

YA 2022 Validation Test Guide



This guide is meant for vendors whose payroll software supports either the [direct API submission mode](#) and/ or the [file generation mode](#). If your payroll software supports both modes, please refer to [Direct API Submission Mode's](#) instructions only.

Direct API Submission Mode

For payroll software supporting the direct API submission mode.

The payroll software is required to integrate directly with IRAS' server to submit employment income information via API.

Please refer to the steps below to commence your testing.

Vendors who already have an account in the Sandbox portal and have subscribed to the API services may proceed to Step 2 directly.

Step 1: Create account in Sandbox Portal and subscribe to APIs

Create an account and register your payroll software at the [Sandbox portal](#).

Subscribe to the "Corppass Authentication (Sandbox) (2.0.0)" and "Submission of Employment Income Records (CorpPass) (Sandbox) (1.0.3)" API services. Refer to Section 2 of the [AIS-API \(CP\) specifications](#) or [Corppass Authentication API specifications](#) for more information.

You will need to register your software's callback URL via the [registration form](#). Upon successful registration of your callback URL, your subscription to the API services in the Sandbox Portal will be approved and you will be notified via email.

Step 2: Identify your test scenario

Refer to the following tables to identify your test scenario based on the form type(s) which your software supports. (E.g. Replicate records in Scenario 8 if your software supports all forms) For vendors having multiple products, replicate the scenario with the most form type(s) your software can support.

Scenario No.	Combination of form type(s)
1	IR8A
2	IR8A and IR8S
3	IR8A and A8A
4	IR8A and A8B

Scenario No.	Combination of form type(s)
5	IR8A, IR8S and A8A
6	IR8A, IR8S and A8B
7	IR8A, A8A and A8B
8	IR8A, IR8S, A8A and A8B

Step 3: Verify test data (Set A) generated based on identified test scenario

For each supporting file format (TXT and/ or XML), generate test data containing the **same values*** as specified in the identified test scenario (downloadable from [IRAS website](#)).

** The values in the test scenarios are fictitious and are solely meant for the purpose of the Validation Test. These values are **NOT** to be used as reference for any computation purposes (e.g. CPF computation).*

Tip: You can use a comparison tool (e.g. <https://text-compare.com/>) to compare the test data generated from your payroll software to the expected output files (attached in each scenario).

Step 4: Generate random test data (Set B)

Generate another set of test data for each supporting file format, containing **random data** from your system. The generated data should consist of:

- 20 IR8A records, and 5 records of each supporting form type(s) (depending on the form type(s) your payroll software supports),
- Fictitious employee data and income information (with valid ID no.), and
- Preferably a mixture of the [classes of employees](#).

Step 5: Validate and submit test data in Sandbox environment

You are required to provide IRAS with both sets of test data. Submit the test data for Set A and Set B in **different API calls** to the Sandbox environment.

For vendors supporting AIS-API (Corppass), "Submission of Employment Income Records (Corppass) (Sandbox) (1.0.0)", use the following credentials to

1. Perform Singpass Login in the Sandbox environment

Singpass ID: **S9991257Z**
Password: **Spcp1111**

2. Data preparation for the API calls

Organisation ID Type: **UEN-Local Co (8)**
Organisation ID No: **180011032C**

For vendors supporting AIS-API (non-Corppass), "Submission of Employment Income Records (Sandbox)", use the following credentials to make the API calls:

Organisation ID Type: **UEN-Others (U)**
Organisation ID No: **T16ZZ0099J**

Record the submission reference number(s) e.g. [ES2101102020IR8A1234567890](#) that will be returned within the API response after every successful submission in Sandbox.

As the test scenarios are for basis year 2021, you may ignore the following warning message during the validation by making use of the "bypass" field in your HTTP request - "You are submitting file(s) for income derived in year 2021."

Note:

For production, please build your system to set "bypass = false" by default and allow your users to have the option to switch to "true" after acknowledging the warning messages returned (if any).

Step 6: Complete Self-Verification Form

Submit the Self-Verification Form (hyperlink provided in our email) by 30 Nov 2021.

Please provide the submission reference numbers in the appropriate fields in the Self-Verification Form (e.g. [ES2101102020IR8A1234567890](#)). This information is necessary for us to retrieve your submissions from our server.

File Generation Mode **until YA2022 submissions only!**

For vendors whose payroll software supports the File Generation mode only.

The payroll software is required to generate TXT and/ or XML files in the specified formats, and can be validated using the [Validation and Submission Application](#).

Please refer to the steps below to commence your testing.

Step 1: Identify your test scenario

Refer to the following tables to identify your test scenario based on the form type(s) which your software supports. (e.g. Replicate Scenario 8 only if your system supports all forms) For vendors having multiple products, replicate the scenario with the most form type(s) your software can support.

Scenario No.	Combination of form type(s)
1	IR8A
2	IR8A and IR8S
3	IR8A and A8A
4	IR8A and A8B

Scenario No.	Combination of form type(s)
5	IR8A, IR8S and A8A
6	IR8A, IR8S and A8B
7	IR8A, A8A and A8B
8	IR8A, IR8S, A8A and A8B

Step 2: Verify test files (Set A) generated based on identified test scenario

For each supporting file format (TXT and/ or XML), generate test files containing the **same values*** as specified in the identified test scenario (downloadable from [IRAS website](#)).

** The values in the scenario are fictitious and are solely meant for the purpose of the Validation Test. The values in the scenario are **NOT** to be used as a reference for any computation purposes (e.g. CPF computation).*

Tip: You can use a comparison tool (e.g. <https://text-compare.com/>) to compare the test data generated from your payroll software to the expected output files (attached in each scenario).

Step 3: Generate random test files (Set B)

Generate another set of test files for each supporting file format, containing **random data** from your system. The generated data should consist of:

- 20 IR8A records, and records of each supporting form type(s) (depending on the form type supported),
- Fictitious employee data and income information (with valid ID no.), and
- Preferably a mixture of the [classes of employees](#).

Step 4: Validate test files

Validate your test files using "Validation and Submission Application v10.0" published on [IRAS website](#). Ensure that **both** sets of test files are error-free and the validated summary tallies with what has been input in your payroll software. Do **NOT** login to myTax Portal to submit the validated test files.

As the test scenarios are for basis year 2021, you may ignore the following warning message during the validation "You are submitting file(s) for income derived in year 2021."

Step 5: Complete Self-Verification Form

Submit the Self-Verification Form (hyperlink provided in our email) by 30 Nov 2021.

You are required to provide IRAS with **both sets** of test files (Set A and B) in the self-verification form. Rename the output test files using the following naming convention: **<Set A or B>_<FormType>** (e.g. A_IR8A.txt).

Compress your test files into a single *.zip format file and rename the zip file with your company's name (e.g. ABC.zip) before uploading in the Self-Verification Form.

The information provided is intended for better general understanding and is not intended to comprehensively address all possible issues that may arise. The contents are correct as at 17 Sep 2021 and are provided on an "as is" basis without warranties of any kind. IRAS shall not be liable for any damages, expenses, costs or loss of any kind however caused as a result of, or in connection with your use of this document.

While every effort has been made to ensure that the above information is consistent with existing policies and practice, should there be any changes, IRAS reserves the right to vary our position accordingly.