

# Banner General Release Guide

*Release 8.2.1  
October 2009*



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# Introduction

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Banner® General 8.2.1 supports enhancements in Banner Finance patch p1-72jw9z\_fin80300 and Banner Human Resources patch p1-72hngx\_pay80203. This release guide describes the enhancements in Banner General as well as the enhancements in Banner Finance and Banner Human Resources. The availability of enhancements described in this document depends on which products are installed at your institution.



# 1

# International ACH Transactions - Functional



IAT (International ACH Transaction) is a new format required after September 18, 2009 for processing certain direct deposit transactions through the Automated Clearing House (ACH) in the U.S. The Banner® IAT enhancement supports the processing of ACH payments to recipients who have an initial banking destination in the U.S. and a secondary destination outside the U.S. This enhancement is intended for U.S. institutions that use ACH processing in Banner Human Resources or Banner Finance.

## Background

New regulations from the Office of Foreign Assets Control (OFAC) affect certain IATs. Under the new rules, an ACH payment directed to a domestic bank account might be classified as an outgoing international payment if the recipient arranged to automatically transfer the direct deposit to a foreign bank account. Such a payment is treated as an international transaction even if the funds are transferred outside the U.S. without the knowledge of the originator of the payment. The new regulations require originators to use the new IAT format to supply additional information for screening the ACH transaction.

You should familiarize yourself with the new IAT regulations and take appropriate measures to meet your obligation for ACH payments. You should consider legal guidance to comply with all federal laws regarding domestic ACH payment activity, including payments that may be forwarded internationally without your knowledge.

Banner continues to support two non-IAT formats for ACH transactions:

- The PPD format is used for Accounts Payable person vendors and Payroll.
- The CTX format is used for Accounts Payable corporate vendors.

Payments with PPD and CTX formats continue to function unchanged after the IAT payment format is added. The upgrade is not required to continue ACH payments with PPD and CTX formats after September 18, 2009.

## Prerequisites

If Banner 8x is installed at your institution, Banner General 8.2.1 is required for processing IATs directed to U.S. domestic bank accounts in U.S. dollars. Depending on

the Banner products installed at your institution, the following upgrades are also required for IAT processing:

- Banner Finance patch p1-72jw9z\_fin80300 is required for processing Accounts Payable IATs. (Additional enhancements for IAT invoice processing are scheduled for Banner Finance 8.4.)
- Banner Human Resources patch p1-72hngx\_pay80203 is required for processing Payroll IATs. A second Banner HR patch, p1-6btvn7\_pay80202, includes a fix for RPE# 1-X4FTP. Both patches must be applied for Banner Human Resources IAT updates.

Upgrades for your installed products should be installed at the same time.

## Tasks

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This section describes the tasks for setting up and using Banner to process IATs.

### Set up system data

Certain data must be set up in your Banner data base before you start processing IATs. Use the following steps to set up the appropriate data:

- [Step 1, “Create ACH transaction types”](#)
- [Step 2, “Set up address defaults”](#)

#### Step 1 Create ACH transaction types

An ACH transaction type is required when you set up bank accounts on the Direct Deposit Recipient Form (GXADIRD) for use with Accounts Payable IATs. ACH transaction types are defined by NACHA. Use the following steps to create the ACH transaction types in your Banner database.

#### Note

If Banner Finance is not installed at your institution, you can skip this step.

1. Access the Automated Clearing House Transaction Type Validation Form (GTVACHT).
2. Enter a record for each ACH transaction type used at your institution:
  - 2.1. Enter the type code in the **Transaction Type Code** field. Refer to “Transaction Type Code” on page [17](#) for a list of valid ACH transaction type codes.
  - 2.2. Enter a free-form description (30-character maximum) in the **Description** field.

- 2.3. (Optional) If the type code is active, make sure that the **Status** check box is selected.

3. Save.

## Step 2 Set up address defaults

An IAT requires the address of the final recipient. The address is retrieved in one of the following ways:

- You can define an address type when you set up a recipient's direct deposits on the Direct Deposit Recipient Form (GXADIRD). For Payroll direct deposits, you only need to define the address type. For Accounts Payable direct deposits, you need to define the address type and the address sequence number. When an IAT is processed, this information is used to retrieve a specific address for the recipient.
- You can define default address type hierarchies for Payroll IATs and Accounts Payable IATs on the Crosswalk Validation Form (GTVSDAX). These defaults are used to retrieve a recipient's address if an address is not defined on GXADIRD. Banner General is delivering new GTVSDAX records for the default IAT address types.

If you prefer to use GXADIRD to define the address type for *each* recipient, you do not need to define default address types on GTVSDAX. You can skip this step.

If you prefer to use default address types, you must update the new GTVSDAX records with the address type codes that your institution plans to use for each type of IAT. Even if you set up defaults, you can still override the default for an individual recipient by entering an address type on GXADIRD.

### Warning

IATs require the recipient address. For Payroll IATs and Prenotes for Accounts Payable IATs, the GXADIRD address type and/or the GTVSDAX default address type must be defined. If neither is defined, the direct deposit process does not run properly. The address information must be correct before the direct deposit file can be created. ■

Use the following steps to set up address type defaults on GTVSDAX.

1. Access the Crosswalk Validation Form (GTVSDAX).
2. If Banner Finance is installed, update the default Accounts Payable IAT address type as follows.

### Note

Until Banner Finance 8.4 is delivered, the Accounts Payable IAT address type is used for all Accounts Payable invoices, including Accounts Receivable refunds. ■

- 2.1. Query for internal code *APIATADDR*.
  - 2.2. Replace *UPDATE\_ME* in the **External Code** field with the default address type code for Accounts Payable IATs.
  - 2.3. (Optional) If you want to define a hierarchy of default address types for Accounts Payable, insert additional *APIATADDR* records. Use the **Sequence** field to indicate the order in which address types should be reviewed to retrieve a specific address.
  - 2.4. Save.
3. If Banner Human Resources is installed, update the default Payroll IAT address type as follows:
    - 3.1. Query for internal code *PAYIATADDR*.
    - 3.2. Replace *UPDATE\_ME* in the **External Code** field with the default address type code for Payroll IATs.
    - 3.3. (Optional) If you want to define a hierarchy of default address types for Payroll, insert additional *PAYIATADDR* records. Use the **Sequence** field to indicate the order in which address types should be reviewed to retrieve a specific address.
    - 3.4. Save.

## Set up recipient addresses

An IAT requires the address of the final recipient. You should familiarize yourself with the new IAT regulations and take appropriate measures to meet your obligation for ACH payments. Use the following steps to enter recipient addresses in the Banner database.

1. Verify that one or more address types for tracking IAT recipient addresses are defined on the Address Type Code Validation Form (STVATYP).
2. Use the following forms to enter IAT recipient addresses. Be sure to use an address type established in step 1.
  - Vendor Maintenance Form (FTMVEND) for Accounts Payable IATs
  - Identification Form (PPAIDEN) for Payroll IATs

## Set up ACH bank accounts for direct deposits

IATs directed to U.S. ACH bank accounts require specific payment information. This information is defined when you set up direct deposit bank accounts for recipients. The

setups have minor differences depending on whether the bank account is used for Accounts Payable direct deposits only, Payroll direct deposits only, or both Accounts Payable and Payroll direct deposits.

## Bank accounts for Accounts Payable

Use the following steps to set up bank accounts for processing Accounts Payable IATs. These banks accounts can be used for Accounts Payable direct deposits only.

### Prerequisites

- Banner Finance must be installed.
- You must have the appropriate security access within Banner Finance.

### Steps

1. Access the Direct Deposit Recipient Form (GXADIRD).
2. Enter the identification number in the **ID** field.  
This is the recipient that receives payments via direct deposit.
3. Go to the next block.
4. Select the routing number of the recipient's bank from the **Bank Routing** drop-down list.
5. Select the **Accounts Payable** check box.
6. Enter the recipient's bank account in the **Account Number** field.  
This is the bank account that receives disbursements via direct deposit.
7. Select the **Checking** or **Savings** radio button.
8. Select the appropriate status from the **Direct Deposit Status** drop-down list.
9. Select the **IAT** check box.
10. Select a country code from the **ISO Country Code** drop-down list.  
This is the destination country for IATs sent to this bank account. The country code must be two alphabetic characters.
11. Select a transaction type from the **ACH Transaction Type** drop-down list.
12. (Optional) If you want to override the default address type defined on the Crosswalk Validation Form (GTVSDAX), enter the following fields:

<b>IAT Address Type Override</b>	Address type code from SOADDRQ
<b>IAT Address Sequence</b>	Sequence number for the specific address

The address type and sequence number entered on GXADIRD are used together to retrieve the final destination address of Accounts Payable IATs sent to this bank account. Both values are needed because an Accounts Payable vendor can have multiple addresses with the same address type.

13. Save.

## Bank accounts for Payroll

Use the following steps to set up bank accounts for processing Payroll IATs. These banks accounts can be used for Payroll direct deposits only.

### Prerequisites

- Banner Human Resources must be installed.
- You must have the appropriate security access within Banner Human Resources.

### Steps

1. Access the Direct Deposit Recipient Form (GXADIRD).
2. Enter the identification number in the **ID** field.  
This is the recipient (employee) that receives payments via direct deposit.
3. Go to the next block.
4. Select the routing number of the recipient's bank from the **Bank Routing** drop-down list.
5. Select the **Payroll** check box.
6. Enter the recipient's bank account in the **Account Number** field.  
This is the bank account that receives disbursements via direct deposit.
7. Select the **Checking** or **Savings** radio button.
8. Select the appropriate status from the **Direct Deposit Status** drop-down list.
9. Enter the processing priority in the **Priority** field.  
This is the sequence in which Payroll processing and disbursements occur.

10. Enter *one* of the following. (The default is 100 percent.)

<b>Amount</b>	Fixed-dollar amount to be deposited
<b>Percent</b>	Percentage to be deposited

11. Select the **IAT** check box.

12. Select a country code from the **ISO Country Code** drop-down list.

This is the destination country for IATs sent to this bank account. The country code must be two alphabetic characters.

13. (Optional) If you want to override the default address type defined on the Crosswalk Validation Form (GTVSDAX), select an address type code from the **IAT Address Type Override** drop-down list.

The address type is used to retrieve the final destination address of IATs sent to this bank account. The current, active address of this address type is retrieved.

14. Save.

## Bank accounts for Accounts Payable and Payroll

Use the following steps to set up bank accounts that can be used for processing both Accounts Payable and Payroll IATs.

### Prerequisites

- Banner Finance and Banner Human Resources must be installed.
- You must have the appropriate security access within Banner Finance and Banner Human Resources.

### Steps

1. Access the Direct Deposit Recipient Form (GXADIRD).
2. Enter the identification number in the **ID** field.  
  
This is the recipient that receives payments via direct deposit.
3. Go to the next block.
4. Select the routing number of the recipient's bank from the **Bank Routing** drop-down list.
5. Select the **Accounts Payable** and **Payroll** check boxes.

6. Enter the recipient's bank account in the **Account Number** field.  
This is the bank account that receives disbursements via direct deposit.
7. Select the **Checking** or **Savings** radio button.
8. Select the appropriate status from the **Direct Deposit Status** drop-down list.
9. Enter the processing priority in the **Priority** field.  
This is the sequence in which Payroll processing and disbursements occur.
10. Enter *one* of the following. (The default is 100 percent.)

<b>Amount</b>	Fixed-dollar amount to be deposited for Payroll transactions
<b>Percent</b>	Percentage to be deposited for Payroll transactions

This field applies to Payroll processing only. Accounts Payable disbursements assume 100 percent and cannot be split among multiple banks.

11. Select the **IAT** check box.
12. Select a country code from the **ISO Country Code** drop-down list.  
This is the destination country for IATs sent to this bank account. The country code must be two alphabetic characters.
13. Select a transaction type from the **ACH Transaction Type** drop-down list.  
This field applies to Accounts Payable processing only.
14. (Optional) If you want to override the default address type defined on the Crosswalk Validation Form (GTVSDAX), enter the following fields:

<b>IAT Address Type Override</b>	Address type code from SOADDRQ
<b>IAT Address Sequence</b>	Sequence number for the specific address

These values are used as follows:

- 14.1. Payroll IATs - The address type is used to retrieve the final destination address of Payroll IATs sent to this bank account. The current, active address of this address type is retrieved, regardless of the sequence number. The sequence number is *not* used with Payroll IATs.
- 14.2. Accounts Payable IATs - Both the address type and sequence number are used to retrieve the final destination address of Accounts Payable IATs sent to this

bank account. Both values are needed because an Accounts Payable vendor can have multiple addresses with the same address type.

 **Note**

Different addresses might be retrieved for Payroll IATs and Accounts Payable IATs if the sequence number entered on GXADIRD does not select the current, active address. ■

15. Save.

## Create deposit tape for Payroll IATs

IAT information is automatically written to the ACH deposit tape if an employee's bank account is flagged as *IAT* on the Direct Deposit Recipient Form (GXADIRD).

 **Note**

All IATs must be error-free before PHPDIRD creates the ACH deposit tape. Errors for both Active and Prenote activity must also be cleared before the deposit tape is created. Your payroll process must include sufficient time to correct any IAT errors. ■

Use the following steps to process Payroll IATs.

1. Use the Direct Deposit Distribution Report (PHRDIRD) to review direct deposits.

 **Note**

IAT direct deposits are flagged on PHRDIRD. ■

2. Use the Create Deposit Tape Process (PHPDIRD) to create the ACH deposit tape.

3. Review the .log file for errors. (If there are errors, the .lis file is empty.)

4. Correct all errors.

5. Repeat steps 2 through 4 until all errors are corrected and the .lis file is created.

Refer to [“Create Direct Deposit Tape Process \(PHPDIRD\)” on page 21](#) for more details about the changes made to PHPDIRD.

## Create deposit tape for Accounts Payable IATs

IAT information is automatically written to the ACH deposit tape if a recipient's bank account is flagged as *IAT* on the Direct Deposit Recipient Form (GXADIRD).

 **Note**

All IATs must be error-free before FAPDIRD creates the ACH deposit tape. Errors for both Active and Prenote activity must also be cleared

before the deposit tape is created. Your accounts payable process must include sufficient time to correct any IAT errors. ■

Use the following steps to process Accounts Payable IATs.

1. Use the Invoice Selection Report (FARINVS) to review direct deposits.

 **Note**

IAT direct deposits are flagged on FARINVS. ■

2. Use the Direct Deposit File Creation Process (FAPDIRD) to create the ACH deposit tape.
3. Review the .log file for errors. (If there are errors, the .lis file is empty.)
4. Correct all errors.
5. Repeat steps 2 through 4 until all errors are corrected and the .lis file is created.

Refer to [“Direct Deposit File Creation Process \(FAPDIRD\)” on page 19](#) for more details about the changes made to FAPDIRD.

## New form

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The Automated Clearing House Transaction Type Validation Form (GTVACHT) is used to set up the ACH transaction types used at your institution. ACH transaction types are defined by NACHA.

ACH transaction type codes are required when bank accounts for Accounts Payable IATs are defined on the Direct Deposit Recipient Form (GXADIRD).

 **Warning**

You would not ordinarily define *SAL* and *PEN* on GTVACHT as transaction type codes. If you do, those codes become available for invoice processing. ■

Field	Description
Transaction Type Code	Code that defines an ACH transaction type. ACH transaction type codes are defined by NACHA for payments originating in the U.S.: <ul style="list-style-type: none"> <li><i>ANN</i> Annuity</li> <li><i>BUS</i> Business/commercial</li> <li><i>DEP</i> Deposit</li> <li><i>LOA</i> Loan</li> <li><i>MIS</i> Miscellaneous</li> <li><i>MOR</i> Mortgage</li> <li><i>PEN</i> Pension</li> <li><i>RLS</i> Rent/lease</li> <li><i>SAL</i> Salary/payroll</li> <li><i>TAX</i> Tax</li> </ul>
Description	Free-form description of the transaction type code. Maximum length is 30 characters.
Status	Status of the transaction type code: <ul style="list-style-type: none"> <li><i>selected</i> Active (default)</li> <li><i>cleared</i> Inactive</li> </ul>
Activity Date	Date when the record was created or last updated. Display-only.
User ID	User who created or updated the record. Display-only.

## Changed form

The Direct Deposit Recipient Form (GXADIRD) is used to store ACH direct deposit information for a payment recipient. New fields on GXADIRD store payment information that is required for IATs directed to U.S. bank accounts. Once the IAT information is entered, you can toggle the **IAT** check box to enable or disable the IAT format for ACH direct deposits. The following new fields support IAT processing:

Field	Description
IAT	<p>Check box that determines whether ACH direct deposits to this bank account require the IAT format. Turns the IAT format on or off.</p> <p><i>selected</i>      ACH direct deposits use the IAT format. The <b>ISO Country Code</b> field is required. If the <b>Accounts Payable</b> check box is selected, the <b>ACH Transaction Type</b> field is also required.</p> <p><i>cleared</i>      ACH direct deposits do not use the IAT format. Information can be entered in the supporting IAT fields, but the information is not sent to the bank account.</p>
ISO Country Code	<p>Country code of the destination country for IATs sent to this bank account. Used to sort records on the deposit tape. Codes are defined by the International Organization for Standardization (ISO) and must be two alphabetic characters.</p> <p>This code is required if the <b>IAT</b> check box is selected.</p> <p>LIST - EDI/ISO Standard Code Validation (GTVSCOD). Only the two-character country codes are valid for IATs.</p>
ACH Transaction Type	<p>Default ACH transaction type used with Accounts Payable reimbursements to this bank account. Must be three characters.</p> <p>This field is required if both the <b>Accounts Payable</b> and <b>IAT</b> check boxes are selected.</p> <p>If a user has access to both Accounts Payable and Payroll and enters an ACH transaction type for a bank account that is flagged for Payroll transactions only, the following warning is displayed: <i>You have entered an ACH Transaction Type which is used for invoice payments only, not with bank accounts designated only for payroll.</i></p> <p>LIST - Transaction Type Validation (GTVACHT)</p>
IAT Address Type Override	<p>Address type that overrides the default address type defined on the Crosswalk Validation Form (GTVSDAX). Used to retrieve the final destination address of IATs sent to this bank account.</p> <p>List - Address Summary Form (SOADDRQ)</p>

Field	Description
IAT Address Sequence	<p>Sequence number used with the IAT address type override code for Accounts Payable IATs.</p> <p>For Accounts Payable reimbursements, a vendor ID can have multiple addresses with the same address type. This sequence number is used with the address type to retrieve the specific destination address of IATs sent to this bank account.</p> <p>This field is required if the <b>Accounts Payable</b> check box is selected and the <b>IAT Address Type Override</b> is entered.</p> <p>If a user has access to both Accounts Payable and Payroll and enters an IAT address sequence number for a bank account that is flagged for Payroll transactions only, the following warning is displayed: <i>You have entered an IAT Address Sequence which is used for invoice payments only, not with bank accounts designated only for payroll processing.</i></p>

## Changed menu

The Banking and Currency (\*GENCURRE) menu was updated to include the new GTVACHT form.

## Changed reports and processes

This section describes the report and process changes that support IAT processing.

### Direct Deposit File Creation Process (FAPDIRD)

FAPDIRD was updated to process Accounts Payable IATs. If a recipient's direct deposit bank account is flagged as IAT on the Direct Deposit Recipient Form (GXADIRD), FAPDIRD creates an IAT entry rather than a PPD or a CTX entry.

#### Note

The ACH recipient is currently selected as the check vendor for an invoice whenever a check vendor exists. This remains the same for IAT processing.

For a payment to a corporate vendor, FAPDIRD also creates a CTX remittance entry. The IAT entry includes the total payment amount. The CTX entry corresponding to the IAT includes a zero payment amount and lists remittance information for the individual

invoices being paid. This functionality helps you meet IAT regulatory requirements and also provides current CTX remittance details.

FAPDIRD processes person vendors first, followed by corporate vendors.

- For person vendors, FAPDIRD generates a separate IAT batch for each ISO country code being processed, followed by a PPD batch.
- For corporate vendors, FAPDIRD generates a separate IAT batch for each ISO country code being processed, followed by a CTX batch, followed by a batch of CTX entries related to the IATs.

FAPDIRD edits IATs to ensure that all mandatory fields are complete before transactions are written to the direct deposit tape file. Error messages are written to the .log file and must be corrected before the direct deposit transactions are written to the .lis file. Refer to [Section 3, "Troubleshooting"](#) for a description of the error messages.

 **Note**

All IATs must be error-free before FAPDIRD creates the ACH deposit tape. The .lis file is empty if there are errors. ■

IAT entries contain the following information:

<b>Information</b>	<b>Source</b>
Country code	ISO country code defined on GXADIRD for the bank account associated with the recipient's address.
Address	Recipient's address, which is determined as follows.  First preference uses the address type and address sequence on GXADIRD to retrieve the recipient's address. An error occurs if the retrieved address is inactive or incomplete.  If the address type and address sequence fields on GXADIRD are blank, then the APIATADDR address hierarchy on GTVSDAX is used to retrieve the recipient's address. The first active address for the selected address type is retrieved. An error occurs if the addresses are inactive or incomplete.  If the GXADIRD fields are blank and a GTVSDAX default does not exist, the check vendor address is used. If there is no check vendor address, the vendor address is used. No error occurs if the check vendor address or vendor address is inactive.

Information	Source
ACH transaction type	ACH transaction type for the largest invoice in the direct deposit remittance.  <b>Note:</b> Until Banner Finance 8.4 is delivered and installed, you cannot change the ACH transaction type for individual invoices.

## Invoice Selection Report (FARINVS)

FARINVS is used to preview Accounts Payable direct deposits. The following changes support IAT processing:

- A new report column flags IAT direct deposits.
- A new total shows the number of IAT direct deposit vendors.

## Create Direct Deposit Tape Process (PHPDIRD)

PHPDIRD was updated to process Payroll IATs. If an employee's direct deposit bank account is flagged as IAT on the Direct Deposit Recipient Form (GXADIRD), PHPDIRD creates an IAT entry rather than a PPD entry. PHPDIRD generates a separate IAT batch for each ISO country code being processed, followed by a PPD batch.

PHPDIRD edits IATs to ensure that all mandatory fields are complete before transactions are written to the direct deposit tape file. Error messages are written to the .log file and must be corrected before the direct deposit transactions are written to the .lis file. Refer to [Section 3, "Troubleshooting"](#) for a description of the error messages.

### Note

All IATs must be error-free before PHPDIRD creates the ACH deposit tape. The .lis file is empty if there are errors. ■

IAT entries contain the following information:

Information	Source
Country code	ISO country code defined on GXADIRD for the bank account associated with the employee's address.

Information	Source				
Address	<p>Employee's address, which is determined as follows.</p> <p>First preference uses the address type defined on GXADIRD to retrieve the employee's address.</p> <p>If the GXADIRD address type is blank, the PAYIATADDR address hierarchy on GTVSDAX is used to determine the address type. The current active address of the selected address type is retrieved.</p> <p>An error occurs if the employee does not have the address type that is defined on GXADIRD or GTVSDAX. An error occurs if the retrieved address is inactive or incomplete. An error occurs if the GTVSDAX address hierarchy is not defined.</p>				
ACH transaction type	<p>One of the following transaction types:</p> <table style="margin-left: 20px;"> <tr> <td style="vertical-align: top;"><i>PEN</i></td> <td>This code indicates that some or all of the earnings in the deposit are a pension payment. This occurs if the pay event contains an earnings code where the <b>Pensionable Hours</b> flag is selected on the Earnings Code Rules Form (PTREARN).</td> </tr> <tr> <td style="vertical-align: top;"><i>SAL</i></td> <td>This code is used for all other pay events to indicate a salary payment.</td> </tr> </table>	<i>PEN</i>	This code indicates that some or all of the earnings in the deposit are a pension payment. This occurs if the pay event contains an earnings code where the <b>Pensionable Hours</b> flag is selected on the Earnings Code Rules Form (PTREARN).	<i>SAL</i>	This code is used for all other pay events to indicate a salary payment.
<i>PEN</i>	This code indicates that some or all of the earnings in the deposit are a pension payment. This occurs if the pay event contains an earnings code where the <b>Pensionable Hours</b> flag is selected on the Earnings Code Rules Form (PTREARN).				
<i>SAL</i>	This code is used for all other pay events to indicate a salary payment.				

## Direct Deposit Distribution Report (PHRDIRD)

PHRDIRD is used to preview Payroll direct deposits. A new report column flags IAT direct deposits.

## Seed data

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This section describes the seed data that is delivered in this release.

## EDI/ISO Standard Code Validation Form (GTVSCOD)

ISO country codes are used to identify destination countries for IATs. IATs require two-character codes. This release includes seed data for the two-character country codes.

### Note

Banner does not require the existing three-character country codes in GTVSCOD. You can evaluate whether you need to keep the three-character codes. ■

## Crosswalk Validation Form (GTVSDAX)

This release includes the following new GTVSDAX records:

Internal Code	Description
APIATADDR	Default address type for Accounts Payable IATs
ARIATADDR	Default address type for Accounts Receivable refund IATs
PAYIATADDR	Default address type for Payroll IATs
ARACHTRAN	Default ACH transaction type for Accounts Receivable refunds

The use of these default records on GTVSDAX is optional:

- If you prefer to use GXADIRD to define the address type and ACH transaction type for each recipient, you can delete the default records on GTVSDAX.
- If you want to use the defaults at your institution, you must specify the default values you want to use. In the **External Code** field of each record, replace *UPDATE\_ME* with the specific default value that you want to use.

### Example

To use the mailing address as the default address type for Payroll IATs, access the PAYIATADDR record and set **External Code** to *MA*.

### Note

Accounts Receivable seed data (ARIATADDR and ARACHTRAN) are not currently being used. Banner Finance 8.4 enhancements to the Refund Interface (FURAPAY), Invoice/Credit Memo Form (FAAINVE), and Invoice/Credit Menu Query Form (FAIINVE) will use this seed data. ■



## 2

# International ACH Transactions - Technical



This section describes the technical enhancements that support the new IAT (International ACH Transaction) format used to process certain direct deposit transactions through the Automated Clearing House (ACH) in the U.S.

## New table

The new ACH Transaction Type Code Validation Table (GTVACHT) stores the transaction type codes used with Accounts Payable ACH transactions. GTVACHT contains the following fields:

Field	Size	Type
GTVACHT_CODE	8	VARCHAR2
GTVACHT_DESC	30	VARCHAR2
GTVACHT_STATUS_IND	1	VARCHAR2
GTVACHT_ACTIVITY_DATE	7	DATE
GTVACHT_USER_ID	30	VARCHAR2
GTVACHT_DATA_ORIGIN	30	VARCHAR2

## Changed table

The Recipient Direct Deposit Information Table (GXRDIRD) contains the following new fields:

Field	Size	Type
GXRDIRD_ACH_IAT_IND	1	VARCHAR2
GXRDIRD_SCOD_CODE_ISO	3	VARCHAR2
GXRDIRD_ACHT_CODE	8	VARCHAR2
GXRDIRD_ATYP_CODE_IAT	2	VARCHAR2
GXRDIRD_ADDR_SEQNO_IAT	2	NUMBER

## New API

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A new API (`gb_gtvacht`) provides the Common Business interface for the ACH Transaction Type Code Validation Table (GTVACHT).

Table	API Object Name	Associated Scripts	Task Performed
GTVACHT	<code>gb_gtvacht</code>	<code>gvkb_gtvacht0.sql</code> <code>gvkb_gtvacht1.sql</code>	Stores information about ACH transaction type codes.

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## New seed data

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The following scripts deliver new seed data:

Script	Description
<code>gtvsdaxi_070601.sql</code>	Adds the following system defaults to GTVSDAX: <ul style="list-style-type: none"><li>• Payroll IAT recipient address type</li><li>• Accounts Payable IAT recipient address type</li><li>• Accounts Receivable IAT recipient address type (used for refunds)</li><li>• Accounts Receivable ACH transaction type (used for refunds)</li></ul>
<code>gtvscodi_070601.sql</code>	Adds two-character ISO country codes to GTVSCOD

# 3

# Troubleshooting



This section describes the steps for correcting error conditions that can occur when you create an ACH deposit tape that includes IATs.

## Accounts Payable errors

The Direct Deposit File Creation Process (FAPDIRD) can create the following error messages related to Accounts Payable IATs:

Error Message	Cause	Solution
Undefined ACH Transaction Type in GXADIRD for Bank Routing <number>, Account <number>.	The ACH transaction type on the Direct Deposit Recipient Form (GXADIRD) is either missing or no longer valid.	Access GXADIRD for the check vendor or vendor. Select the bank account indicated in the message. Ensure that a valid ACH transaction type is entered.
Missing institution street address. Check Installation Controls form GUAINST.	The institutional address on the Installation Controls Form (GUAINST) is incomplete.	Access GUAINST. Ensure that at least one street address line is entered.
Missing institution Nation and/or Zip Code. Check Installation Controls form GUAINST.	The institutional address on GUAINST is incomplete.	Access GUAINST. Ensure that the nation and/or ZIP code is entered.
Missing ACH Information for the bank <xx>.	The ACH origination information on the Bank Code Rules Form (GXRBank) is incomplete for the bank code listed.	Access GXRBank. Navigate to the Immediate Destination Information block. Complete the <b>Origin Name</b> and <b>Originating Bank Routing Number</b> fields.

Error Message	Cause	Solution
<p>Address &lt;xx-xx&gt; is missing street address. Check Vendor Maintenance form FTMVEND.</p>	<p>There are two possible causes for this error.</p> <p>On GXADIRD, the recipient has an IAT address override. An incomplete address was selected for the recipient, based on the GXADIRD address override.</p> <p>There is no IAT address override on GXADIRD, and the invoiced check vendor address or vendor address is missing street information.</p>	<p>Access the Vendor Maintenance Form (FTMVEND) for the check vendor or vendor. Navigate to the Address window. Select the address type and sequence indicated in the message. Enter the address line information.</p>
<p>Address &lt;xx-xx&gt; is missing Nation and/or Zip Code. Check Vendor Maintenance form FTMVEND.</p>	<p>There are two possible causes for this error.</p> <p>On GXADIRD, the recipient has an IAT address override. Both the Nation and ZIP code are missing in the address selected for the recipient, based on the GXADIRD address override.</p> <p>There is no IAT address override on GXADIRD, and the invoiced check vendor address or vendor address is missing both Nation and ZIP code.</p>	<p>Access FTMVEND for the check vendor or vendor. Navigate to the Address window. Select the address type and sequence indicated in the message. Enter the nation and/or ZIP code.</p>

Error Message	Cause	Solution
Address Type <xx> defined in GTVSDAX (Code=APIATADDR) does not exist for the vendor.	<p>There are two possible causes for this error.</p> <p>On GTVSDAX, a default IAT address hierarchy (APIATADDR) is defined. The recipient does not have an active address of the type that was selected, based on the hierarchy.</p> <p>The institution has not properly defined a default IAT address hierarchy on GTVSDAX (APIATADDR). The address type code is still <i>UPDATE_ME</i>.</p>	<p>There are two possible solutions:</p> <p>Access FTMVEND for the check vendor or vendor. Navigate to the Address window. Select the address type indicated in the message. Ensure that the recipient has an active address of this type.</p> <p>Access GTVSDAX. Complete the address hierarchy by updating the external code to a valid value. The delivered <i>UPDATE_ME</i> value is not a valid address type.</p>
Address <xx-xx> does not exist. Check GXADIRD for Bank Routing <number>, Account <number>.	<p>On GXADIRD, the recipient has an IAT address override. The recipient has an inactive or missing address, based on the address override.</p>	<p>Access FTMVEND for the check vendor or vendor. Navigate to the Address window. Select the address type and sequence indicated in the message. Ensure that the recipient has an active address for the address override entered on GXADIRD.</p>
Missing Address in GXADIRD for Prenote with Bank Routing <number>, Account <number>.	<p>The Prenote does not have an address associated with the recipient's bank account. This occurs when both of the following conditions are true:</p> <ul style="list-style-type: none"> <li>• The recipient does not have an IAT address override on GXADIRD.</li> <li>• A default IAT address hierarchy (APIATADDR) is not defined on GTVSDAX.</li> </ul>	<p>There are two possible solutions:</p> <p>Access GXADIRD for the vendor. Select the bank account indicated in the message. Enter a valid IAT address override.</p> <p>Consider if a default IAT address hierarchy (APIATADDR) is appropriate. (The same hierarchy applies to both Prenote and active accounts.)</p>

# Payroll errors

The Create Direct Deposit Tape Process (PHPDIRD) can create the following error messages related to Payroll IATs:

Error Message	Cause	Solution
Missing Institution Address. Check Address on Installation Controls form.	The institutional address on the Installation Controls Form (GUAINST) is incomplete.	Access GUAINST. Ensure that at least one street address line is entered.
Missing Institution Country and/or Zip Code. Check Address on Installation Controls form.	The institutional address on GUAINST is incomplete.	Access GUAINST. Ensure that the country and ZIP code are entered.
Missing ACH Information for the bank <xx>.	The ACH origination information on the Bank Code Rules Form (GXR BANK) is incomplete for the bank code listed.	Access GXR BANK. Navigate to the Immediate Destination Information block. Complete the <b>Origin Name</b> and <b>Originating Bank Routing Number</b> fields.
Address Type <xx> is missing Street Address. Check Address on Identification Form.	<p>There are two possible causes for this error.</p> <p>On the Direct Deposit Recipient Form (GXADIRD), the employee has an IAT address type override. An incomplete address was selected for the employee, based on the GXADIRD address type override.</p> <p>On the Crosswalk Validation Form (GTVSDAX), a default IAT address hierarchy (PAYIAADDR) is defined. An incomplete address was selected for the employee, based on the hierarchy.</p>	Access the Identification Form (PPAIDEN) for the employee. Navigate to the Address window. Select the address type indicated in the message. Complete the address line information.

Error Message	Cause	Solution
Address Type <xx> is missing Country and/or Zip Code. Check Address on Identification form.	<p>There are two possible causes for this error.</p> <p>On GXADIRD, the employee has an IAT address type override. An incomplete address was selected for the employee, based on the GXADIRD address type override.</p> <p>On GTVSDAX, a default IAT address hierarchy (PAYIATADDR) is defined. An incomplete address was selected for the employee, based on the hierarchy.</p>	Access PPAIDEN for the employee. Navigate to the Address window. Select the address type indicated in the message. Complete the country and/or ZIP or postal code information.

Error Message	Cause	Solution
<p>Address Type &lt;xx&gt; does not exist for the employee. Check Address on Identification form.</p>	<p>There are five possible causes for this error.</p> <p>On GXADIRD, the employee has an IAT address type override. The employee has an inactive address, based on the address type override.</p> <p>On GXADIRD, the employee has an IAT address type override. The employee does not have an address of this type.</p> <p>On GTVSDAX, a default IAT address hierarchy (PAYIATADDR) is defined. An inactive address was selected for the employee, based on the hierarchy.</p> <p>On GTVSDAX, a default IAT address hierarchy (PAYIATADDR) is defined. The employee does not have an address of the type, based on the hierarchy.</p> <p>The institution has not properly defined a default IAT address hierarchy on GTVSDAX (PAYIATADDR). The address type code is still <i>UPDATE_ME</i>.</p>	<p>There are three possible solutions.</p> <p>Access PPAIDEN for the employee. Navigate to the Address window. Select the address type indicated in the message. Complete the address information.</p> <p>Access PPAIDEN. Ensure that the employee has an address of this type that is active.</p> <p>Access GTVSDAX. Complete the address hierarchy by updating the external code to a valid value. The delivered <i>UPDATE_ME</i> value is not a valid address type.</p>