },

    bank_details: {

      account_currency: 'USD',

      account_name: 'VApwU',

      account_number: '1168977687',

      account_routing_type1: 'bsb',

      account_routing_value1: '033547',

      bank_country_code: 'AU',

      bank_name: 'JP Morgan Chase Bank',

      swift_code: 'AAYBAU2S'

    },

    company_name: 'ABC University',

    entity_type: 'COMPANY'

  },

  beneficiary_id: 'b2a3b3ab-700c-4b7e-a469-77889bd3ec2e',

  nickname: 'ABC University',

  payer_entity_type: 'COMPANY',

  payment_methods: [ 'SWIFT' ]

}
```

End of Bug number 4

BUG number 5

API is able to create the beneficiary when account number is of more than 20 digits when bank_country_code is CN

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Account number more than 20 digits
- Valid account name
- Payment Method: - SWIFT
- Bank _country_Code:-AU
- Valid swift code

Expected Result: - API should respond with 400 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 201 stating it successfully saved the record

```
1 failing

1) Invalid length of account_number when bank_country_code is CN, greater than 20:

    AssertionError: expected 201 to equal 400
    + expected - actual

    -201
    +400
```

More Information

Request Body:

```
{
  beneficiary: {
    additional_info: {
      personal_email: 'john.walker@gmail.com',
      business_registration_number: 'IT593003'
```

```
    },
    address: {
      city: 'Seattle',
      country_code: 'US',
      postcode: '98104',
      state: 'Washington',
      street_address: '412 5th Avenue'
    },
    bank_details: {
      account_currency: 'USD',
      bank_name: 'JP Morgan Chase Bank',
      local_clearing_system: 'ACH',
      bank_country_code: 'CN',
      account_name: 'LWorr',
      account_number: '323797388726039621130',
      swift_code: 'BKCHCNBJ'
    },
    company_name: 'ABC University',
    entity_type: 'COMPANY'
  },
  nickname: 'ABC University',
  payment_methods: [ 'SWIFT' ]
}
```

Response Body

```
{
  beneficiary: {
```

```
    additional_info: {

      business_registration_number: 'IT593003',

      personal_email: 'john.walker@gmail.com'

    },

    address: {

      city: 'Seattle',

      country_code: 'US',

      postcode: '98104',

      state: 'Washington',

      street_address: '412 5th Avenue'

    },

    bank_details: {

      account_currency: 'USD',

      account_name: 'LWorr',

      account_number: '323797388726039621130',

      bank_country_code: 'CN',

      bank_name: 'JP Morgan Chase Bank',

      swift_code: 'BKCHCNBJ'

    },

    company_name: 'ABC University',

    entity_type: 'COMPANY'

  },

  beneficiary_id: '5f20b178-27a3-4f3f-b61b-55563494d995',

  nickname: 'ABC University',

  payer_entity_type: 'COMPANY',

  payment_methods: [ 'SWIFT' ]

}
```

BUG number 6

API is able to create the beneficiary when bsb is not given of 6 characters when bank country code is "AU"

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid account number
- Valid account name
- Payment Method: - SWIFT
- Bank _country_Code:-AU
- Valid swift code

Expected Result: - API should respond with 400 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 201 stating it successfully saved the record

```
1) Invalid length of bsb(not 6) when bank_country_code is 'AU':

   AssertionError: expected 201 to equal 400
   + expected - actual

   -201
   +400
```

More Information

Request Body

{

  beneficiary: {

   additional_info: { personal_email: 'john.walker@gmail.com' },

   address: {

    city: 'Seattle',

    country_code: 'US',

```
      postcode: '98104',

      state: 'Washington',

      street_address: '412 5th Avenue'

    },

    bank_details: {

      account_currency: 'USD',

      bank_name: 'JP Morgan Chase Bank',

      local_clearing_system: 'ACH',

      bank_country_code: 'AU',

      account_name: 'RQdSG',

      account_number: '3157808934',

      account_routing_type1: 'bsb',

      account_routing_value1: '0335471',

      swift_code: 'AAYBAU2S'

    },

    company_name: 'ABC University',

    entity_type: 'COMPANY'

  },

  nickname: 'ABC University',

  payment_methods: [ 'SWIFT' ]

}
```

Response Body

```
{

  beneficiary: {

    additional_info: { personal_email: 'john.walker@gmail.com' },

    address: {

      city: 'Seattle',
```

```
      country_code: 'US',

      postcode: '98104',

      state: 'Washington',

      street_address: '412 5th Avenue'

    },

    bank_details: {

      account_currency: 'USD',

      account_name: 'RQdSG',

      account_number: '3157808934',

      account_routing_type1: 'bsb',

      account_routing_value1: '0335471',

      bank_country_code: 'AU',

      bank_name: 'JP Morgan Chase Bank',

      swift_code: 'AAYBAU2S'

    },

    company_name: 'ABC University',

    entity_type: 'COMPANY'

  },

  beneficiary_id: '3d9d4406-2f13-4753-ad4a-c595b15872b0',

  nickname: 'ABC University',

  payer_entity_type: 'COMPANY',

  payment_methods: [ 'SWIFT' ]

}
```

End of Bug number 6

BUG number 7

API is throwing error message and not able to save in case we have characters in the account name (API documentation shows it is digit only but actually it should allow characters as well according to QA code challenge documentation)

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid account number with characters
- Valid account name
- Payment Method: - LOCAL
- Bank _country_Code:-US

Expected Result: - API should respond with 201 stating the mandatory aba parameter value is required

Actual Result: - API Respond with 400 stating it successfully saved the record

```
1) 'Postive API Test', function()
    LOCAL, US, valid accountName(length(2,10)), valid accountNumber(length(1,17)), aba code with length(9):

    AssertionError: expected 400 to equal 201
    + expected - actual

    -400
    +201
```

More Information:

Request Body

```
{
  beneficiary: {
    additional_info: { personal_email: 'john.walker@gmail.com' },
    address: {
      city: 'Seattle',
      country_code: 'US',
```

```
    postcode: '98104',

    state: 'Washington',

    street_address: '412 5th Avenue'

  },

  bank_details: {

    account_currency: 'USD',

    bank_name: 'JP Morgan Chase Bank',

    local_clearing_system: 'ACH',

    bank_country_code: 'US',

    account_name: 'SX',

    account_number: '284bb11461',

    account_routing_type1: 'aba',

    account_routing_value1: '021000021'

  },

  company_name: 'ABC University',

  entity_type: 'COMPANY'

 },

 nickname: 'ABC University',

 payment_methods: [ 'LOCAL' ]

}
```

Response Body

```
{

  code: 'payment_schema_validation_failed',

  message: 'Should contain digits only',

  source: 'beneficiary.bank_details.account_number'

}
```

<div align="center">End of Bug number 7</div>

Bug number 08

Wrong API message when payment method is local and bank_country _code is "MN"

Environment:- Demo

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid account number
- Valid account name
- Payment Method: - LOCAL
- Bank _country_Code:-MN(dummy)

Expected Result: - API should respond with 400 stating the **bank_country _code is not valid**

Actual Result: - API Respond with 400 stating 'beneficiary.bank_details.swift_code'

```
{
  code: 'payment_schema_validation_failed',
  message: 'This field is required',
  source: 'beneficiary.bank_details.swift_code'
}
```

More Information

Request Body

```
{
  beneficiary: {
    additional_info: { personal_email: 'john.walker@gmail.com' },
    address: {
      city: 'Seattle',
      country_code: 'US',
      postcode: '98104',
      state: 'Washington',
```

```
    street_address: '412 5th Avenue'
  },
  bank_details: {
    account_currency: 'USD',
    bank_name: 'JP Morgan Chase Bank',
    local_clearing_system: 'ACH',
    bank_country_code: 'MN',
    account_name: 'We',
    account_number: 'b94c262369',
    account_routing_type1: 'aba',
    account_routing_value1: '021000021'
  },
  company_name: 'ABC University',
  entity_type: 'COMPANY'
 },
 nickname: 'ABC University',
 payment_methods: [ 'LOCAL' ]
}
```

Response Body

```
{
  code: 'payment_schema_validation_failed',
  message: 'This field is required',
  source: 'beneficiary.bank_details.swift_code'
}
```

<div align="center">End of bug number 8</div>

BUG number 9

API is throwing error message and not able to save in case we have characters in account_routing_value1: (API documentation shows it is digit only but actually it is a string field)

Description (steps to reproduce)

Provide all the necessary information in the API payload

- Valid account number with
- Valid account name
- Payment Method: - LOCAL
- Bank _country_Code:-US
- aba field parameter should contain string like 02100002a

Expected Result: - Api respond with 400 and respone body message value "Should contain digits only"

Actual Result: - API should respond with 400 stating the wrong aba field value

```
}
{
  code: 'payment_schema_validation_failed',
  message: 'Should contain digits only',
  source: 'beneficiary.bank_details.account_routing_value1'
}
```

More Information

Request Body

beneficiary: {

additional_info: { personal_email: 'john.walker@gmail.com' },

address: {

city: 'Seattle',

country_code: 'US',

postcode: '98104',

```
    state: 'Washington',

    street_address: '412 5th Avenue'

  },

  bank_details: {

    account_currency: 'USD',

    bank_name: 'JP Morgan Chase Bank',

    local_clearing_system: 'ACH',

    bank_country_code: 'US',

    account_name: 'OV',

    account_number: '4243522286',

    account_routing_type1: 'aba',

    account_routing_value1: '02100002a'

  },

  company_name: 'ABC University',

  entity_type: 'COMPANY'

 },

 nickname: 'ABC University',

 payment_methods: [ 'LOCAL' ]

}
```

Response body

```
{

  code: 'payment_schema_validation_failed',

  message: 'Should contain digits only',

  source: 'beneficiary.bank_details.account_routing_value1'

}
```

<center>**End of Bug number 9**</center>

Observations

1. When bank_country_code is CN, the pay load requires "business_registration_number" to be mandatory.
2. The local method works for only bank_country_code is US. In case of CN and AU, the SWIFT payment method is mandatory.
3. It seems there is a discrepancy between the requirement on QA automation challenge pdf report and actual API requirements on the Airwallex web. (https://www.airwallex.com/docs/api#/Payouts/Beneficiaries/_api_v1_beneficiaries_create/post)
4. The validation messages retuned by the APIs need to be more meaningful; for most of the cases we have invalid arguments, and payment_schema_validation failed.

End of Bug Report