

PUBLICATION 5718

INFORMATION RETURNS INTAKE SYSTEM (IRIS) ELECTRONIC FILING APPLICATION TO APPLICATION (A2A) SPECIFICATIONS



What's New for Processing Year 2025		
Location Changes		
Throughout Publication	Updated Processing Year	
Throughout Publication	Updated Tax Year	
Introduction	New forms added to IRIS A2A intake	
Section 1.1	Added clarifying information on Issuer TCC and EIN	
Section 1.6	Added a few clarifications	
Section 3.1.2	Added a few clarifications	
Section 3.1.3	Added a few clarifications	
Table 3.3.1	Updated Table with new forms	
Section 9	Rhode Island added to CF/SF program	
Section 10.1	New forms added to Due Date chart	

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1. Introduction

The Information Returns Intake System (IRIS) Application to Application (A2A) is a system that uses Extensible Markup Language (XML) format to bulk file large volumes of information returns.

This publication outlines the communication procedures, transmission formats, business rules and validation procedures for information returns transmitted electronically through the IRIS A2A system. Use the guidelines provided in this publication along with the yearly XML schemas to develop software for IRIS and/or to transmit through the IRIS A2A system. For Tax Year (TY) 2024 in Processing Year (PY) 2025 the following information returns can be filed using IRIS A2A:

- Form 1097-BTC, Bond Tax Credit
- Form 1098, Mortgage Interest Statement
- Form 1098-C, Contributions of Motor Vehicles, Boats, and Airplanes
- Form 1098-E, Student Loan Interest Statement
- Form 1098-F, Fines, Penalties and Other Amounts
- Form 1098-Q, Qualifying Longevity Annuity Contract Information
- Form 1098-T, Tuition Statement
- Form 1099-A, Acquisition or Abandonment of Secured Property
- Form 1099-B, Proceeds From Broker and Barter Exchange Transactions
- Form 1099-C, Cancellation of Debt
- Form 1099-CAP, Changes in Corporate Control and Capital Structure
- Form 1099-DIV, Dividends and Distributions
- Form 1099-G, Certain Government Payments
- Form 1099-H, Health Coverage Tax Credit (HCTC) Advance Payments
- Form 1099-INT, Interest Income
- Form 1099-K, Payment Card and Third-Party Network Transactions
- Form 1099-LS, Reportable Life Insurance Sale
- Form 1099-LTC, Long-Term Care and Accelerated Death Benefits
- Form 1099-MISC, Miscellaneous Information
- Form 1099-NEC, Nonemployee Compensation
- Form 1099-OID, Original Issue Discount
- Form 1099-PATR, Taxable Distributions Received From Cooperatives
- Form 1099-Q, Payments from Qualified Education Programs (Under Sections 529 & 530)
- Form 1099-R, Distributions From Pensions, Annuities, Retirement or Profit-Sharing Plans, IRAs, Insurance Contracts, etc.
- Form 1099-S, Proceeds From Real Estate Transactions

- Form 1099-SA, Distributions From an HSA, Archer MSA, or Medicare Advantage MSA
- Form1099-SB, Seller's Investment in Life Insurance Contract
- Form 3921, Exercise of an Incentive Stock Option Under Section 422(b)
- Form 3922, Transfer of Stock Acquired Through an Employee Stock Purchase Plan under Section 423(c)
- Form 5498, IRA Contribution Information
- Form 5498-ESA, Coverdell ESA Contribution Information
- Form 5498-SA, HSA, Archer MSA, or Medicare Advantage MSA Information
- Form W-2G, Certain Gambling Winnings

Note: Please refer to Publication 1220, Specifications for Electronic Filing of Form 1097, 1098, 1099, 3921, 3922, 5498 and W-2G, for Information Return electronic specifications filed via the Filing Information Returns Electronically (FIRE) System.

The procedures in this publication should also be used in conjunction with the most current version of the following publications:

Publication 4557 – Safeguarding Taxpayer Data: A Guide for Your Business: The purpose of this publication is to provide information on legal requirements to safeguard taxpayer data. The target audience is non-government businesses involved in the preparation and filing of income tax returns.

Publication 5719 – Information Returns Intake System (IRIS) Test Package for Information Returns: This publication contains guidelines and instructions for the IRIS Assurance Testing System (IRIS ATS). IRIS ATS is a process to test software and electronic transmissions prior to accepting Software Developers, Transmitters, and Issuers into the electronic filing program.

The following guides/documents provide additional guidance for filing electronically through IRIS:

Publication 5717 – Information Returns Intake System (IRIS) Taxpayer Portal User Guide: Contains general and program specific information for use with the IRIS Taxpayer Portal.

Links to IRIS publications and guides are located at www.irs.gov/iris.

1.1 Purpose

The purpose of this document is to provide the A2A specifications to electronically file information returns with the IRS including the requirements and specifications under the Combined Federal/State Filing Program (CF/SF). Additionally, this publication provides specifications to submit an automatic 30-day extension of time to file certain information returns, and the procedure for replacing and correcting returns. The audience of this document is:

• Issuer: A business filing their own information returns using the same EIN as on the TCC application. (If a Sole Proprietor wants to file information returns using their SSN, then you must select Transmitter role.)

- Transmitter: A third-party sending the electronic information return data directly to IRS
 on behalf of any business required to file. If you are transmitting returns for your own
 business, in addition to transmitting returns on behalf of another business, you do not
 need both the Transmitter and Issuer role. You can file all returns as a Transmitter.
- Software Developer: An organization writing either origination or transmission software according to IRS specifications.

Note: Issuer(s) and Transmitter(s) are collectively referred to as transmitters throughout this document unless specifically stated otherwise.

All filers are encouraged to file electronically. Issuers should keep a copy of information returns (or be able to reconstruct the data) for at least three years from the reporting due date with the following exceptions:

- Returns reporting federal withholding should be kept for four years.
- Keep a copy of Form 1099-C, Cancellation of Debt, for at least four years from the due date of the return.

1.2 Communications

The Help Desk has been designated as the first point of contact for information return electronic filing issues. Software Developers, Transmitters and Issuers can contact the Help Desk toll free at 1-866-937-4130, for domestic calls, or 470-769-5100 (not toll-free) for international calls. The IRS welcomes calls via your choice of relay. Deaf or hard of hearing taxpayers using a relay service may call any of our toll-free numbers. The Help Desk provides assistance in the following areas:

- IRIS Application for Transmitter Control Code (TCC)
- IRIS Assurance Testing System (ATS) and Communication Testing
- Business Rules and Error Code Resolution

1.2.1 IRIS Webpage

For information regarding IRIS and electronic filing information returns, go to Information Returns Intake System (IRIS) Program webpage: www.irs.gov/iris.

The IRIS page provides:

- Online IRIS System (Production and Testing) Status
- IRIS Program Overview
- IRIS ATS Information
- Links to access IRIS Publications, Schemas, Business Rules, Known Issues and Solutions.

If you encounter an issue or limitation that prevents an information return from being submitted electronically through IRIS, and the solution is not posted on the IRIS webpage,

please contact the Help Desk. The Service will then work on making the appropriate corrections or assisting with the issue or limitation. Until corrections can be implemented, IRIS may develop "workarounds" which are temporary changes to allow the return to be transmitted electronically. Known Issues and workarounds will be posted by Tax Year (TY).

IRIS uses QuickAlerts, an IRS e-mail service, to disseminate information quickly regarding IRIS issues to subscribers. This service keeps tax professionals up to date on IRIS issues throughout the year, with emphasis on issues during the filing season. After subscribing, customers will receive "round the clock" communication issues such as electronic specifications and system information needed for Software Developers and Transmitters to transmit to IRS. New subscribers may sign up through the "subscription page" link located on the QuickAlerts "more" e-file Benefits for Tax Professionals page.

1.3 Registration and Application Process

External users must register with the current IRS credential service provider and complete the IRIS Application for Transmitter Control Code (TCC) to submit transmissions using the IRIS intake platform. Information returns filed through the IRIS A2A system cannot be filed using any other intake platform TCC. These include:

- e-File Application (MeF)
- Affordable Care Act (ACA) Application for TCC (AIR)
- Partnership Bipartisan Budget Act (PBBA) Application for TCC
- Information Returns (IR) Application for TCC (FIRE)
- IRIS TCC for the Taxpayer Portal

1.3.1 Registration

Before completing the IRIS Application for TCC, each user must create an account or sign-in using their existing credentials to validate their identities using the latest authentication process.

For more information, please visit <u>How to register for IRS online self-help tools | Internal</u> Revenue Service.

1.3.2 Who should apply for an IRIS TCC

If you are transmitting information returns to the IRS or if you are developing software to file information returns electronically, you must apply for one or more TCCs using the IRIS Application for TCC available online. A single application can be used to apply for multiple roles and the necessary TCCs. The IRS encourages transmitters who file for multiple issuers to submit one application and use the assigned TCC for all issuers. The purpose of the TCC is to identify the business acting as the transmitter of the file. As a transmitter, you may transmit files for as many companies as you need to under one TCC. The IRIS Application for TCC contains three separate roles: Software Developer, Transmitter, and Issuer. Complete

the IRIS Application for TCC if your firm or organization is performing one or more of the following roles:

- **Software Developer**: An organization writing either origination or transmission software according to IRS specifications.
- **Transmitter**: A Third-Party sending the electronic information returns data directly to IRS on behalf of any business.
- (**Note:** If you are transmitting returns for your own company, in addition to transmitting returns on behalf of another business, you do not need both the Transmitter and Issuer role. You can file all returns as a Transmitter.)
- **Issuer**: A business filing their own information returns using the same EIN as on the TCC application. (If a Sole Proprietor wants to file information returns using their SSN, then you must select Transmitter role.)

These roles are not mutually exclusive, for example, a firm or organization may be both a Transmitter and a Software Developer. Each role will receive its own TCC to be used based on the activity being performed. Software Developers performing Testing will use the Software Developer TCC. Do not use the Software Developer TCC to transmit Production files.

Note: If an organization requires more than one TCC for any given role, a Responsible Official (RO) listed on the application should request an additional TCC by clicking on the 'Request' option under 'Request Additional TCC' on the *Application Summary* Page.

The table below provides examples of who should apply for a TCC.

Table 1-1: TCC Roles

What roles should I select on my IRIS Application for Transmitter Control Code?			
Software Purchased or Developed?	lf	And	Then
Developed	I am a commercial Software Developer developing software and selling software,	I will transmit information for others.	Select both the Software Developer role and the Transmitter role on your application.
Developed	I am developing my own software package, or contracted with someone to develop a unique package for my sole use,	I will perform the software testing with IRS and transmit my own information returns.	Select the roles of Software Developer and Issuer on your application.

What roles	What roles should I select on my IRIS Application for Transmitter Control Code?			
Software Purchased or Developed?	lf	And	Then	
Purchased	I am purchasing a software package,	I will transmit my own information returns.	Select the role of Issuer on your application. Note: The Transmitter EIN and the Issuer EIN must match the EIN on the Issuer TCC application.	
Purchased	I am purchasing a software package,	I will transmit my own information returns and transmit for others.	Select the role of Transmitter on your application. Note: The TCC for a Transmitter can be used to transmit your own returns and others. You may not use an Issuer TCC to transmit information returns for others.	

1.3.3 Third-Party Transmitters

If you do not have an in-house programmer familiar with XML or do not wish to purchase A2A software that is certified to support the information returns that you plan to file, you can file through a Third-Party Transmitter or use the online Taxpayer Portal. Visit www.irs.gov/ iris for additional information.

Only those persons listed as an Authorized User on the IRIS Application for TCC qualify to receive information about a Receipt ID associated with a TCC listed on that application.

If your Third-Party Transmitter needs technical assistance regarding a Receipt ID associated with records that were submitted on behalf of your organization, they should contact the Help Desk.

When filing through a Third-Party Transmitter obtain the following for each submission filed on your behalf:

- A copy of all electronic records within each submission, along with the Receipt ID for the transmission in which they were filed.
- The transmission Acknowledgement that includes the Status that is returned when processing is complete (Accepted, Accepted With Errors, Partially Accepted, Rejected) and a detailed list of errors, if any.

Note: The items cited above are critical to your ability to make corrections should your Third-party Transmitter go out of business or be otherwise unavailable to file corrections on your behalf.

1.3.4 Things you need to know before completing the IRIS Application for TCC

A Responsible Official (RO) initiates and submits the IRIS Application for TCC electronically. Each RO must sign the terms of agreement using their five-digit PIN they created when they initially accessed the system. An application will receive a tracking number after saving it. Completing the application in a single session isn't a requirement.

The following information is necessary to complete each application:

- Firm's business structure
- Firm's (EIN) (the system doesn't allow firms to use a Social Security Number (SSN) or Individual Taxpayer Identification Number (ITIN)
- Firm's legal business name and business type
- Firm's doing business as name when it's different from the legal business name
- Business phone (phone country code and phone number)
- Business address (this must be a physical location, not a post office box)
- Mailing address when different than business address
- RO, contact and authorized delegate if applicable information must include: SSN or ITIN
- Date of birth
- Contact information, including email address, position/title and phone number
- Know the correct Role as defined in Section 1.3.2.
- At this time, the only option to select is Form 1099 Series, which includes all forms listed above in the Introduction
- Know the transmission method you will use

After the approval of your application, a five-character alphanumeric TCC that begins with the letter 'D' will be assigned. The IRS will send a letter with this information to the mailing address on your application. You can always sign into your IRIS Application for TCC to monitor the status of your application and view your TCCs on the *Application Summary* page.

1.3.5 Access the IRIS Application for TCC

If you would like to use IRIS A2A, you must complete the following steps:

- 1. Go to IRIS TCC
- 2. Click on the Access Application for TCC button
- **3.** Sign in or create an account to begin the application process (you don't need to create an account if you already have one)
- **4.** Select Individual on the Select Your Organization page

- 5. Click on New Application and select IRIS Application for TCC
- 6. Complete and submit an IRIS Application for Transmitter Control Code (TCC)
 - Each RO must sign the Application Submission page using their 5-digit PIN. The application will be processed after all ROs have entered their PIN and accepted the Terms of Agreement.
 - If you forgot your PIN, select the Modify PIN tab located at the top of the screen to create a new PIN.
- 7. Allow up to 45 calendar days for application processing. You may check the status of your application and TCC(s) on the Application Summary page.

If you are unable to complete your application during your session, follow steps 1–4 above to access your saved application.

1.3.6 Application Approved/Completed

When your IRIS Application for TCC is approved and completed, a five-character alphanumeric TCC that begins with the letter 'D' will be assigned to your business. An approval letter will be sent via United States Postal Service (USPS) to the address listed on the application, informing you of your TCC. You can also sign into your IRIS Application for TCC to view your TCCs on the Application Summary page.

If your application is in Completed status for more than 45 days and your TCC has not been assigned, contact the Help Desk.

1.3.7 Revise Current TCC Information

As changes occur, you must update and maintain your IRIS TCC Application. Some changes will require all ROs or Authorized Delegates (ADs) on the application to re-sign the Application Submission page. Below are examples of when an application would need to be re-signed (this list is not all inclusive):

- Firm's DBA Name change
- Role changes or additions
- Add, delete or change RO and/or AD

Note: Changes submitted on an IRIS TCC Application do not change the address of IRS tax records just as a change of address to IRS tax records does not automatically update information on an IRIS TCC Application.

Changes that require a firm to acquire a new Employer Identification Number (EIN) require a new IRIS TCC Application. Firms that change their form of organization, such as from a sole proprietorship to a corporation, generally require the firm to acquire a new EIN.

1.3.8 Deleted TCCs

Your TCCs will remain valid if you transmit information returns or extensions of time to file. If you don't use your TCC for three consecutive years, your TCC will be deleted. Once your TCC is deleted it cannot be reactivated. You'll need to submit a new IRIS Application for TCC.

1.4 Transmitter and Issuer TCCs

Depending on the roles selected on the application, one or more TCCs will be assigned. Each TCC will have an indicator of Test "T" or Production "P" and status of Active, Inactive, or Dropped. Transmitters and Issuers are issued a TCC in Test "T" status until required Communication Testing is conducted in the ATS environment and passed. Once Communication Testing is passed, the Transmitter should contact the Help Desk to request to be moved to Production "P" status. For more information about Communication Testing for Transmitters, refer to Publication 5719, Information Returns Intake System (IRIS) Test Package for Information Returns.

1.5 Software Developer TCCs

After selecting the Software Developer role on the application, additional information about the software package being developed is required. The TCC is permanently assigned in "Test" status. A separate Software ID is also assigned for each package. The tax year(s) for the information returns supported, form type, and software package type (Commercial Off the Shelf (COTS), Online, In-house) are also required. Each Software Package and form type has a separate status.

Software Package information must be updated annually through the IRIS Application for TCC. New Software IDs will be assigned for each tax year. To update your application, the Responsible Official should go to the Software Packages page and click the "Add Software Package" button which is located towards the bottom of the page. For more information about Software Testing for Software Developers, refer to Publication 5719, Information Returns Intake System (IRIS) Test Package for Information Returns.

1.6 API Client ID

All IRIS A2A users will need to create, develop, or purchase software to use the A2A transmission method. The IRIS A2A Channel uses the API Client ID to authenticate and authorize access to IRIS A2A services. You must be approved to receive an API Client ID and follow the e-Services A2A program requirements. After you receive your IRIS TCC, you must complete an API Client ID Application which will allow your software to communicate directly with IRS systems. To receive a API Client ID for IRIS A2A services, the following actions must take place:

- **1.** Go to www.irs.gov/iris and select Get an API Client ID under Steps to use IRIS A2A. You will be redirected to Get an API client ID.
- 2. Click on the Sign in or create an account button to complete or modify your application.
- **3.** Select Individual on the Select Your Organization page or access your existing Client ID Application if you already have one.
 - **Exception:** You must create a new Client ID if your existing Client ID Application is only for Income Verification Express Services (IVES) Forms Based Processing (FBP).
- **4.** Click on New Application and select API Client ID Application to begin a new application.
- **5.** To modify your existing application, select your API application under All Applications to access the Application Details page.
 - **a.** Select the edit icon and check the IRIS box under Select APIs, then resubmit your application.
 - **b.** If there are no errors, you will see the Submission Complete page. Return to the Application Details page to view your IRIS Client ID.
- **6.** Each Client ID will need a JavaScript Object Notation (JSON) Web Key Set (JWKs) to be uploaded to the application and validated before the Client ID will be issued. Review the following instructions to complete the process.

You will have the opportunity to save your application if you do not have all the required information. Once the application is saved, you may come back at your convenience.

Note: Continue to select Individual from the Select Your Organization page to access your new application, until the application has gone to completed status.

While completing the application, you will need to provide the JWKs file with use of valid X.509 digital security certificate. The certificate will be validated during the application process. Your Client ID will be provided to you at the time of registration. A JSON Web Key Set (JWKs) that represents a cryptographic key is used for e-Services API authentication. It contains a public key that validates the API consumer application. JWKs will have the following criteria:

- JWKs should contain a public key using RSA algorithm. RSA provides a key ID for key matching purposes.
- Should contain X.509 certificate using both "x5t" (X.509 SHA-1 Thumbprint) and "x5c" (X.509 certificate Chain) parameters.
 - You are not allowed to use self-signed certificates.
 - You can use the same public certificate as used for other IRS programs such as MeF or AIR.
- For more information on Digital Certificates visit <u>Digital Certificates | Internal Revenue</u> Service

The set of JWK attributes need to be pasted into the JSON Web Key (JWK) section of your application following these guidelines:

- Must be in the order listed below
- Remove any attribute names not in the list below
- Paste the full JWK including all the beginning '{' and ending curly braces '}' to avoid errors
- A text editing tool may be useful when rearranging and/or removing attributes not listed below
- Please refer to 'Figure 1-1' for a JWK example
- The attributes expected in JWK are:
 - "kty": Key Type (must be RSA)
 - o "kid": Key ID
 - "use": "sig" Public Key Use
 - "n": the modulus
 - "e": "AQAB" the public exponent
 - "x5c": X. 509 Certificate Chain
 - "x5t": X.509 Certificate SHA-1 Thumbprint

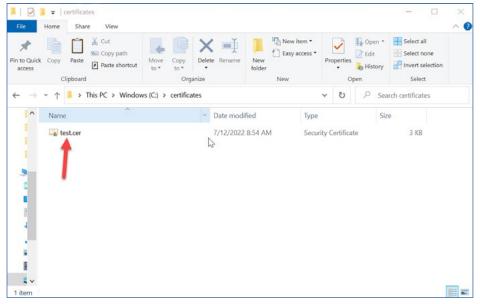
Note: if any of the above attributes are missing from the JWK, the JWK will be invalid. Please refer to Figure 1-1, which contains an example of an RSA key represented as JWKs. Paste the full JWK including the beginning '{' and ending curly braces '}' to avoid errors. If there are no errors, you will see the *Submission Complete* page and you will be able to view the issued Client ID.

Figure 1-1: JWK Example

```
"n": "ruZaAO0J6QGmpXOJNs9xxgMRXiU6DZTIQD2ZVt2fGaiTY_hu9HdmH3IBO6lc32rp2O201pzwCDsloOmPXr8
Ml5oprV8a-pAcfbhNzi4wr6FpY3aLAfjUmPDWjNUiGZxSwsiyb7OJdpGHipmC1Mz
.
H4ZZNbjPS1dASWs5WOFLyMDYQ4W6mKlDQ8ku9J5rD_RDzUnjH3RRugG8q0moEtXoFZgUJp3jEggbGOPoMzRqFSp9_gXvGchzhGt
kkz}zXCI1-fzGozjzCehlWw_h262xoWOkb0PbD5BcUNehmVg6Y-
xx24f3echmsTdta3Xfq7V1X7F94ytYf4I_kSvD1vwspYFxL6uBnikPTu66uI2GuLjdGrQ1FV94pFvEpWDh0NMChRZkzs1VW6tkZZ05jc15Yu
:"EBRJBeoV2zsPDij6omvDP_JdfK9MXVmHj0OA8GCBtLi5kKxSuDqN0CbUaO0xvPzZw4aFK8dqv1UL7MO184J-3ixwfGKr1-pkZMYC5
MIDsDCCAhigAwlBAgIGAWsyWmY+MA0GCSqGSIb3DQEBCwUAMB4xHDAaBgNVBAMME2VzZXJ2LWFwaS10ZXN0LXRvb2wwHh
IMTkwNTAXMDQwMDAwWhcNMjAwNTAXMDQwMDAwWjAUMRIwEAYDVQQDDAlzY290dC1yc2EwggGiMA0GCSqGSlb3DQEBAQ
JAA4IBjwAwggGKAoIBgQCu5loA7QnpAaalc4k2z3HGAxFeJToNlMhAPZlW3Z8ZqJNj+G70d2YfcgE7qVzfaunY7bTWnPAIOyWg6Y9ev
nmsP9EPNSeMfdFG6AbyrSagS1egVmBQmneMSCBsY4+gzNGoVKn3+Be8ZyHOEbx+STMnNcijX5/MajOPMJ6GVbD+HbrbGhY6RvQ
esPkFxQ16GZWDpj6nHbh/d5yGaxN21rdd+rtXVfsX3jK1h/gj+RK8PW/CylgXEvq4GeKQ9O7rq4jYa4uN0atDUVX3ikW8SlYOHQ0wKFf
nTOzVVbq2RInTmNzXli7wTxEkF6hXbOw8MiPqia8M/8l18r0xdWYePQ4DwYIG0uLmQrFK4Oo3QJtRo7TG8/NnDhoUrx2q/VQvsw7Xz
gn/eLHBBYqvX6mRkxgLkCAwEAATANBgkqhkiG9w0BAQsFAAOCAYEAIrr3UEV2yB73S3XYECI48A6nqGjpU1ufzFwGmncchq/E8aVBm
redAc4ONwy4XcNUJP0CeQtKGYoR0SPkWLoCsBx+F+8hilan8fb4buOqfyWefiw9w8crkmWv16wTr0qOgRQeGgt8LeOYmTsIyf7UW86.
.
Igy5KhPUE6EEdf05ourevkJXJo148Vs+8Xrr6wLZLd/t+qKiiHHzLIoCHqv4J0Pbut9UtUJy9OWsxDMsau/plhPsnMxOC8FsZxv8rrFFGhx
BG3k0VvSazPVsYzFjjpN0ahPr+1z0L5ttjlEXJ9qDF8fc0YGkhlbjFinya60ztl8aUirmN61mCwaXYGwWiYGvRdgrYTbq9Xj24Gev79pWjybF
2Wchg4oYHw3Yd3wDxFLjmAzNLTfH8Shjzq7EdpSu8k52TqZsrHqp3dE5ehG4YnJ+J/81M5ltE9SA40365q1RPURWMtymdNLs1VSjAb
w2CRXbybpNqgZ9Q5zM1Aku+NMSoNEj5H+gmUV"
      x5t": "7a02e132b81e408e52d83506ed5edd1a89c719a2"
```

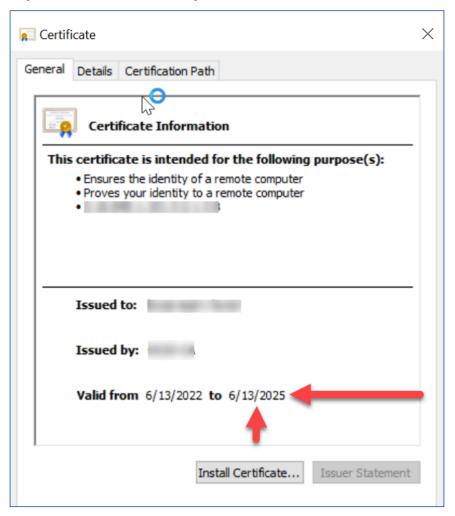
It is your responsibility to keep track of the JWK expiration date and provide a new one
once the current JWK expires. The JWK expiration date is tied to the certificate expiration
date. There are various methods for checking a certificates expiration date. As one
example, you can double-click the public cert file on your computer as shown is Figure 1-2.

Figure 1-2: Example of Saved Certificate



• This will open up the certificate where the valid dates are shown, the expiration date is the end date. See the example in Figure 1-3.

Figure 1-3: Example of Certification Expiration Dates



For more information on JWK visit RFC 7517

Once the application is completed, the Responsible Official or Contact will need to sign in and obtain the API Client ID(s) issued to the firm/organization. The API Client ID(s) will be listed on the Application Details or Application Summary pages.

For any questions related to the API Client ID Application, contact the Help Desk.

2. Transmissions and Submissions

2.1 Transmission/Submission Definitions and Limitations

A **transmission** is an XML payload containing the Manifest and one or more submissions. The Manifest contains information about the Transmitter and transmission.

For the purposes of this document, a **submission** is defined as the combination of an Information Return (IR) Submission Group Type and its associated information return.

Transmission Requirements:

- Must consist of one or more submissions. If a Transmission has multiple submissions, each submission may have a different form type or issuer
- Each Submission must have the same form type within the submission
- Each submission must be for the same tax year
- Must not contain multiple Transmission types (Original, Correction, and Replacement)
- The size of the transmission should not exceed 100MB.
- Must include the "TransmissionTypeCd" that identifies the type of transmission as follows:

Allowed Data Value

O' A transmission containing original records

C' A transmission containing correction records

A transmission containing replacement records

Table 2-1: Transmissions Types

Submission Requirements:

- The reported number of information returns on the submission header must match the actual number of information returns in the submission
- Must not contain records of different form types or tax years
- May contain as many records as the 100MB payload size allows

2.2 Uniquely Identifying the Transmission

The XML Schemas include elements designed to uniquely identify information return transmissions, submissions within the transmission, and records within the submission.

Transmitters must uniquely identify each transmission with a **Unique Transmission Identifier** (UTID). The format for the UTID includes various fields separated by colons (:) as follows: da20a4de-1357-11ed-861d-0242ac120002:IRIS:00000::A.

- Universally Unique Identifier (UUID) is an identifier standard defined by the Internet Engineering Task Force (IETF) in Request for Comments (RFC) 4122. It is a mandatory field and is represented by 32 hexadecimal digits, displayed in five groups separated by hyphens. da20a4de-1357-11ed-861d-0242ac120002
- Application ID the Application ID will be hardcoded IRIS and is a mandatory field
- **Transmitter Control Code** is an uppercase alphanumeric field that will contain the Transmitter's TCC and is mandatory

- Reserved is an empty field (no space between colons). *This is for future use and is intentionally blank
- Request Type the Request Type defines the type of request, A for A2A

Every transmission that IRIS receives is validated to ensure that the UTID is unique (has not been previously submitted to the IRIS System, including previously submitted rejected returns) and conforms to the pattern assigned in the XML Schema. If a UTID is missing, not sequential or not unique, the transmission is rejected, and no further processing occurs.

Each submission within a transmission must be unique and will include a **Submission Identifier** (SID) for each submission within the same transmission.

Each record within a submission must be unique and will include a **Record Identifier** (RID) for each record within the same submission.

When an error is identified, the error file provides the SubmissionId or RecordId as well as the Xpath for the error. These identifiers are used to replace submissions and to correct records. To replace a submission, the submission is uniquely identified by combining the transmission ReceiptId and SID, using the pipe symbol as separator. To correct records, the transmission ReceiptId, SID and RID are combined using the pipe symbol as follows:

OriginalUniqueSubmissionId = RECEIPTID|SID

UniqueRecordId = RECEIPTID|SID|RID

Original Unique Submission Identifier (OUSID) and Unique Record Identifier (URID) enable:

- Transmitters to send replacement submissions and corrected records to the IRS
- Both IRS and Transmitters to track transmissions and submissions.

3. Transmitting Information Returns

This section provides an overview of transmission methodology, transmission composition, as well as data structure needed to successfully transmit information returns to the IRS.

3.1 Transmitting via the Application to Application (A2A) Channel

To invoke the A2A channel, Transmitters must have an active IRS account and IRIS A2A TCC, and must be using IRS approved software to submit returns and retrieve acknowledgments.

REST messages are exchanged with IRS using the Web Services request-response model transport mechanism using the HTTPS protocol.

The IRIS system will perform authentication and authorization, threat mitigation, and initial validation on the transmission. IRS Portal will return a fault response, if a transmission contains a threat, if a transmission fails initial validation, or if a connection with the endpoint cannot be established.

The IRIS System validates the REST message and performs additional security checks and Manifest Schema validation on the inbound transmission. If threats are detected or Manifest Schema validation fails, IRS will reject the transmission and inform the Transmitter of the rejection. If no security threats or Manifest schema validation failure are detected, IRIS returns a Receipt ID, the UTID, and a Timestamp to the Transmitter in the REST Response message as part of the synchronous session. The Receipt ID or the UTID is the key information required for a Transmitter to retrieve the acknowledgement for the respective transmission.

Note: The Receipt ID returned to the Transmitter should be kept with the transmission and protected from loss or deletion.

If the Transmitter does not receive the Receipt ID for some reason (e.g., the session times out or is terminated) or it is accidentally lost or deleted, request the Acknowledgement File using the UTID before calling the Help Desk to request the Receipt ID for the transmission. The IRIS Help Desk assister will require the user to identify themselves and the UTID for the transmission in question to provide the respective Receipt ID.

Figure 3-0: Sample XML of Receipt ID through A2A Channel

<IntakeA2AResponse>

<receiptId>2022-68537508811-4386213b8</receiptId>

</IntakeA2AResponse>

3.1.1 Transmission Payload and REST Message via A2A

The IRIS transmission payload is an XML document that contains a REST message with attachments. The document is a REST attachment that contains the IRIS Information Return Submissions.

3.1.2 A2A Consent

For A2A Client IDs to run e-Services API transactions on behalf of e-Services users, those Transmitters must first grant access to A2A Client ID before a client can request an access token on their behalf. Transmitters must perform the following steps to grant access:

1. Login to IRS Consent App.

Note: When logging into the consent app, select the organization associated with your IRIS TCC application on the *Select Your Organization* page *(Do not select your API application.)*

- 2. Select Setup on the API Authorization Management page.
- **3.** Enter your IRIS Client ID on the *A2A Authorization* page.
 - If you have multiple Client IDs, please use the Client ID that was assigned to you for IRIS. You can sign into your API Client ID Application to retrieve your IRIS Client ID on the *Application Summary* page.
- **4.** Grant access to *TEST*, which is needed to test software and electronic transmissions in the IRIS ATS environment.
- **5.** Grant access to *PROD*, which is needed to transmit live return data in the production environment.
- **6.** Retrieve your full IRIS UserID from the *A2A Setup Complete* page. Make note of the UserID. Example of UserID format: "dasmith-345870".
 - Your full IRIS UserID must be used to generate access tokens in Section 3.1.3, Access Token Generation for A2A Access Flow.

For any questions related to the API Client ID Application, contact the e-Help Desk.

3.1.3 Access Token Generation for A2A Access Flow

The authorization process for the IRIS endpoint is a token-based authentication scheme following the OAuth authorization access framework. Transmitters will use JSON WEB TOKENS (JWTs) for both Client Authentication and Authorization Grants. Two JWTs must be provided when requesting an access token.

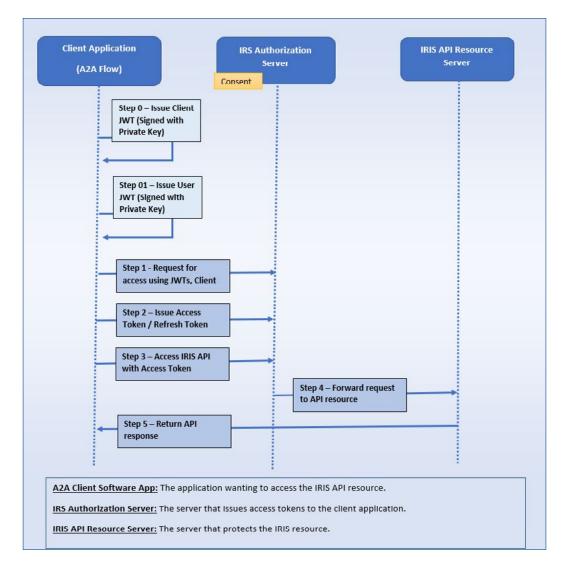
- Client JWT This JWT should represent the client and will be used to authenticate the client.
- User JWT This JWT should represent the resource owner/user that the client is requesting an access token for.

For more background on OAuth and/or JWT Profile(s) for OAuth, please review the following RFCs:

- RFC-6749
- RFC-7523

In A2A flow, the client application requests an access token from the IRS server for API access on a user's behalf. The IRS server verifies the two JWTs using the key(s) the transmitter provided in their JWK file on the API Client ID Application. If the JWTs are valid the IRS server will then verify that the user identified in the User JWT has provided consent to the client identified in the Client JWT to run transactions on their behalf. Figure 3-1 shows steps including the generation of the access token.

Figure 3-1: A2A OAuth Flow – Diagram



The A2A flow illustrated in Figure 3-1 consists of the following steps including the generation of the access token:

Step 0 and 01: The A2A Client App must issue two JWTs and they must be signed with private keys to validate assertion. The JWTs should be in JWT token format using the following for the header and payload claims:

Header

kid (key identifier) – Identifies the key the client used to sign the JWT.

Note: The kid should match the kid that was provided in the JWK file on your API Client ID Application. The kid is also case sensitive.

alg (algorithm) – Identifies the algorithm used to sign the JWT.

Note: RS256 is the supported/expected algorithm.

Payload

- iss (issuer) Identifies who issues the token. Must include the Client ID obtained at registration.
- sub (subject) Subject of the token. Must include:
 - The Client ID for Client JWT token type
 - Example of User ID format "dasmith-345870".
 - Retrieve your Full IRIS UserID by following the steps in Section 3.1.2, A2A Consent.
- aud (audience) the IRS authorization server. The token endpoint of the auth server
- iat (issued at time) Optional. Issued at time. Numeric value of the time the token was created
- exp (expiration time) Numeric value of the time when the token expires. It must be valid for 15 minutes. "iat" and "exp" must be notated in **Epoch time**
 - "iat" and "exp" time is 15 minutes
 - "iat" and "exp" times cannot have a "." in it. (e.g. 16705993.36)
- jti (JWT ID) Required. Provides unique identifier for each JWT. It prevents the JWT from being replayed. This is required by the IRS API Gateway.

Note: In addition to the required claims above, the JWT header should include the "alg" and the "kid" claims, otherwise the JWT will be invalid.

The JWT Grant type request will have the following parameters:

- grant_type required, value should be "jwt-bearer"
- Assertion required, JWT value
- Client assertion type required, value should also be "jwt-bearer"
- Client assertion required, JWT value

Step 1: The A2A Client App requests API access using the **URL** token **endpoint**: https://api. www4.irs.gov/auth/oauth/v2/token

The A2A Client App is required to provide the parameters in Table 3-1.

Table 3-1: Token Endpoint – Parameters

PARAMETER	DESCRIPTION
grant_type	Required: Value must be set to ""urn:ietf:params:oauth:grant-type:jwt-bearer"
assertion:	Required: The assertion used as authorization grant. Must contain a single jwt. {app-signed-jwt}
client_assertion_type:	Required: The value is urn:ietf:params:oauth:client-assertion-type:jwt-bearer
client_assertion:	Required: contains a single JWT. Must not contain more than one JWT

The example in Figure 3-2 shows A2A authorization URL **login endpoint**.

Figure 3-2: Login endpoint HTTPs request – Example

POST /token.oauth2 HTTP/1.1

Host: api.irs.gov

Content-Type: application/x-www-form-urlencoded

grant_type=urn%3Aietf%3Aparams%3Aoauth%3Agrant-type%3Ajwt-bearer

&assertion=eyJhbGciOiJFUzl1NilsImtpZCl6ljE2ln0.

&client_assertion_type=urn%3Aietf%3Aparams%3Aoauth%3Aclient-assertion-type%3Ajwt-bearer

&client_assertion=eyJhbGciOiJSUzl1NilsImtpZCl6IjlyIn0

The client app sends over an access token request using a client ID and signed JWT tokens. Example in Figure 3-3 shows an access token /refresh token POST request sends the JWT tokens.

Note: The example below is using the test endpoint. JWT is represented as XXXX.XXXX. XXXX be sure to replace them with your JWTs before running the example.

Figure 3-3: Access Token\Refresh Token POST request – JWT Grant Type Examples

curl -k -POST https://api.alt.www4.irs.gov/auth/oauth/v2/token \

-H "Content-Type: application/x-www-form-urlencoded" \

-d @- <<EOF

grant_type=urn:ietf:params:oauth:grant-type:jwt-bearer

&assertion=XXXX.XXXX.XXXX

&client_assertion_type=urn:ietf:params:oauth:client-assertion-type:jwt-bearer

&client_assertion=XXXX.XXXX.XXXX

EOF

Step 2: If authenticated successfully, the token server will respond with an HTTP 200. The body of the response will contain an access and refresh token.

The HTTP response with 200 (OK) status will contain the following parameters as defined in Table 3-2.

Table 3-2: Success Response Parameters

PARAMETER	DESCRIPTION	
access_token	The access token will be used as the credentials for accessing the IRIS endpoints.	
token_type	Value is Bearer for all responses that include an access token	
refresh_token	The refresh token is a credential that can be used to obtain additional access token(s).	
expires_in	The lifetime in seconds of the access token. For example, the value "900" denotes that the access token will expire in 15 minutes from the time the response was generated.	

The basic structure of a response is a JSON object that holds the response information. Figure 3-4 shows an example of a successful response.

Figure 3-4: Access Token Successful Response - Example

```
HTTP/1.1 200 OK

Content-Type: application/json;charset=UTF-8

Cache-Control: no-store

Pragma: no-cache
{
    "access_token": "<Access-Token>",
    "token _type": "Bearer",
    "refresh_token": "<Refresh-Token>",
    "expires_in": 900
}
```

Step 3: The A2A Client App now has an access token which can be used to call the IRS A2A endpoints.

Step 4: The e-Services API server checks the access token in the app's request and decides whether to authenticate the app.

Step 5: The e-Services API resource sends response successfully.

Notes

- An Access token and Refresh token are received by the transmitter as a result of successful user validation.
- Access tokens expire 15 minutes after they are issued.
 - You do not need to request a new Access token during a transmission that takes longer than 15 minutes. The access token only needs to be active when the transmission is initiated.
- Refresh tokens expire 60 minutes after they are issued.
 - Refresh tokens have a longer time limit and are used to obtain new access tokens. Refresh tokens will become inactive when you log out.
- You can use access tokens on as many requests as needed as long as the token is still active. You can use your software to leverage the "expires_in" data that is provided when the token is issued and retrieve a new access token as expiration nears.

For any questions related to the API Client ID Application, contact the e-Help Desk.

3.1.4 Operations

This request allows a transmitter to submit information returns using A2A. Details for the request and response message are provided in Table 3-3 and Figures 3-5 to 3-8.

Use the following:

• Live Endpoint: Production environment

• Test Endpoint: ATS environment

Table 3-3: Submit A2A Transmission

Table C of Cability (Er. Hallottilocio)				
	REQU	JEST		
Operation:	Submit Transmission API			
Description:	This service accepts the incoming in	formation return from	A2A (application/xml)	
Protocol:	REST			
Method:	POST			
Live Endpoint (Production):	https://api.www4.irs.gov/IRIntakeA	cceptanceA2A/1.0/ir	isa2a/v1/intake-acceptance	
Test Endpoint (ATS):	https://api.alt.www4.irs.gov/IRIntalacceptance	https://api.alt.www4.irs.gov/IRIntakeAcceptanceA2A/1.0/irisa2a/v1/intake-acceptance		
Resource:	/irisa2a/v1/intake-acceptance			
Headers:	■ Authorization: Bearer <access-to< td=""><td colspan="3">■ Authorization: Bearer <access-token></access-token></td></access-to<>	■ Authorization: Bearer <access-token></access-token>		
Request:	■ Media Type: multipart/form-data ■ Accepts: application/xml			
Response:	application/xml			
Request Attachment:	Content Type: text/xml (accept:text/xml) ContentID: "file" Note: File attachment no more than 100MB. Ensure the payload is attached as a file			
	RESPO	ONSE		
CODE	DESCRIPTION	CONTENT TYPE	RESPONSE BODY	
200	Receipt ID has been generated	application/xml	ReceiptID object	
400	Bad request	application/xml	ErrorResponse object	
404	Not found	application/xml	ErrorResponse object	
500	Internal Server Error	Raw	ErrorResponse object	
503	Service Unavailable Error	application/xml	ErrorResponse object	

of Cf ► ■ ❖ Method POST ▼ /irisa2a/v1/intake-acceptance ung Ed + × WX filename RESOURCE Media Type multipart/form-data ▼ □ Post QueryString + X 🖸 🕒 Name Content type ContentID Cached 1099 A-Ha text/xml 7602 UNKNOWN Auth Headers (0) Attachments (1) Representations (4) JMS Headers JMS Properties (0) Headers (0) Attachments (0) SSL Info Representations (17) Schema JMS (0)

Figure 3-5: A2A Intake Acceptance Illustrative Request

Curl Command Guidance:

curl -i -k -X POST -H "Content-type: multipart/form-data" -H "Authorization: Bearer KEY_IN_ YOUR_TOKEN" -F "file=@YOUR_1099_PAYLOAD_IN_XML_FORMAT; type=text/xml" https://host_url/irisa2a/v1/intake-acceptance

Note: Ensure that your xml payload is in the same location (folder) where the curl command will be executed. For example: if you execute curl from C:\IR Folder, your xml payload must be in the same folder which looks like C:\IR Folder\1099MISC.xml.

Figure 3-6: A2A Intake Acceptance Illustrative Response – Receipt ID has been generated

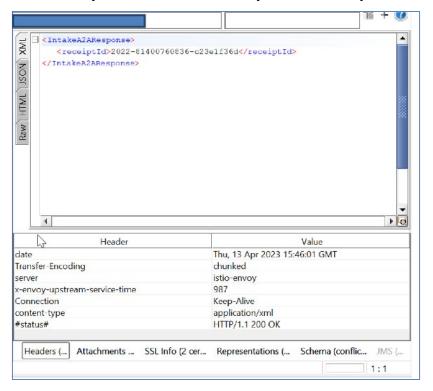


Figure 3-7: A2A Intake Acceptance Illustrative Response - 404 Not Found

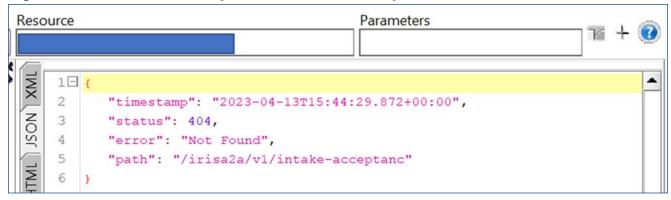
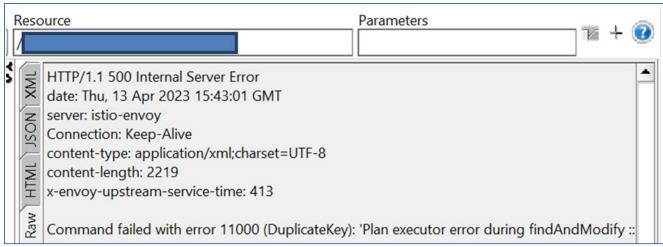


Figure 3-8: A2A Intake Acceptance Illustrative Response – 500 Internal Service Error



This request allows a transmitter to retrieve status and acknowledgement using A2A. Details and response messages are provided in Table 3-4 and Figures 3-9 to 3-11.

Use the following:

- Live Endpoint: Production environment
- Test Endpoint: ATS environment

Table 3-4: GetStatus/Ack

REQUEST		
Operation:	GetStatus/Ack API	
Description:	Endpoint that fetches Transmission Status and Acknowledgement Info	
Protocol:	REST	
Method:	POST	
Live Endpoint (Production):	https://api.www4.irs.gov/IRIntakeAcceptanceA2A/1.0/iris/transstatusorack	

	REQUEST			
Test Endpoint (ATS):	https://api.alt.www4.irs.gov/IRIntakeAcceptanceA2A/1.0/iris/transstatusorack			
Resource:	/iris/transstatusorack			
Headers:	 Authorization: Bearer <access-token></access-token> Content-Type: application/xml Accepts: application/xml 			
Body:	POST ■ XML Payload per Schema			
	RESPONSE			
CODE	POST	CONTENT TYPE	RESPONSE BODY	
200	Transmission or Acknowledgement status response	application/xml	Status object	
404	Invalid Search Parameters	application/xml	ErrorResponse object	
500	Internal Server Error	application/xml	ErrorResponse object	

Figure 3-9: XML Format Get Status/Ack Illustrative Request

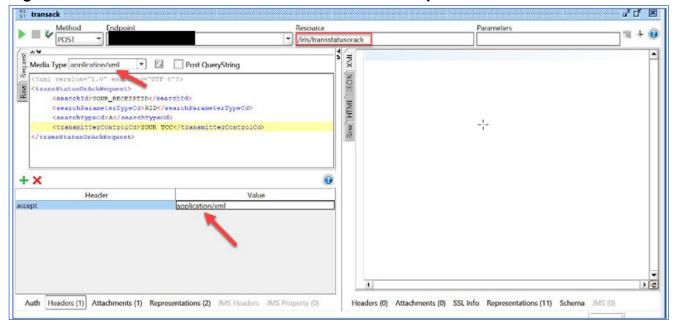


Figure 3-10: XML GetStatus/Ack Illustrative Response - 200 Status Response

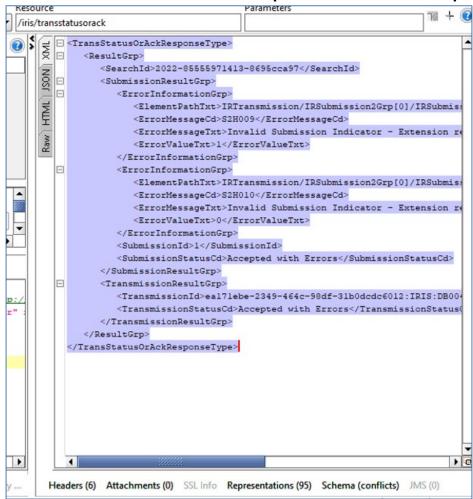


Figure 3-11: A2A GetStatus/Ack Illustrative Response - 400 Bad Request Response

3.2 XML Overview for IRIS

IRIS uses XML, a language that specifies the structure and content of electronic documents and files to define the electronic format of IRIS Information Returns. This section explains some of the elements of an XML document. For detailed information, refer to the IRIS schema package.

3.2.1 IRIS XML Schema Package Structure

This section describes the IRIS XML Schema file structure and how the schemas will be packaged as of the date this publication was issued.

The IRIS XML Library includes the following folders and files:

- COMMON
 - IRS-IRefileTypes.xsd defines simple and complex elements that are reused across the XML payload.
- FORM_TYPES
 - There is a file for each Information Return form, for example IRS-Form1099AType.
 xsd defines the schema for Form 1099-A.
- MSG
 - IRS-IRIntakeTransmissionMessage.xsd defines complex elements at the Transmission (manifest) and Submission levels. It also defines fields from Submission level forms like Form 1096.

In addition to the schema files, there are business rule files. To request IRIS schema and business rules, please see information at: www.irs.gov/irisschema

3.2.2 IRIS XML Structure

The IRIS XML payload is structured in three levels:

- **1.** Transmission: A manifest with information on the transmitter and software used to prepare the package. Contains one or more submissions.
- 2. Submission: Details the type of form, transmittal form elements, and total of form values (if applicable). Contains one or more forms.
- 3. Form: Details the form data elements.

When entering character data into an XML document, it is important to ensure that the specified encoding supports the characters provided. By design, IRIS uses Unicode Transformation Format-8 (UTF-8), without Byte Order Mark (BOM). IRIS does not support any other encoding scheme (for example, UTF-16 and UTF-32).

3.2.3 Prohibited and Constrained Special Characters

Software Developers and Transmitters must not include certain special characters in any character data included in the XML of the REST message. The following special character must not be included in any of the data fields:

Table 3-5: Special Character Not to Be Included in Any Data

Character	Character Description
	Double Dash

IRIS will reject a transmission that contains the special character identified in Table 3-5.

• **Example**: If a record has an address data field containing **NoPlaceWay--Suite 4**, then the transmission must not include the double dash, so that the data field instead contains **NoPlaceWay-Suite 4**.

The following special characters must be escaped before they are included in any data fields that allow the characters:

Table 3-6: Allowable Characters

Character	Character Description	Character Allowed?	Escape Characters	Escape Character Allowed
&	Ampersand	Rejected	&	Allowed
	Apostrophe	Rejected	'	Allowed
<	Less Than	Rejected	<	Allowed
"	Quotation Mark	Rejected	"	Allowed
>	Greater Than	Allowed	>	Allowed

Additional elements may also be restricted by XML schema data element definitions. For example, "PersonFirstNm", "PersonMiddleNm", and "PersonLastNm" cannot contain any special characters except "-". If a record being put into "PersonLastNm" has a last name containing an apostrophe, such as "O'Malley", the transmission cannot include the apostrophe or the escaped apostrophe characters. The apostrophe must be stripped, and the last name data must be entered as "OMalley". The transmission will be rejected if the apostrophe is used. Another example is the # character. It is permitted in Business Name but not for Person Name. As a rule, the schema definitions must be followed.

3.2.4 Tag Names

Each field in the transmission is identified using an XML tag name within the XML schema.

Tag names were created using the following conventions:

- A meaningful phrase with the first letter of each word capitalized and using no spaces (upper Camel case)
- A length of not more than 30 characters
- Standard abbreviations to meet the tag name 30-character limit

The Tag Names, also known as Element Names, were standardized by IRS for all information return forms. A notional example of a simple XML element that identifies the record number in a submission would be:

<xsd:element ref="UniqueRecordId" minOccurs="0" maxOccurs="unbounded"/>

For example, below is a notional example of a complex XML element that identifies all the data element groups allowed directly in a transmission.

Figure 3-12: IRTransmission Schema Structure

```
<xsd:complexType name="IRTransmissionType">
   <xsd:annotation>
       <xsd:documentation>
           <Component>
               <DictionaryEntryNm>IR Transmission Type</DictionaryEntryNm>
               <MajorVersionNum>1</MajorVersionNum>
               <MinorVersionNum>1</MinorVersionNum>
               <VersionEffectiveBeginDt>2021-07-03</versionEffectiveBeginDt>
               <VersionDescriptionTxt>Initial Version/VersionDescriptionTxt>
               <DescriptionTxt>The elements associated with IR transmission/DescriptionTxt>
           </Component>
       </xsd:documentation>
   </xsd:annotation>
   <xsd:sequence>
       <xsd:element name="IRTransmissionManifest" type="IRTransmissionManifestType"/>
       <xsd:element name="IRSubmission1Grp" type="IRSubmission1GrpType" minOccurs="0" maxOccurs="unbounded"/>
       <xsd:element name="IRSubmission2Grp" type="IRSubmission2GrpType" minOccurs="0" maxOccurs="unbounded"/>
   </xsd:sequence>
</xsd:complexType>
```

3.2.5 Attributes

Attributes provide additional information or describe a constraint of a data element.

 The first letter of the first word of an attribute name is lower case; the first letter of each subsequent word is capitalized (lower camel case).

For instance, in the example of the complex XML element IRSubmission1Grp above, the attribute maxOccurs="unbounded" identifies that there is no limit to the number of IRSubmission1Grp (submissions including Form 1096) that can be included in the XML. (However, the maximum number of submissions is constrained by the payload size limit of 100MB.)

3.2.6 Repeating Group

Repeating groups are specified in XML schema definitions using the minOccurs and maxOccurs facets on sequence or choice definitions. An example of a repeating group for Form 1099 submissions is as follows:

<xsd:element name="IRSubmission1Grp" type="IRSubmission1GrpType" minOccurs="0" maxOccurs="unbounded"/>

This element 'IRSubmission1Grp' allows a minimum of 0 or maximum of unlimited groups. Beginning and ending tags are necessary for each group submitted. Since the minimum is 0 this element is optional and could be skipped, such as if the transmission includes only submissions belonging to 'IRSubmission2Grp'.

The reference element is of Type IRSubmission1GrpType. This is a complex data element that includes complex elements IRSubmission1Header and IRSubmission1Detail.

Figure 3-13: Example of the IRSubmission1Grp Repeating Group

```
<xsd:complexType name="IRSubmission1GrpType">
    <xsd:annotation>
        <xsd:documentation>
           <Component>
                <DictionaryEntryNm>Information Return (IR) Submission Group Type</DictionaryEntryNm>
                <MajorVersionNum>1</MajorVersionNum>
                <MinorVersionNum>0</MinorVersionNum>
                <VersionEffectiveBeginDt>2015-10-27</VersionEffectiveBeginDt>
                <VersionDescriptionTxt>Initial version/VersionDescriptionTxt>
                <DescriptionTxt>A group that wraps the data related to a (IR) information return submission/DescriptionTxt>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
       <xsd:element name="IRSubmission1Header" type="IRSubmission1HeaderType"/>
        <xsd:element name="IRSubmission1Detail" type="IRSubmission1DetailType" minOccurs="0"/>
    </xsd:sequence>
</xsd:complexType>
```

3.2.7 IRIS Schema and Business Rules

A schema is an XML document that specifies the data elements, structure and rules for the transmission, submission, and form levels. In addition to formats defined by schemas, information returns must also adhere to business rules, which provide a second level of validation for information returns processed by the IRIS System.

IRS created one XML schema for the Transmission and Submission levels and one XML schema for each form. Each schema also has a respective set of business rules that are used during IRIS validation.

Within the XML schema, data elements are the basic building blocks of an XML document. Schemas recognize two categories of element types: simple and complex. A simple type element contains only one data type and may only have documentation attributes, such as description or line number. A complex type element is an element that has one or more attributes or is the parent to one or more child elements.

The Transmitter and Issuer have the responsibility to provide information as specified by IRS forms, instructions and regulations. **Note:** The software used to transmit IRIS documents to IRS must be capable of putting the information in the specified schema while also abiding by all applicable business rules.

All data elements present by virtue of an opening and a closing tag should contain a value. **Do not** include tags for optional data elements that are empty.

Each year, new legislation and/or improvements to IRS programs impact IRS forms and processing procedures. IRS evaluates these changes to determine if updates to the XML schemas and business rules are necessary.

When the IRIS schemas and business rules are available, the IRIS schema and business rule page on irs.gov will explain how to request them through eServices. Software Developers are not required to retest updated versions for a given tax year. However, IRS strongly recommends the use of IRIS ATS to retest when software is updated.

Note: If there are critical changes required due to late legislation changes, national disasters, or errors identified during testing or production, IRS may issue updated XML schemas and business rules after December and during the processing year.

General Information about Version Numbers follows:

Each new schema for a tax year has a VersionNum and a VersionDt in the metadata of the IRS- IRIntakeTransmission Message.

- Each information return's schema version has an associated set of business rules. There may be additional business rule changes so the latest business rule version and schema version number may differ.
- The "FormnnnDetailType" complex element includes a documentation element and dictionary entry name as well as the effective begin date for the XML Schema as shown in Figure 3-14.

Figure 3-14: IRIS Form 1099-NEC Detail Type Documentation

- Each business rule document's version number identifies the latest version in effect.
- The "Active Validating Schema Version" specifies the business rules and schema version that will be used to validate an information return that has been received by IRS during a timeframe. This provides a mechanism for different versions to be accepted at the same time. It also enables an older version to be validated against a newer version's set of schemas and business rules.

3.2.8 Validating Schema Versions

Throughout the year, multiple versions of XML Schemas and Business Rules may be available depending upon whether a change to the schema is major or minor. IRIS may not require that the schema version used to submit the return data match the schema version used by IRIS during validation. In general, there is one active validating schema version for each return type in a tax year. The Schema/Business Rules page will include the Start dates, if applicable, for ATS and Production. IRS strives to limit the number of schema and/or business rule revisions, especially after production opens. A Quick Alert is issued when a new version of the XML schemas and business rules is available through the e-Services mailbox.

Minor Schema Changes – When IRS issues revised schemas for an information return type and changes the increment for the minor number, IRIS continues to accept returns composed using previous schema versions. When the minor number is changed, IRS allows Software Developers to decide for themselves whether they need to use the latest version or not based on what is included in their tax preparation software and what changes were made to the schemas.

Returns may be composed using previously published schema versions, but IRS will only validate against the "active validating schema version" when the return is processed. For example:

If the current schema version is 1.0 and the schema change is minor, IRS will assign the new number 1.1. The active validating schema version is 1.1. IRIS will continue to accept returns composed using version 1.0. However, all returns (whether composed with version 1.0 or 1.1) will be validated with the latest version, 1.1.

Major Schema Change – When IRS issues revised schemas for an information return type and changes the increment for the major number, all returns must be composed by software using the latest version. If information returns are composed using previously published schema versions, they will not validate against the active validating schema version when the return is processed and will be rejected.

For example, if the current version is 1.1 and IRS determines it can no longer accept information returns composed using schema version 1.1 (or v1.0), it will assign the new major number 2.0. The active validating schema version is 2.0. Returns submitted with version 1.1 or earlier will be rejected for using an unsupported schema version.

Software Developers and Transmitters should select the applicable form type on the IRIS Schemas and Business Rules page to get information about all active and prior year schemas and business rules used by IRIS Production and ATS.

3.2.9 Example of Schema Versioning

Below is a sample of the IRIS forms XML schema versioning information in the IRIntakeT-ransmissionMessage metadata:

Figure 3-15: IRIS IRIntakeTransmissionMessage

3.3 Filing Prior Year Returns

When filing prior years, please use the schemas and business rules that are in effect for that tax year. Do not use the current year schemas and business rules. In addition, do not mix or combine tax years in the same transmission or submission. Use the latest prior year schema and business rule package available through the e-Services mailbox.

3.3.1 Calculating Total Reported Amount

Amounts to include to calculate Total Reported Amount		
Form W-2G	Box 1	
Form 1097-BTC	Box 1	
Form 1098	Boxes 1 and 6	
Form 1098-C	Box 4c	
Form 1098-E	Box 1	
Form 1098-F	Box 1	
Form 1098-Q	Box 4	
Form 1099-B	Boxes 1d and 13	
Form 1099-C	Box 2	
Form 1099-CAP	Box 2	
Form 1099-DIV	Boxes 1a, 2a, 3, 9, 10 and 12	
Form 1099-INT	Boxes 1, 3, 8, 10, 11 and 13	
Form 1099-K	Box 1a	
Form 1099-LS	Box 1	
Form 1099-LTC	Boxes 1 and 2	
Form 1099-MISC	Boxes 1, 2, 3, 5, 6, 8, 9, 10, 11 and 14	
Form 1099-NEC	Box 1	
Form 1099-OID	Boxes 1, 2, 5, 6 and 8	
Form 1099-PATR	Boxes 1, 2, 3 and 5	
Form 1099-Q	Box 1	
Form 1099-QA	Box 1	
Form 1099-R	Box 1	
Form 1099-S	Box 2	
Form 1099-SA	Box 1	

Amounts to include to calculate Total Reported Amount		
Form 1099-SB	Boxes 1 and 2	
Form 3921	Boxes 3 and 4	
Form 3922	Boxes 3, 4 and 5	
Form 5498	Boxes 1, 2, 3, 4, 5, 8, 9, 10, 12b, 13a and 14a	
Form 5498-ESA	Boxes 1 and 2	
Form 5498-SA	Box 1	

4. Validating the Transmission and Return Data

This section explains how the IRIS System will perform validations of the transmission and return data via Schema validations and business rule checks. When IRIS receives a transmission, the following tasks are executed in this order:

- **1.** Verify that the UTID is unique for the Transmitter Control Code (TCC) this happens before TCC is validated done by intake service.
- 2. The transmission payload (xml data) is read and written to persistent storage.
- 3. The Receipt ID and Timestamp are generated.
- **4.** The Receipt ID, Timestamp, and Unique Transmission ID are returned to the Transmitter.
- 5. Schema Validation is executed on the Input payload.
- 6. The Payload is queued for processing against the IRIS Business Rules.
- 7. Basic Manifest validations such as TCC and Software ID validations are performed.
- 8. Verify Transmission Type Code, Tax Year and Transmitter and Vendor Information.
- 9. Submission and Form contents are validated as per IRIS Business Rules.
- 10. Errors identified during processing against the IRIS schema and Business Rules are written to the IRIS database and inserted into error messages. An Error Information Group will be returned to the Transmitter in the Acknowledgement.

When errors are identified with the transmission or IRIS cannot read or write the payload to persistent storage, the transmission will be rejected, and the appropriate error code and description will be returned to the Transmitter in the REST Response message. If the payload fails Schema validation, the transmission will be rejected. The appropriate error code and description relevant to Schema validation will be returned when the Transmitter retrieves the Acknowledgement for the respective transmission. When business rule errors are identified during processing of the payload, IRIS will record the error codes and descriptions and return those errors when filer invokes the Acknowledgment Service as REST response message.

4.1 Transmission Validation

This section describes the checks that are made on the transmission and the errors that will be returned to the Transmitter if the transmission is rejected before it can be saved for further processing.

See Section 6.2.1 for Pre-Receipt Validation Error List

4.1.1 Missing or Multiple Attachments

Checks for missing or multiple attachments occur during the transmission synchronous process. IRIS first validates there is at least one submission in a transmission payload. If there is no submission in a transmission, IRIS will reject the transmission and return the appropriate error code and error description.

4.1.2 Error Reading or Persisting the Transmission Payload

If IRIS cannot read, or persist the data, IRIS will reject the transmission and return an error code.

4.1.3 Manifest Verification Failure

Manifest verification checks occur after receipt processing (reading and persisting the XML payload).

IRIS will perform the following checks against the data included in the Manifest and return any errors found when the Transmitter retrieves the Acknowledgement for the transmission:

- Verify that the Transmitter Control Code is valid and authorized to transmit the information returns included in the transmission
- Verify Transmission Type Code, Tax Year and Vendor Information
- Verify Foreign Entity Indicator if Foreign Address is present in payload
- Verify Software ID is authorized and set to production

4.1.4 Manifest and XML Payload Schema Validation Failure

Manifest schema validation occurs before the Transmitter has successfully submitted the transmission to IRS. Transmission Manifest, submission headers and form data will be validated against the schema after the Transmitter has successfully submitted the transmission to IRS. IRS recommends each return be run against a validating parser prior to being submitted to IRS. This pre-validation is intended to identify most potential error conditions and minimize the chance of receiving errors. A validating parser compares the XML document to the defined elements and attributes of the schemas to ensure a well-formed document that adheres to the XML Schema is transmitted to IRS. Schemas provide the basic definition for elements (i.e., field length, data type, prescribed patterns, enumerations, etc.). Data integrity depends on each data element complying with the data format specifications. If IRIS preparation software uses IRS-defined XML schemas to create the XML information return, there should be no data format errors in the return. The IRIS System verifies this by validating each return in the transmission payload against the schemas. The information return documents must conform to the version of the XML schema they specify. IRIS conducts XML schema validation on the payload before processing. Any schema validation failures are reported back to the originating entity. If the XML does not conform to the XML Schema (missing required elements or XML not well formed), IRIS will reject the transmission. The Acknowledgement Service REST Response contains the error codes, the error descriptions, and the XPath reference to the element found to be in error.

5. Acknowledgement Response

Once the transmission is received, the payload is read and written to persistent storage, and checks are made on the Transmission Manifest Data, then the Receipt ID, Timestamp, and Unique Transmission ID are returned to the Transmitter as part of the synchronous session. The XML payload is then queued for processing within IRIS.

When IRIS receives a status request, an Acknowledgement response is generated indicating the status of the transmission (see below) and is available for the Transmitter to retrieve. If there are no errors found during validation, the Error response is not included in the Acknowledgement and the transmission processing status will be "Accepted".

The status of the transmission includes one of the following:

- Accepted IRS has successfully processed and accepted the transmission
- Rejected IRS rejected the transmission as it could not be processed successfully. A list of errors is provided as part of the Acknowledgement Response
- Processing IRS has not completed processing the transmission
- Partially Accepted IRS has successfully processed the transmission (accepted and rejected one or more submissions contained in the transmission). A list of errors will be provided as part of the Acknowledgement Response
 - No fatal errors were identified while processing the transmission metadata
 - At least one submission within the transmission was accepted (with or without errors)
 - o At least one submission within the transmission was rejected as unusable data
- Accepted with Errors –IRS has successfully processed and accepted the transmission with some errors. A list of errors will be provided as part of the Acknowledgement Response
- Not Found The Receipt ID or the UTID in the request was not found

The Transmission Acknowledgement will include:

- Transmitter Control Code
- Unique Transmission ID
- Form Type Code
- Timestamp
- Transmission Status Code: Accepted, Rejected, Processing, Partially Accepted, Accepted with Errors, Not Found
- Error Information Group (if errors are identified)

5.1 Acknowledgement Schema

The table below shows the structure of the Acknowledgement schema:

Table 5-1: IRIS Forms Acknowledgement Schema Elements

Element Name	Explanation
SearchId	The search term sent in the request to the Acknowledgement Service. Either the Receipt ID or Unique Transmission ID.
TransmissionResultGrp. TransmissionStatusCd	One of: Accepted, Rejected, Processing, Accepted with Errors, Partially Accepted, Not Found
TransmissionResultGrp. ErrorInformationGrp	A specific business rule number and description associated with a Transmission level error
SubmissionResultGrp. SubmissionStatusCd	One of: Accepted, Accepted with Errors, Rejected, Processing, Not Found
SubmissionResultGrp. ErrorInformationGrp	A specific business rule number and description associated with a Submission level error
SubmissionResultGrp. RecordResultGrp. ErrorInformationGrp	A specific business rule number and description associated with a Record level error

The following elements are included in the Error Information Group:

- Error Message Code (Business Rule number)
- Error Message Text (Business Rule description)
- Error Value Text (Value of element that caused the error)
- Element Path Text (Path identifying the specific data element)

Note: The XPath identifies the specific data element and instance in an enumerated group, if applicable, causing the violation.

6. Corrections and Replacements

Corrections can only be made to previous submissions/records that have been "Accepted" or "Accepted with Errors". Corrected information returns MUST be filed electronically if the original return was required to be submitted electronically. Originals filed in FIRE must be corrected in FIRE and originals filed in IRIS A2A must be corrected in IRIS A2A. Transmitters should file corrections with IRS as soon as possible and furnish a copy of the corrected return to the Recipient. File corrected returns to comply with filing requirements. Refer to General Instructions for Certain Information Returns for details.

Note: Errors on the Manifest and Submission Headers with "Report Error" severity may not be corrected. These are for informational purposes only. The missing data should be provided in subsequent transmissions.

6.1 Corrections Process

The correction process can be utilized when:

- IRS notifies the Transmitter of one or more errors on the information returns (Form1099ADetail) filed.
- The Transmitter identifies one or more errors on the information returns (Form1099ADetail) filed.
- The Recipient reports an error.

Do not file an original again, as this may result in duplicate reporting.

The UniqueRecordId assigned by IRIS allows corrections to be linked to the original information return. You must provide the UniqueRecordId.

For example: Form 1099-A data located in Submission 10, Record 2 of a transmission would have a UniqueRecordId as follows:

2022-63385508791-4a6c57eda|10|2

6.1.1 Transmitting Corrections

Most errors in IRIS can be corrected by submitting 1-Step corrections, unless the wrong form was submitted:

1-Step Correction errors	2-Step Correction errors
 Recipient name and/or TIN incorrect or missing Form should not have been filed for that recipient. (In this instance, enter "0" for all amounts on correction.) Incorrect payment amounts in a record Incorrect code or indicator value 	■ Incorrect form type, e.g.,1099-MISC filed rather than 1099-NEC.

1-Step Correction errors

Follow the steps below for a 1-step correction:

- Prepare a new transmission with TransmissionTypeCd "C" in the Manifest. (Do not mix original and corrected records in the same transmission payload.)
- 2. Include an IRSubmission1Grp for each form type and issuer being reported. (The IssuerDetail in the SubmissionHeader(s) must be the same as the original submission.)
- **3.** Include the complete record for correction. Do not submit only the corrected data.
- 4. The CorrectedInd in each correction record must be set to "1". Include the PrevSubmittedRecRecipientGrp with the UniqueRecordId. This element is optional in the schema but enforced with a business rule. It must be present on all corrected records, or the submission will reject. Recipient Name and TIN of the original record are optional in this group, but ensure the correction is associated with the original record.

Note: An original is only corrected once. If after a correction is filed and accepted, an additional correction is needed, use the UniqueRecordId associated with the most recently accepted correction.

2-Step Correction errors

The steps below for a 2-step correction are only used if the original was filed on the wrong form type:

- **1.** Follow steps for a one-step correction, entering "0" in all payment amounts.
- Once the first correction is Accepted, submit a new transmission with TransmissionTypeCd "O" in the Manifest.
- Include an IRSubmission1Grp with the correct form type in the IRSubmission1Header and IRSubmission1Detail.

6.2 Rejected Transmissions

Transmissions can be "Rejected" before or after a ReceiptId is issued. Transmissions rejected before ReceiptId is issued (pre-receipt validation) cannot be replaced by replacement process. Replacement only applies to Transmissions or Submissions rejected by IRIS after pre-receipt validation.

6.2.1 Transmissions Rejected in Pre-Receipt Validation

When a transmission is rejected by IRIS before a ReceiptId is issued, the Transmitter must fix the problem that caused the rejection and resend the transmission.

Note: When resubmitting, use the same "TransmissionTypeCd" that was used when the transmission was rejected by IRIS to resubmit the file. Verify the transmission size does not exceed the maximum size limit of 100mb.

Table 6-1: Pre-Receipt Validation Errors

Error	General Description	Severity	Action
HTTP/1.1 400 Bad Request	Transmission includes Duplicate UTID Submitted	Request Rejected	Transmitter notified via the http response (Unable to process request, check for duplicate data) Transmitter Resolves
HTTP/1.1 400 Bad Request	Transmission includes 'TestCd': "T" to production environment	Request Rejected	Transmitter notified via the http response (Found invalid Test Code, found T, P is required) Transmitter Resolves
HTTP/1.1 400 Bad Request	Transmission includes 'TestCd' that's not': "T" or "P"	Request Rejected	Transmitter notified via the http response (Unable to process request, check Test Code) Transmitter Resolves
HTTP/1.1 400 Bad Request	Manifest is not present in transmission	Request Rejected	Transmitter notified via the http response (Unable to process request) Transmitter Resolves
HTTP/1.1 400 Bad Request	No submissions in the transmission	Request Rejected	Transmitter notified via the http response (Unable to process request) Transmitter Resolves
Schema Validation Error	Error occurred validating schema validation – data elements are missing or schema is not well formed	Transmission Rejected	Transmitter notified via the Acknowledgment (i.e. field is missing but is required) Transmitter Resolves

6.2.2 Transmissions/Submissions Rejected by IRIS

Additional business rule checks occur after the Transmitter has successfully submitted the transmission to IRIS.

Error details returned to Transmitters will show exactly which business rules were violated by the transmission.

Manifest level: TMFSTXXX or FTMFSTXXX

Submission and Manifest level: SMFXXX

Submission1Header: S1HXXXSubmission2Header: S2HXXX

Shared Form: Shared IRForm XXX

Individual Forms: F1097BTCXXX, F1098XXX, F1099BXXX, etc.

Note: The first "XXX" is sequential numbering of Business Rule.

Certain business rules (those with a severity of "Report Error and Reject if Over Threshold") may cause a rejection of the entire submission, if violated in more instances than the threshold allows. If this happens, the Transmitter will receive an Error File containing all the rules that were violated plus a generic "Threshold Rule" error for each threshold that was exceeded. It is the responsibility of the Transmitter to correct all business rule errors and retransmit a replacement for rejected submissions.

Business rule validation provides Transmission level rejections along with submission level rejections. None of the records included in a transmission/submission that are rejected are maintained in IRS data stores. Thus, when a transmission or submission is rejected by IRIS, a replacement transmission or submission must be submitted including all data submitted in the original file.

A complete Transmission can be rejected for the following reasons:

- Business rule failures at the transmission level (Manifest error)
- All Submissions within the transmission are rejected.
- Note: The above situations require the Transmitters to replace the entire Transmission.

A Transmission can be Partially Accepted when one or more submissions, but not all, are rejected.

A submission can be rejected for the following reasons:

- Business Rule failures at submission level, e.g., Submission Header with incorrect Tax Year resulting in submission rejection.
- Business Rule failure at form level (e.g., a value on a form must be present or threshold rule failure)

Note: These situations require the Transmitters to replace only the rejected Submission(s).

6.3 Replacing an Original Transmission that Rejected

Transmitters can replace rejected Transmissions as well as rejected Submissions. A replacement transmission must contain all the records submitted to IRS for processing in the rejected Transmission or Submission that is being replaced. Transmitters should submit an acceptable replacement transmission no later than 60 days after the date the rejected status of the original transmission was available. The 60-day adjustment applies whether the original transmission was received before or after the information return due date. When an acceptable replacement transmission is received within 60 days, the file will be treated as filed on the original transmission received date. If an acceptable replacement transmission is received after the 60 days, the file will be treated as filed on the date the replacement transmission is received. In this way, any applicable late-filing penalty is calculated based on the date the transmission was received.

Note: Transmitters should wait until a transmission is processed and the Acknowledgement status is either 'Rejected' or 'Partially Accepted' by IRS before submitting a replacement transmission or submission.

IRIS requires specific identifiers in replacements to reference the original rejected transmission/submission. When replacing a transmission, the Manifest XML Schema includes an element "OriginalReceiptld" which references the Receipt ID of the original transmission that is being replaced. When replacing a submission, the Submission Header element "Original-UniqueSubmissionId" is used to reference the Submission ID of the original submission that is being replaced. When submissions are replaced, the Manifest data element "OriginalReceiptId" is not included in the schema.

Only transmissions that contained original records ("*TransmissionTypeCd*" is 'O') that were rejected require a replacement transmission. When a transmission containing original records is rejected ("*TransmissionTypeCd*" is 'O'), the Transmitter must fix the problem that caused the rejection and resend the transmission as a replacement ("*TransmissionTypeCd*" is 'R'). If a transmission containing correction records is rejected ("*TransmissionTypeCd*" is 'C'), the Transmitter must fix the problem that caused the rejection and resend the transmission following correction procedures ("*TransmissionTypeCd*" remains 'C').

An individual original submission within a transmission can be rejected by IRS in a Partially Accepted transmission. The original submission should be fixed and retransmitted in a replacement transmission ("*TransmissionTypeCd*" is 'R').

Exception: If a submission containing only Form 8809 is rejected, file an original again, not a replacement.

6.3.1 Replacing an Original Transmission that Rejected

If the original Transmission was "Rejected", then replace the entire Transmission by using the Receipt ID from the Rejected Transmission to populate the Manifest Data element 'Original-ReceiptId' of the Replacement Transmission. Replacement transmissions must include the following requirements (see schema and business rules for additional details):

- A "*UniqueTransmissionId*" for the replacement transmission in the Manifest that should be unique for each transmission
- "TransmissionTypeCd" in the Manifest should be "R" for replacements

Include the "OriginalReceiptId" data element identifying the original transmission that is being replaced.

Do not:

- Include any additional or new submissions
- Include the "OriginalUniqueSubmissionId" in the Submission Header
- Try to replace individual submissions within a rejected transmission
- Try to replace a transmission that was not rejected
- Try to replace a transmission that has been successfully replaced

6.3.2 Replacing a 'Replacement' Transmission that Rejected

If an original Transmission is rejected and the Replacement Transmission is also rejected, then replace the first (Earliest) rejected Transmission in the chain by populating the Manifest Data element 'OriginalReceiptId' with the Receipt Id that references the EARLIEST rejected Transmission in the chain.

Replacement Transmissions must include the following requirements (see schema and business rules for additional details):

- A "UniqueTransmissionId" for the replacement transmission in the Manifest that is unique for each transmission
- "TransmissionTypeCd" in the Manifest should be "R" for replacements
- Include the "OriginalReceiptId" data element identifying the Receipt Id that references
 the first rejected transmission in the chain, which contained a TransmissionTypeCd of "O".
- Replacement transmission should not include any additional or new submissions

Do not:

- Include the "OriginalUniqueSubmissionId" in the Submission Header
- Try to replace a rejected replacement transmission
- Try to replace individual submissions within a rejected transmission
- Try to replace a transmission that was not rejected
- Try to replace a transmission that has been successfully replaced

6.4 Replacement Submissions

Replacement submissions must include the following requirements (see schema and business rules for additional details):

- A "UniqueTransmissionId" for the replacement transmission
- "TransmissionTypeCd" in the Manifest should be "R" for replacement
- Include the "OriginalUniqueSubmissionId" in the Submission Header identifying the submission that is being replaced
- Duplicate replacement Submission (s) included within the same transmission will be rejected
- Replacement transmission should not include any new submissions

Do not:

Include the "OriginalReceiptId" data element in the Manifest

6.4.1 Replacing Submission Within a Partially Accepted Transmission

If the Original Transmission was Partially Accepted, then replace the individual Submission(s) that were rejected by populating the data element "OriginalUniqueSubmissionId" in

each replacement Submission (SubmissionHeader) with the "UniqueSubmissionId" from the Submission Header of the rejected Submission(s). When filing replacement Submission(s) for submissions that were rejected within a Partially Accepted Transmission, adhere to the following requirements (see schema and business rules for additional details):

- A "UniqueTransmissionId" for the replacement transmission
- "TransmissionTypeCd" in the Manifest should be "R" for replacement
- Include the "OriginalUniqueSubmissionId" in the Form Data File identifying the submission that is being replaced from the original Partially Accepted transmission
- Duplicate replacement Submission ID(s) included within the same transmission will be rejected
- Replacement transmission should not include any new submissions

Do not:

- Include the "OriginalReceiptId" data element in the Manifest
- Submit a submission-level replacement for a transmission that was rejected

6.4.2 Replacing Submission from a Partially Accepted Original Transmission when the Replacements Transmission or Submission was Rejected

If the original Transmission is Partially Accepted, and the Transmission with the replacement submissions is Rejected or Partially Accepted, then transmit another replacement transmission using the Submission IDs from the original rejected submissions. In either case always replace the first rejected submission in the chain of rejected submissions when one or more replacements are rejected.

Note: First rejected Submission(s) in the chain of rejections does not relate to the order of submission within an individual Transmission.

If filing a replacement Submission from a Partially Accepted Transmission where the replacement was rejected, adhere to the following requirements (see schema and business rules for additional details):

- "UniqueTransmissionId" for the replacement transmission
- "TransmissionTypeCd" in the Manifest should be "R" for replacement
- Include the "OriginalUniqueSubmissionId" in each replacement submission's Submission Header with the Unique Submission ID from the Submission Header within the earliest rejected Submission in a sequence within a Partially Accepted Transmission that is being replaced
- Duplicate replacement Submission ID(s) included within the same transmission will be rejected.
- Replacement transmission should not include any new submissions

Do not:

- Include the "OriginalReceiptId" data element in the Manifest
- Replace a submission within a Submission Replacement Transmission that was rejected

7. Extension of Time to File

You may transmit a request for an automatic 30-day extension of time to file forms included in IRIS (see Section 1). The Transmission should include "*IRSubmission2Grp*" with the "*IRSubmission2Header*" and "*Form8809Detail*". Extensions cannot be corrected or replaced. If an extension is rejected, it must be retransmitted as an original request.

For Form W-2 and Form 1099-NEC reporting Nonemployee Compensation, filers can only request a non-automatic extension of time, which must be filed on paper Form 8809. An automatic 30-day extension is not available. Treasury Decision (TD) 9838.

7.1 Request for an Additional Extension of Time to File

Under certain hardship conditions you may apply for an additional 30-day extension if the initial extension of time to file is granted, and the additional extension is filed before the expiration of the automatic 30-day extension. The additional 30-day extension request can only be submitted by filing a paper Form 8809.

7.2 Extension of Time to Provide the Recipient Copy

The due date for furnishing the information returns to the recipient vary. The written request for an extension of time to provide the Recipient copy must be postmarked by the date on which the statements are due to the Recipients. The letter must contain the following: Issuer, Name, TIN, Address, Type of Return, Reason for Delay, statement saying the request is for Recipient copies, and signature of the Issuer or Authorized Agent.

You may request an extension of time to furnish the statements to recipients by faxing Form 15397, Application for Extension of Time to Furnish Recipient Statements to:

Internal Revenue Service Technical Services Operation

Attn: Extension of Time Coordinator

Fax: 877-477-0572 (International Fax: 304-579-4105)

Your request must be received no later than the date on which the statements are due to the recipients. If your request for an extension is approved, generally you will be granted a maximum of 30 extra days to furnish the recipient statements.

8. Waiver from Filing Electronically

Final regulations were issued February 21, 2023, by the Department of the Treasury and the Internal Revenue Service. Treasury Decision (TD) 9972 amend the rules for filing returns and other documents electronically (e-file). These regulations reduce the 250-return threshold to generally require electronic filing by filers of 10 or more returns in a calendar year beginning in Tax Year 2023, Processing Year 2024. Details on this regulation can be found here: IRS and Treasury final regulations on e-file.

To determine if you meet the 10 or more threshold to electronically file:

- Identify how many returns of any type covered by TD 9972, you need to file during a calendar year
- If 10 or more, you MUST file electronically

Example of return types covered by TD 9972 (not all inclusive):

- Information returns (Forms W-2, Wage and Tax Statement and Form 1099 Series)
- Certain income tax returns (example, Form 1065, U.S. Return of Partnership Income, or Forms 1120-S, U.S. Income Tax Return for an S-Corporation)
- Employment tax returns (example, Forms 940, Employer's Annual Federal Unemployment (FUTA) Tax Return, Forms 941, Employer's Quarterly Federal Tax Return)
- Certain excise tax returns (example, Form 4720, Return of Certain Excise Taxes on Charities and Other Persons Under Chapters 41 and 42 of the IRC.)

Refer to Treasury Decision (TD) 9972 for more information.

The electronic filing requirement does not apply if you apply for and receive a hardship waiver. If the filer is required to submit information returns electronically and fails to do so, and there is not an approved waiver on record, the filer may be subject to a penalty for failure-to-file electronically.

Form 8508 – Request for Waiver from Filing Information Returns Electronically, is used to request a waiver. A separate **Form 8508** must be submitted for each issuer. **Form 8508** – May be filed beginning in January of each year and should be submitted at least 45 days before the due date of the information return. The form cannot be filed electronically and must be submitted to the address shown in the instructions for **Form 8508**.

Refer to Form 8508 for detailed instructions on completing the form.

9. Combined Federal/State Filing (CF/SF) Program

The Combined Federal/State Filing (CF/SF) Program was established to simplify information returns filing for issuers. Through the CF/SF Program, the IRS electronically sends information returns (original and corrected) to participating states.

If you participate in the IRS CF/SF Program, you may report withholdings and payments for as many states as needed. If you made a payment to a recipient that's reportable to more than one state, you must prorate the amounts for each state.

The following information returns are available for filing under the CF/SF Program:

Form 1099-B, Proceeds from Broker and Barter Exchange Transactions

Form 1099-DIV, Dividends and Distributions

Form 1099-G, Certain Government Payments

Form 1099-INT, Interest Income

Form 1099-K, Payment Card and Third-Party Network Transactions

Form 1099-MISC, Miscellaneous Information

Form 1099-NEC, Nonemployee Compensation

Form 1099-OID, Original Issue Discount

Form 1099-PATR, Taxable Distributions Received From Cooperatives

Form 1099-R, Distributions From Pensions, Annuities, Retirement or Profit-Sharing Plans,

IRAs, Insurance Contracts, etc

Form 5498, IRA Contribution Information

The following table provides the participating states in the CF/SF Program. Each state's filing requirements are subject to change by the state. It's the filer's responsibility to contact the participating state(s) to verify their criteria and special data entry requirements.

Alabama	Indiana	Nebraska
Arizona	Kansas	New Jersey
Arkansas	Louisiana	New Mexico
California	Maine	North Carolina
Colorado	Maryland	North Dakota
Connecticut	Massachusetts	Ohio
Delaware	Michigan	Oklahoma
District of Columbia	Minnesota	Pennsylvania
Georgia	Mississippi	Rhode Island
Hawaii	Missouri	South Carolina
Idaho	Montana	Wisconsin

10. Other Helpful Information

10.1 Due Dates

Form	IRS Electronic Filing	Recipient/Participant Copy
1097-BTC	March 31	On or before the 15th day of the 2nd calendar month after the close of the calendar quarter (on or before May 15, August 15, November 15, and February 15 of the following year).
1098	March 31	January 31
1099	March 31	January 31 February 15 for Forms 1099-B and 1099-S. This also applies to statements furnished as part of a consolidated reporting statement.
1099-MISC	March 31	January 31 February 15 for amounts reported in boxes 8 or 10.
1099-NEC	January 31	January 31
3921	March 31	January 31
3922	March 31	January 31
5498	May 31	January 31 – for FMV/RMD May 31 – for contributions
5498-SA	May 31	May 31
5498-ESA	May 31	April 30
W-2G	March 31	January 31

Note: If any due date falls on a Saturday, Sunday, or legal holiday, the return or statement is considered timely if filed or furnished on the next business day. Leap years do not impact the due date. See Announcement 91-179, 1991-49 I.R.B. 78, for more information.

10.2 Help with IRIS Transmissions

Contact the Help Desk Monday through Friday 7:30 a.m. – 7:00 p.m. ET. Listen to all options before making your selection.

866-937-4130 (toll-free)

470-769-5100 (international; not toll-free)

TTY\TDD: The IRS welcomes calls via your choice of relay. Deaf or hard of hearing taxpayers using a relay service may call any of our toll-free numbers

10.3 Verifying Issuer and Recipient Identity and TINS

It is important that the Issuer and Recipient name, name control and TIN match the IRS database. Incorrect TINs and associating the wrong name with a TIN are some of the most common causes of information return errors.

For guidance on names and name controls:

General Instructions for Certain Information Returns (Forms 1096,1097, 1098, 1099, 3921, 3922, 5498, and W-2G)

Publication 1220, Specifications for Electronic Filing of Forms 1097, 1098, 1099, 3921, 3922, 5498, and W-2G

10.4 Additional Resources

Webpage References	Description
www.irs.gov/inforeturn	Learn about the differences between IRIS and other filing systems such as the Filing Information Returns Electronically (FIRE) system
www.irs.gov/iris	Access the Taxpayer Portal, subscribe to QuickAlerts and locate Help Desk contacts
www.irs.gov/irisats	Find ATS scenarios, known issues and solutions
www.irs.gov/irisschema	Find information about IRIS schemas and business rules
www.irs.gov/iristcc	Apply for a Transmitter Control Code (TCC) to e-file with IRIS
www.irs.gov/iriswgm	View FAQs and/or join the monthly working group meetings for software developers, transmitters and state agencies interested in IRIS A2A
www.irs.gov/iris	E-File Forms with IRIS

11. Acronym List

Acronym	Description
A2A	Application to Application
Ack	Acknowledgement
alg	algorithm
API	Application Program Interface
ATS	Assurance Testing System
aud	audience
вом	Byte Order Mark
CF/SF	Combined Federal/State Filing
ехр	expiration time
FIRE	Filing Information Returns Electronically
iat	issued at time
ID	Identification
IR	Information Returns
IRIS	Information Returns Intake System

Acronym	Description
IRS	Internal Revenue Service
iss	issuer
jti	JWT ID
JWK	JSON Web Key
JWKs	JSON Web Key Set
JWT	JSON Web Token
kid	Key identifier
MeF	Modernized e-File
OUSID	Original Unique Submission Identifier
Р	Production
PY	Processing Year
RID	Record Identifier
RO	Responsible Official
SID	Submission Identifier
SOR	Secure Object Repository
sub	subject
Т	Test
TCC	Transmitter Control Code
TD	Treasury Decision
TFA	Taxpayer First Act
TIN	Tax Identification Number
TY	Tax Year
URID	Unique Record Identifier
UTF-8	Unicode Transformation Format-8
UTID	Unique Transmission Identifier
UUID	Universally Unique Identifier
XML	Extensible Markup Language

