



**FedGlobal® ACH Payments
Origination Manual**
May 22, 2024

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Introduction

FedGlobal ACH Payments is an enhanced suite of international ACH services established to complement FedACH® Services. This portfolio of international ACH services significantly increases the number of countries reachable and payment options available from FedACH Services. Broader country reach, as well as payment option flexibility, allows the Federal Reserve Banks to offer an efficient means of cross-border ACH payments to all originating depository financial institutions (ODFIs).

Purpose

This manual is intended to assist financial institutions in establishing an international ACH origination program using the Federal Reserve Banks' FedGlobal ACH Payments. The manual provides an overview of the service, its processing and its implementation requirements, as well as country- and/or region-specific requirements for originating international ACH payments. It is a living document that will be revised as service enhancements are identified and implemented.

Your relationship manager can assist you in implementing a successful international ACH origination program. To determine the appropriate contact, please visit [the Relationship Manager Contacts page](#).

This *FedGlobal ACH Payments Origination Manual* should be used in conjunction with the Federal Reserve Banks' [Operating Circular \(OC\) 4: Automated Clearing House Items](#) and [Nacha Operating Rules and Guidelines](#) (the *Nacha Operating Rules and Guidelines* provide definitions for terms used in this manual). As these rules may be updated or modified periodically, it is important to retain a current copy for reference.

The content of this manual does not in any way constitute legal or compliance advice. It is important that ODFIs understand the specific risk and requirements involved in originating payments to foreign countries. ODFIs should consult with risk management, compliance and legal staff before originating such payments.

Specifically, an ODFI that originates international ACH payments warrants under Article Two, Subsection 2.5.8.4 - Additional ODFI Warranties for Outbound International ACH Transactions (IAT) of the *Nacha Operating Rules and Guidelines* that it is in compliance with the laws and payment system rules of the receiving country.

Document History

- **May 22, 2024:** Updated RDFI bank number listings for Mexico in Appendix G.
- **May 7, 2024:** Updated RDFI bank number listings for Mexico in Appendix G.
- **April 4, 2024:** Updated receiving depository financial institution (RDFI) bank number listings for Mexico. Updated customer contact phone number and made general formatting and content updates.
- **September 27, 2023:** Updated RDFI bank number listings for Mexico.
- **June 21, 2023:** Updated RDFI bank number listings for Mexico and Panama. Removed references to FedGlobal ACH Canada and Europe services.
- **October 6, 2022:** Updated RDFI bank number listings for Panama in Appendix H.
- **September 28, 2022:** Updated RDFI bank number listings for Mexico in Appendix G.
- **July 1, 2022:** Updated RDFI bank number listings for Mexico in Appendix G. Removed FedGlobal ACH Formatting Aid references due to decommission on June 30, 2022.
- **April 4, 2024:** Updated RDFI bank number listings for Mexico in Appendix G. Updated customer contact phone number and made general formatting and content updates.
- **May 22, 2024:** Updated RDFI bank number listings for Mexico in Appendix G.

Overview

General Description

FedGlobal ACH Payments supports the Federal Reserve's mission to help ensure there is an efficient, effective and accessible retail payments system. It also offers a single processing stream to financial institutions for sending and receiving domestic and international ACH credit and debit items using domestic FedACH deadlines.

For payments originated in the U.S. and sent through FedGlobal ACH Payments, the Federal Reserve Bank of Atlanta, on behalf of all twelve Federal Reserve Banks, acting through the Federal Reserve Financial Services, serves as the U.S. gateway operator (GO) and works with the appropriate foreign gateway operator (FGO). It is important to remember that each country is governed by its own domestic clearing rules and practices. Some differences between U.S. and foreign payments systems are highlighted in this manual to assist you in planning and implementing your service offering.

Cross-border payments are formatted using the Nacha Standard Entry Class (SEC) code for International ACH Transaction (IAT) items. The "Company/Batch Header Record" contains information specific to cross-border payments, including data related to foreign exchange (FX), origination and destination country, and currency codes. Consequently, these entries can be included in the same file as domestic ACH transactions but must be batched separately. The IAT SEC code and fields in the "Company/Batch Header Record" allow cross-border payments to be readily identified. For efficiency purposes, ODFIs should limit their batches to fewer than 500 records. Detailed record layouts are provided in Appendix A and B of this manual.

Nacha Operating Rules and Guidelines allow for transactions to originate in three types of currency value exchange: fixed-to-variable (FV), variable-to-fixed (VF) or fixed-to-fixed (FF). FedGlobal ACH Payments accommodates fixed-to-variable (FV) and/or fixed-to-fixed (FF) for outbound payments destined to foreign countries depending on the agreement with the FGO. These FX options include:

- **FV: USD to foreign currency:** U.S. dollars (USDs) are converted to a variable amount of destination currency based on a competitive FX rate provided as part of the payment flow.
- **FF: USD to USD:** USDs are both sent and received to USD-denominated accounts. This applies to countries that allow USD accounts and are

permitted in FedGlobal ACH Payments.

- **FF: foreign currency to foreign currency:** This option, known as Fixed-to-Fixed Foreign Currency (F3X¹), enables the ODFI to manage its own FX to participating countries. Settlement is conducted outside of the ACH network through a foreign correspondent. This option requires a separate service enrollment form with FEDERAL RESERVE FINANCIAL SERVICES to participate.

FedGlobal ACH Payments also offers the ability to send funds between deposit accounts in the U.S. and destination countries.

ODFI Compliance Obligations

FEDERAL RESERVE FINANCIAL SERVICES' OC 4 applies to all FedACH transactions and contains provisions that apply specifically to all FedGlobal ACH Payments services. The *Nacha Operating Rules and Guidelines* apply to all FedGlobal ACH Payments countries to the extent that the *Nacha Operating Rules and Guidelines* do not conflict with OC 4. *Nacha Operating Rules and Guidelines* outline the obligations of GOs, including responsibilities and warranties.

A GO serves as the entry point to, or exit point from, the U.S. for payment transactions. A FGO is a gateway operator that acts as an entry point to, or exit point from, a foreign country. The *Nacha Operating Rules and Guidelines* allow for flexibility through the U.S. GO/FGO agreement to allocate processing responsibilities, assign warranties and liabilities, establish an accord for the handling of FX, define settlement procedures and determine the legal basis for their business relationship.

Additionally, U.S. ODFIs are responsible for complying with applicable U.S. law, as well as incorporating FedGlobal ACH Payment services into applicable compliance policies and procedures. It is recommended that U.S. ODFIs do the following:

1. Have a compliance officer and a compliance program that includes policies and procedures designed to ensure the U.S. ODFI's compliance with the Bank Secrecy Act and with U.S. laws, regulations and bank supervisory policies regarding anti-money laundering (AML), anti-terrorism financing, "know your customer," customer identification programs, data security and data privacy, Office of Foreign Assets Control (OFAC) requirements and

¹ F3X is patented by the Federal Reserve Bank of Atlanta: U.S. Patent No. 7,580,886.

mandatory consumer protections.

2. Adopt and adhere to policies and procedures that ensure all cross-border transactions are handled in compliance with the U.S. ODFI's compliance policies and procedures with due regard for the enhanced OFAC requirements for international ACH transactions.
3. Perform due diligence with respect to all persons, entities and associated data in every cross-border transaction to ensure compliance with OFAC regulations; directly involve the U.S. ODFI's compliance staff in resolving any issues regarding any cross-border item that appears to be a prohibited transaction under OFAC regulations.
4. Monitor all cross-border transactions for indications of suspicious activity, including but not limited to structuring such transactions to avoid recordkeeping or reporting requirements or the GO's limits on transaction amounts.
5. File Suspicious Activity Reports and/or Currency Transaction Reports as required by applicable laws or regulations.

Information on OFAC regulations can be found at the [OFAC website](#) and in the *Nacha Operating Rules and Guidelines*.

Either the GO or the FGO may refuse to handle IAT items originated by any participating U.S. ODFI that they believe poses a compliance risk, such as originating items that include parties on the OFAC list. The quality and accuracy of the information provided by the originator are key to both the ODFI's and RDFI's ability to successfully meet compliance obligations.

RDFI Compliance-Related Inquiries

Financial institutions that receive IAT items entering the U.S. through FedGlobal ACH Payments may occasionally require additional information about the payment originator. To determine if the IAT item entered the U.S. through FedGlobal ACH Payments, the RDFI can cross-reference the ODFI routing number in the E-Payments Routing Directory to verify if the originating GO is part of FedGlobal ACH Payments. By calling the contact number listed, the RDFI will reach FedACH and Check Services Customer Support. The RDFI should state that it is requesting assistance with a compliance-related issue. FedACH staff will coordinate these

inquiries with the originating GO and make reasonable efforts to facilitate initial communication between the financial institutions on both ends of the IAT item.

FedGlobal ACH Payments Compliance

While cross-border ACH is inherently riskier than ACH payments made between counterparties within the U.S., U.S. laws and regulations provide guidance to ODFIs on carrying out cross-border payments in a compliant manner. As an originator of IAT items outside the U.S. on behalf of U.S. ODFIs, FedGlobal ACH Payments seeks to support regulatory compliance by carrying out a series of compliance-related activities.

FEDERAL RESERVE FINANCIAL SERVICES maintains a compliance officer and compliance program to assist with ensuring that payments transacted over FedGlobal ACH Payments are compliant with U.S. laws and regulations. The objective of the compliance program is to detect, prevent and report attempts to abuse the Federal Reserve Banks' FedGlobal ACH Payments for money laundering.

FEDERAL RESERVE FINANCIAL SERVICESs compliance program includes:

- Transaction monitoring for AML and OFAC compliance at the aggregate level
- Transaction monitoring for limits on the payment value by originator, where applicable
- Establishing compliance obligations for payment processing in agreements with GOs and third-party service providers
- Due diligence reviews of service offerings that include evaluations of GOs and third-party service providers, as well as country risk assessments

Transaction monitoring for AML may include post-processing reviews of payments by ODFI, RDFI, originator, country of destination and origin, concentrations of payment activity and unusual patterns of activity. U.S. regulatory authorities are notified of potentially suspicious payment activity. OFAC monitoring is conducted on items entering the U.S. ACH network through FedGlobal ACH Payments as requested by OFAC; the RDFI and OFAC are notified of potentially suspicious items. The transaction monitoring is conducted on a post-transaction basis, as FedACH Services cannot separate or pend suspicious items on a flow-through basis.

As a GO, the Federal Reserve Bank of Atlanta includes in each FedGlobal ACH Payments agreement with processors and FGO requirements that processors and FGOs:

1. Have a compliance officer
2. Establish and follow compliance policies and procedures
3. Be Financial Action Task Force (FATF)-compliant
4. Follow applicable recordkeeping requirements, per local laws
5. Follow applicable reporting requirements on illegal or suspicious transactions/activities, per local laws

Due diligence activities also include a risk assessment of the foreign gateway partners and any third-party service providers involved in carrying out the service, and a country risk assessment of receiving countries or those that may originate payments into FedGlobal ACH Payments. The counter-party risk assessment evaluates operational risks, service-level risks and overall compliance risk. The country risk assessment evaluates risks presented by the country or countries reached. Identified risks have been documented, and mitigation procedures are in place. Example risk mitigation measures include transaction monitoring and stipulations in legal agreements.

The service offerings provided by FedGlobal ACH Payments have successfully met the criteria established by FEDERAL RESERVE FINANCIAL SERVICES's compliance program.

Dodd-Frank 1073 Compliance

In 2013, the Consumer Financial Protection Bureau (CFPB) implemented Section 1073 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank 1073). The rule, which amends Regulation E, focuses primarily on disclosure, error resolution and cancellation requirements for remittance transfer providers facilitating outbound cross-border, consumer-initiated electronic transfers of funds.

Dodd-Frank 1073 establishes a requirement to provide exact disclosures in most cases. However, estimated disclosures are allowed under certain circumstances.

Effective July 21, 2020, the CFPB amended Regulation E pertaining to certain protections for consumers sending outbound (from the U.S.) international money transfers or remittance transfers (known as the Remittance Rule). The amended Regulation E provisions on U.S. outbound cross-border transactions only pertain to consumer remittances and have no impact on non-consumer payments (i.e., business, corporate, government). FedGlobal ACH Payments can be used for these transactions. The amended provisions include:

- An increase in the safe harbor threshold from 100 to 500 transfers annually
- A new, permanent exception that permits insured institutions to estimate the exchange rate for a remittance transfer to a particular country if, among other criteria, the designated recipient will receive funds in the country's local currency and the insured institution made 1,000 or fewer remittance transfers to that country in the prior calendar year with the designated recipients receiving funds in the country's local currency
- A new, permanent exception that permits insured institutions to estimate covered third-party fees for a remittance transfer to a designated recipient's institution if, among other things, the insured institution made 500 or fewer remittance transfers to that designated recipient's institution in the prior calendar year

Regulation E amendments may have potential impacts for certain FedGlobal ACH Payments subscribers. The most prevalent of these pertain to responsibilities of institutions to provide exact FX disclosures.

Although FedGlobal ACH Payments does not support exact FX disclosure for consumer remittances requiring U.S. dollar-to-local currency conversion, institutions should consult with their legal, compliance, or supervisory authority to assess the impact of the amended provisions and when FedGlobal ACH Payments can be used. In consideration of guidelines in the final rule for the safe harbor threshold and number of remittances transferred in the prior year, the following table, *FedGlobal ACH Payments - FX Disclosure Matrix for Consumer Remittances*, can assist subscribers in assessing when FedGlobal ACH Payments can be used for consumer remittances.

FedGlobal ACH Payments – FX Disclosure Matrix for Consumer Remittances

Service	Payment type by destination currency	Exact FX disclosure	Estimated FX disclosure	FX disclosure N/A	Comments
Mexico	MXN	No	Yes	No	Exception due to FedGlobal ACH central bank partnership

Mexico F3X*	MXN	Yes	No	No	FX set by originating institution
Panama	USD	No	No	Yes	FX not applied for USD payments

*F3X is a messaging service that enables a financial institution to originate payments in foreign currency to receiver accounts in the same currency.

With FedGlobal ACH Payments, financial institutions are enabled with information about foreign fees, foreign taxes, the date of funds' availability and estimated foreign exchange rates. Additionally, the service bolsters error resolution by assisting with the tracing of transactions where an error has occurred. Customers should consult their legal and/or compliance department to determine if their institution can use estimates and how the information provided by FedGlobal ACH Payments can help satisfy disclosure obligations.

Risks

OC 4 and *Nacha Operating Rules and Guidelines* stipulate rights, obligations, and warranties with respect to the U.S. payment system. Differences in the U.S. and foreign country payments systems may pose operational risk to an ODFI. Credit risk also exists with respect to return items, including but not limited to :

- Return timeframes may be extended due to differences in country regulations, causing the originator to absorb extended temporal FX currency exposure and extended temporal credit risk of unsuccessful return chargeback. Originators should also note that a different FX rate can be applied to the originated forward item and any subsequent return item. This difference varies by destination currency and country.
- Financial institution accounts are denominated in a particular currency. It is the responsibility of the ODFI and originator to determine the currency that the receiver's account is denominated in and to properly format the IAT fields. Otherwise, the receiving depository financial institution may receive a cross-border ACH item denominated in the incorrect currency. The RDFI may then convert the item to the appropriate currency and post the item to the receiver's account instead of returning the item back to the FGO. This is generally the case if there is a standing agreement between the RDFI and its customer to provide the FX conversion. However, this not a requirement in some destination countries. This FX conversion is outside the scope of FedGlobal ACH Payments. If the RDFI does return the item, the FX rate used

does fall under FedGlobal ACH Payments. Ultimately, it is important for the ODFI to work with the originator to determine the appropriate destination currency related to the receiver's account.

Rules Differences

FEDERAL RESERVE FINANCIAL SERVICES and the appropriate FGO serve as conduits to their domestic payment systems to process and deliver international ACH payments. ACH items originated in the U.S. are governed by U.S. laws and rules (including *Nacha Operating Rules and Guidelines*) until they cross the border into another country. Once they arrive in the foreign country, that country's local laws and rules apply.

Potential rule differences include, but are not limited to, the following:

- Different return timeframes by country
- Ability to hold local (destination) currency and/or U.S. dollar currency accounts
- Varying regulatory requirements in foreign countries. The IAT format enables all participating U.S. financial institutions to provide the necessary and regulatory-compliant information in the appropriate fields to be delivered to receiving financial institutions in foreign countries. If the information provided in the IAT fields is inaccurate or non-specific, the FGO and/or the RDFI may find it necessary to return the item. Therefore, it is important for the ODFI to work with the originator to accurately format and provide quality information in the IAT records.

Prenotifications and Notifications of Change

Prenotifications (prenotes) are only supported to Panama. Notifications of Change (NOCs) are only supported to Panama. To verify account information for a new receiver, a forward IAT credit for \$2.00 may be sent. If the information for the receiver is incorrect, the receiving financial institution may return the item within the appropriate timeframe for the receiving country.

ODFI Recalls and Reversals

Reversals are not supported in FedGlobal ACH Payments. If an error is detected after a file has been submitted, the U.S. ODFI should contact the originator, which should work with the receiver to request a refund of the duplicated funds. In addition, the U.S. ODFI can contact FedACH staff, who can provide contact

information for the foreign RDFI. Please refer to the “Customer Support” section below for FedACH and Check Services Customer Support contact information.

The U.S. ODFI and/or originator are responsible for contacting the foreign RDFI or the beneficiary to request a refund of the item.

Holiday Processing

At times, foreign country banking holidays differ from U.S. banking holidays. ODFIs occasionally transmit items through FedGlobal ACH Payments for settlement on a foreign country banking holiday. When this occurs, FedGlobal ACH Payments will process the item(s), send it to the FGO and settle it against the ODFI's settlement account on the specified settlement date. The FGO will process, deliver and settle the items to the foreign RDFIs on the next banking day after the holiday. For payments that require a FX rate conversion, the FX rate applied will be for the foreign settlement date, which may differ from the U.S. settlement date. For a list of the foreign country's holidays, please refer to [this list of international bank holidays](#).

Supplementary holiday schedules for FedGlobal ACH Payments-participating countries may be found in their respective sections of the manual.

Customer Support: ODFI Item Trace

To initiate an item trace on a FedGlobal ACH Payments transaction, U.S. ODFIs should contact FedACH and Check Services Customer Support. FEDERAL RESERVE FINANCIAL SERVICES will work with the appropriate FGO to answer inquiries. FedACH and Check Services Customer Support generally provides a response within three business days. Transactions in amounts less than 20 dollars may not be traced beyond FedACH Services (the U.S. GO) for FedGlobal ACH Payments. It is important to note that U.S. ODFIs are responsible for any investigation fees, should they be assessed by foreign RDFIs or downstream payment participants.

FEDERAL RESERVE FINANCIAL SERVICES Support Center's toll-free phone number is 1-(833) FRS-SVCS ([833] 377-7827).

Implementation Requirements

Service Request Form

FedGlobal ACH Payments is available to ACH ODFIs upon request. Prior to participation, a financial institution will need to complete and return the service request form(s) to their relationship manager. The request form(s) for FedGlobal ACH Payments country destinations and the F3X service are available in “Part 6A” and “Part 6A Section B,” respectively, of the [FedACH Participation Agreement](#). For questions regarding the service request form(s), financial institutions should contact their relationship manager.

Pre-production Testing

To ensure that payments flow properly, an ODFI must complete testing with FedACH Services. To begin the testing process, financial institutions should complete the *Service Request Form* and submit it to their relationship manager. Once the completed form has been received, a FedACH testing coordinator will contact the financial institution to schedule testing.

The test involves the ODFI creating an ACH file that contains a mixture of valid and invalid forward items. FedACH testing is open anytime between Tuesday and Friday. The purpose of testing is to verify the ODFI’s ability to successfully originate payments for processing and delivery through the service using the IAT SEC code.

Following a prepared test script, the ODFI submits several valid and invalid one- and two-day items using the IAT SEC code. After FedACH Services processes the items, FedACH Services creates and sends the ODFI a file containing returns, which the ODFI can receive and process. Upon completion of a successful test, participants establish a date to begin sending payments to the destination country. Note that pre-production test files are not delivered to destination countries for further validation.

Know Your Customer Questionnaire

As a condition of using the FedGlobal ACH Payments service, participants must complete a *Know Your Customer (KYC) Questionnaire* prior to production. The *KYC Questionnaire* is forwarded to the institution for completion during the due diligence and setup process. The institution’s AML Compliance Officer or another appropriate official will need to respond to the *KYC Questionnaire* and include their contact information. The completed *KYC Questionnaire* must be signed by an officer listed on the institution’s Official Authorization List (OAL) that is on file with FEDERAL RESERVE FINANCIAL SERVICES. On a periodic basis and as directed, the *KYC Questionnaire* must be resubmitted to remain enrolled in the service.

FedGlobal ACH Payments Geographic Reach

Country	Inbound credits	Outbound credits	Outbound debits	FF – USD*	F3X*	FV*
Mexico	No	Yes	No	N/A	D+1	D+1
Panama	No	Yes	No	D+1	N/A	N/A

*Funds availability based on one-day item origination. Refer to each country/region's respective sections of this document for actual cut-off and delivery timeframes.

Mexico Requirements

Processing

Service Description

The Federal Reserve Bank of Atlanta and the Central Bank of Mexico, Banco de México (Banxico), act as the GOs and serve as conduits to their domestic payments systems to accomplish straight-through processing of payments. The Mexico service supports both forward ACH one-day and two-day credits originated in the U.S. and destined to any receiver's account. Both payment options to Mexico offer funds availability to the receiver on the U.S. settlement day.

Mexican Payments System Overview

Sistema de Pagos Electrónicos Interbancarios (SPEI®) is the real-time gross settlement system owned and operated by Banxico. Payments processed through SPEI are settled in Banxico accounts. The Banco de México Act of 1993 defines the responsibilities and powers of the central bank. Under this Act, Banxico is tasked with promoting the financial system's sound development and the proper functioning of the payments system, as well as being empowered to regulate financial operations and payment systems, including funds transfer systems operated by banks or other firms.

ACH items originated in the U.S. are governed by U.S. laws and rules (including the *Nacha Operating Rules and Guidelines*) until they cross the border into other countries. Once they arrive in Mexico, the laws of Mexico and the rules of SPEI apply. Examples of rule differences include, but are not limited to, the following:

- Prenotes and NOCs are not supported in Mexico.
- Return times for Mexico are shorter than in the U.S for credit items. In SPEI, timeframes for returns are the same business day as the day of receipt. If these transactions are not received within the same business day, they must be handled individually and outside of the SPEI network.
- Mexican financial institutions do not distinguish between checking and savings accounts.

In Mexico, banking institutions are identified by a three-digit number assigned by the Asociación de Banqueros de México (ABM), which is the Mexican Bankers Association. ABM has a [website](#) but does not publish a bank number. A list of the financial institutions that can be reached through FedGlobal ACH Payments is provided in Appendix G of this document.

Mexican Receiver Account Numbers

There are two types of account numbers that ODFIs can use to originate a cross-border item to Mexico: a checking account number, known as the Clave Bancaria Estandarizada (CLABE), or a debit card account number.

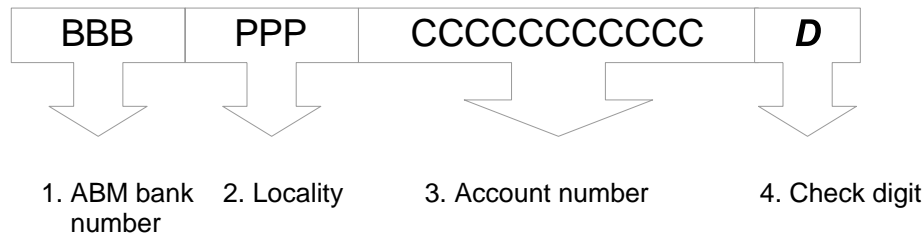
1. The CLABE is a standardized bank code that was established by the Mexican banking system for checking account numbers. It is an 18-digit number that uniquely identifies account holders and guarantees the correct posting of the electronic funds transfer operations throughout the SPEI processing platform. The CLABE replaced the previous 11-digit numbering convention for checking accounts. The receiver can easily identify his or her CLABE as it appears on the customer's checking account statement, or it can also be obtained directly from the bank in Mexico that offers the account.

An originator must ensure that it receives the 18-digit CLABE associated with the checking account held by receivers in Mexico to ensure that the payments can be processed. Items containing the previous 11-digit checking account number can no longer be processed successfully.

2. The second numbering scheme pertains to debit card accounts. Debit card account numbers have 16-digit numeric positions. They are not affected by the CLABE requirement, which applies only to checking accounts. Debit card account numbers change if the card is lost or canceled. All debit card accounts have an associated CLABE account number; therefore, it is recommended that the ODFI ask for the CLABE account number.

Calculating a CLABE Check Digit

A CLABE check digit calculator is available on the [FedGlobal Processing webpage](#).



CLABE Structure

CLABE component	Populate with:
1. BBB	ABM number; three digits
2. PPP	Locality; three digits
3. CCCCCCCCCC	Checking account number; 11 digits
4. D	Check digit; one digit

As an example, take a CLABE where the first 17 positions are:
 “10315012415234578.”

- As shown in the table below, multiply each of the first 17 digits of the CLABE by the following alternating numbers: 371. Record only the last digit as the result. For example, the fifth digit of the CLABE below is 5, and its corresponding multiplier is 7. When you multiply 5 by 7, you get 35, but you should only record the last digit of 35, which is 5.

CLABE digit	1	0	3	1	5	0	1	2	4	1	5	2	3	4	5	7	8
Multiplier	3	7	1	3	7	1	3	7	1	3	7	1	3	7	1	3	7
Result	3	0	3	3	5	0	3	4	4	3	5	2	9	8	5	1	6

- Sum the results from step 1, which in this example will give you $3+0+3+3+5+0+3+4+4+3+5+2+9+8+5+1+6 = 64$.
- Take the last digit of the sum from step 2, which in this example is **4**.
- To get the check digit, subtract the number from step 3 from 10. In this example, you would subtract 4 from 10, which gives you a check digit of 6.



Note: If the number from step 3 is 0, the check digit will also be 0.

Foreign Exchange Options

The Mexico service only supports payments received in accounts denominated in pesos. A small percentage of Mexican bank accounts are denominated in USD or other foreign currencies; these accounts are not currently supported by this

service. Therefore, the Mexico service allows for sending cross-border items using FV exchange (USD to pesos) via the Directo a México® service or FF exchange (pesos to pesos) using F3X.

For the FV process, items are originated in a fixed amount of USD and paid in a variable amount of Mexican pesos based on Banxico's daily exchange rate for the date the transaction is processed. Each day, Banxico sets a foreign exchange rate, which is then posted on the [FedGlobal Foreign Exchange Rates page](#) shortly after 13:00 ET. All settlement with U.S. participants is in USD for the FV process.

For the F3X process, items are originated and received in a fixed amount of pesos, enabling the ODFI to manage its own FX rate with its customers. Settlement is conducted outside of the ACH network through a foreign correspondent, the Mexican Correspondent Financial Institution (MCFI). This FX option requires a separate service request form with FEDERAL RESERVE FINANCIAL SERVICES to participate. Please contact your relationship manager for this form. The ODFI must also open and maintain an account with a MCFI that is authorized to participate in SPEI and that is capable of originating and receiving payments through the SPEI system. A list of MCFIs represented with ABM numbers for receiving Mexican Institutions participating in SPEI is included in Appendix G: FedGlobal ACH Payments Mexico Service.

There are two processing streams for the F3X service. The first consists only of the transmission of F3X ACH messages between the ODFI and Banxico via FedACH Services. Once the ODFI transmits the F3X ACH messages to FedACH Services, FedACH Services will edit, process and send the messages to Banxico. Banxico then will edit and hold the F3X messages, pending certain actions taken by the ODFI through an MCFI in the second processing stream. This first phase does not involve any kind of settlement between the ODFI, FedACH Services and Banxico.

The second processing stream involves the ODFI requesting that the MCFI send a payment order to Banxico via the SPEI system. The payment order must satisfy certain formatting, informational and settlement requirements, as set forth in this service manual and the SPEI rules. Assuming the payment order from the MCFI satisfies these requirements, Banxico will link this payment order with corresponding F3X ACH messages it receives from FEDERAL RESERVE FINANCIAL SERVICES. It will then send all corresponding items via SPEI to the appropriate receivers' account at the Mexican RDFIs, in accordance with the

information contained in the F3X ACH messages. The ODFI is considered the initiator of the payment instruction. The MCFI serves as the ODFI's settlement correspondent of pesos in Mexico. It also serves as the SPEI participant instructing Banxico, the providing participant, to disburse cross-border items, according to the SPEI rules.

Payment and Settlement Flows

This section describes both processing and delivery schedules for the Mexican service. ODFIs submit a Nacha-formatted file that can contain both domestic and cross-border transactions to FedACH Services. Cross-border items must be batched separately within a file. ODFIs also must batch FV items and F3X items separately. FedACH Services edits the file and validates the receiver as an eligible participant. The deposit deadline for cross-border items is 02:15 ET. Banxico translates the Nacha-formatted items into the Mexican SPEI format and converts the USD amounts to Mexican pesos for FV items. Banxico then distributes the transaction to RDFIs in Mexico with funds available to the receiver no later than 15:30 ET.

Fixed-to-Variable (FV — USD to Mexican Pesos) Items

This section describes the FV exchange option for credit transactions, including both account-to-account and account-to-receiver transactions. The ODFI or Sending Point (SP) deposits as ACH input file with FedACH Services, which receives and processes the file. The deposit deadline is 02:15 ET on FedACH processing day zero². FedACH Services acknowledges receipt of the file for the ODFI/SP, creates the accounting entries, and makes settlement information available to the ODFI and Banxico. Banxico then reformats the items, converts the USD amounts to Mexican pesos at 13:30 ET and exchanges the payments with the Mexican banks. All settlement with U.S. participants is in USD.

The same exchange rate process is used for account-to-account and account-to-receiver payments to Mexico.

Fixed-to-Fixed (FF — Pesos to Pesos) Items — F3X Service

This section describes the process for an ODFI to send payments to Mexican receivers using the F3X service option. F3X ACH messages are deposited by the ODFI/SP by 2:15 ET on day zero, received and processed by FedACH Services

² The convention of “day zero” and “day one” is used to distinguish the “day” in which processing occurs versus the “day” in which settlement takes place and reflects the FedACH processing day cycle (e.g., start of day “zero” at 03:00 ET Monday through close of day “zero” at 02:15 ET on Tuesday).

and forwarded to Banxico by 06:00 ET on day one, where the items are converted to the Mexican SPEI format.

Separately, the ODFI instructs its MCFI to submit a SPEI payment order to Banxico with the total peso amount of the appropriate F3X Messages the ODFI has transmitted to FedACH on that day with the same settlement date. The settlement date used is indicated in the “Company Batch” header in an F3X message. However, if the date used is a Mexican banking holiday, the next Banxico banking day is the settlement date. The ODFI must instruct its MCFI to submit the SPEI payment order to Banxico with sufficient time to allow the MCFI to meet the 12:30 ET deadline.

The ODFI can submit the settlement instruction to the MCFI in two ways – pooled settlement or batched settlement. For a pooled settlement, the ODFI submits one payment order with the total amount (in pesos) for all F3X batches transmitted to FedACH Services with the same settlement date. For a batched settlement, the ODFI submits one payment order with the total amount (in pesos) for each F3X batch transmitted to FedACH Services with same settlement date for that day. The MCFI will then submit a SPEI-formatted payment order with the corresponding amount (in pesos) with sufficient time for the payment order to arrive at Banxico no later than 12:30 ET.

Each SPEI payment order must contain the following information for Banxico to appropriately link the F3X ACH messages with the settlement payment order:

- SPEI payment type: Third party-to-third party (consumer-to-consumer)
- SPEI payment order to be sent to Banxico (SPEI code: 001)
- ODFI account number (CLABE number) assigned by Banxico after the FedGlobal ACH Payments enrollment process (communicated to the ODFI via email)
- Unique reference code included in the F3X ACH messages for the ACH batch(es) to be settled
 - This reference code must comply with the coding requirements described in Appendix D of this document and be placed in the “Concepto del Pago” field of the SPEI payment order

Once Banxico receives and reconciles the SPEI payment orders, they will edit and transmit SPEI payments to the appropriate Mexican RDFIs, as specified by the instructions contained in the F3X ACH messages, no later than 15:30 ET on the Banxico settlement date. This means that F3X items sent to Mexico in

advance of the 12:30 ET deadline are forwarded to Mexican RDFIs earlier than items that require FX conversion.

No settlement occurs between the ODFI and FedACH Services. Settlement only occurs between the ODFI and the MCFI, between the MCFI and Banxico and between Banxico and the Mexican RDFIs. Settlement from Banxico to the Mexican RDFIs occurs on the same day as the ODFI settlement date, as indicated in the F3X messages, provided it is a banking day in Mexico. The receivers' accounts are also credited on this settlement date for the full amount of the payment (as the service structure requires that no fees be taken from the par amount of the transaction entry).

Holiday Schedule

At times, Mexican banking holidays differ from U.S. banking holidays, and ODFIs occasionally transmit items through FedACH Services for settlement on a Mexican holiday. When an ODFI submits items for settlement on a Mexican holiday that is not also a U.S. holiday, FedACH processes the items and settles against the ODFI's settlement account on the specified settlement date for the FV process. Banxico processes, delivers and settles the items to the receivers in Mexico on the next Mexican banking day. For the F3X service, the ODFI must initiate the SPEI payment order on the next Mexican banking day after the holiday.

The current Mexican banking holidays are:

- New Year's Day
- Constitution Day
- Benito Juárez's Birthday
- Holy Thursday
- Good Friday
- Labor Day
- Independence Day
- Day of the Dead
- Mexican Revolution Day
- Virgin of Guadalupe Day
- Christmas Day

Exception Processing

Return Items

When Banxico receives ACH files from FedACH Services, the payments are processed and distributed to Mexican RDFIs through the Mexican payments system. The RDFI may then find it necessary to return an item.

The procedures below outline the steps involved in two return item scenarios: items returned/rejected by Banxico and items returned by a Mexican RDFI. Items are returned using one of the following U.S. Nacha return reason codes.

Code	Reason
R02	Account Closed
R03	No Account/Unable to Locate Account
R04	Invalid Account Number Structure
R06	Returned per ODFI's Request
R16	Account Frozen
R17	File Record Edit Criteria
R80	IAT Coding Error
R81	Non-Participant in IAT Program
R82	Invalid Foreign Receiving DFI Identification
R84	Entry not Processed by OGO

Items Returned by Banxico

Upon receipt of items from FedACH Services, Banxico may be unable to process some payments and will return these payments. For the FV process, Banxico will return the cross-border items prior to applying FX rate conversion. Items may be returned because the Mexican ABM or the CLABE account number is invalid or incorrect. It is critical that ODFIs correct errors in items returned for edit failures before they are retransmitted, as this prevents multiple rejections for the same error.

For the F3X process, Banxico may return a cross-border item for the same reasons as described above. Additionally, the following return scenarios are related to either the inability to link the F3X ACH messages to the settlement payment order or to not receiving adequate funds by the MCFI. Refer to the "SPEI Format Returns for the F3X Service" section of this document for specifications related to SPEI payment order returns.

F3X return reasons include:

1. **Insufficient pooled settlement:** If the SPEI payment order for pooled settlement from the MCFI does not contain funds in an amount equal to or exceeding the sum of all F3X ACH messages that have the corresponding settlement date from the ODFI, then Banxico returns all F3X ACH messages to FedACH Services in the Nacha format. The return reason code is “R83,” the funds received from the MCFI by SPEI payment order return to the MCFI.
2. **Insufficient batched settlement:** If the SPEI payment order for batched settlement from the MCFI does not contain funds in an amount equal to or exceeding the sum of all F3X ACH messages contained in a batch that is linked to the payment order, then Banxico returns all F3X ACH messages in the batch to FedACH Services in the Nacha format. The return reason code is “R83,” and the funds received from the MCFI by SPEI payment order return to the MCFI.
3. **Mismatched batches or lack of ODFI CLABE number:** If the “Company Entry Description” field in a batch of F3X ACH messages and the “Concepto del Pago” field in the SPEI settlement message do not match (“Mismatched Batches”), then Banxico returns the F3X ACH messages and generates the corresponding returns to FedACH Services in the Nacha format with return reason code “R83.” Similarly, Banxico returns all F3X ACH messages contained in batches for which there is no corresponding payment order with the matching ODFI CLABE number. Banxico returns all funds related to any mismatched event to the MCFI through SPEI.
4. **Mismatched funding:** If the “Concepto del Pago” field in the SPEI payment order does not comply with the structure specified in Appendix E of this document, settlement for those transactions returns to the MCFI through SPEI.
5. **Excess of Funds:** If there are more funds than needed to cover all F3X ACH messages received by Banxico from an ODFI with the corresponding settlement date, Banxico returns the difference between the funds received and the total amount of payment orders submitted to Mexican RDFIs (“excess”). Settlement for those transactions is returned to the

MCFI through SPEI by 14:00 ET.

6. **Funds received from the MCFI after 12:30 ET:** All SPEI payment orders related to the F3X process received after 12:30 ET are returned to the MCFI. If they receive these funds before 17:00 ET, Banxico returns the resultant SPEI payment orders to the MCFI no later than 17:30 ET on the same banking day. If they receive the funds after 17:00 ET, Banxico forwards the resultant SPEI payment orders to the MCFI on the following banking day at 10:00 ET. Banxico returns the F3X ACH messages contained in such mismatched batches and generates the corresponding returns to FedACH Services in the Nacha format with return reason code "R83."

Items Returned by the RDFI or Receiver

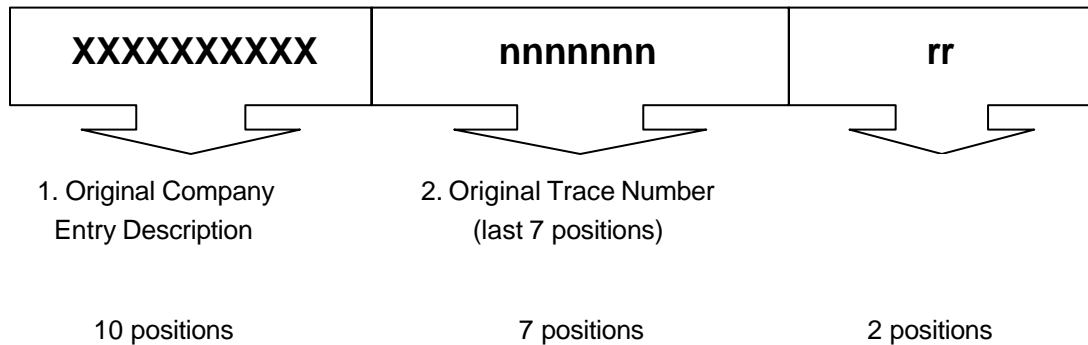
All items processed by Banxico may be returned if the RDFI is unable to post the items (e.g., account closed, invalid account number). Items are generally returned no later than the business day following receipt by the first organizational unit that can accept an item.

For all returns, if the Mexican RDFI submits the return to Banxico before 17:00 ET, Banxico will forward the return to FedACH Services no later than 17:30 ET on the same banking day. FedACH Services then makes the return items available to the U.S. ODFI by 22:00 ET on the same banking day. If the Mexican RDFI submits the return to Banxico after 17:00 ET, Banxico forwards the return to FedACH Services no later than 10:00 ET on the following banking day; FedACH Services then makes the return items available to the U.S. ODFI by 13:00 ET on the same banking day. For cross-border items using the FV process, Banxico reconverts the payment to USD prior to sending the items to FedACH Services. The FX rate used will differ from the original item; therefore, the USD amount returned may also differ from the amount originally sent.

For the F3X service, return settlement follows the same channels as the forward process. At the same time as it transmits return items to FedACH Services, Banxico settles with the MCFI for such returns by making a SPEI payment for each Mexican RDFI return forwarded to the U.S. ODFI that day. Settlement for those transactions returns to the MCFI through SPEI, as detailed in the following section of this document.

SPEI Format Returns for the F3X Service

Banxico includes the field "Concepto del pago" (the reason for the return) in the SPEI message, as show below.



SPEI Format Returns for the F3X Service

Return reason code	Concept	Settlement message	"Concepto del Pago" field in SPEI message	Occurs when
01	Mismatched funding: inability to link the SPEI Payment Order to the ACH messages due to a format error in the "Concepto del Pago" field	In this case, there is no specific batch ID nor trace number; Banxico uses the original "Concepto del Pago" information from the MCFI	1F3X123456000 000001	<ul style="list-style-type: none"> The field "Concepto del Pago" included into the SPEI message does not comply with the structure specified in Appendix D of this document. Settlement schedule in SPEI: no later than 14:00 ET (13:00 Mexican/Central Time [CT])

02	Mismatched batch: inability to link the payment order to the ACH message due to inconsistency between the "Concepto del Pago" and "Company Entry Description" fields	The original "Concepto del Pago" information will be returned to the MCFI with the corresponding exception code. In this case, there is no specific trace number, so Banxico will use a seven-zero string.	1F3X123456000 000002	<ul style="list-style-type: none"> • For pooled settlement: the batch counter included in the SPEI message from the MCFI less than the number of U.S. ODFI batches to be settled on that date • For batch settlement: there is no correspondence between the "Concepto del Pago" field in the SPEI message from the MCFI and that day's batch IDs for the U.S. ODFI • File reject: a whole file was rejected because Banxico has no ID from that file's batches • Settlement schedule in SPEI: no later than 14:00 ET (13:00 CT)
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03	Excess of funds	As the excess funds are not a return of a SPEI payment order from a Mexican RDFI, Banxico will insert seven zeroes in the original "Concepto del Pago" field, plus the exception code "03"	1F3X12345600 0000003	<ul style="list-style-type: none"> • The MCFI has sent more funds than necessary for settlement • Settlement schedule in SPEI: no later than 14:00 ET (13:00 CT)
04	Insufficient funds	The original "Concepto del Pago" information will be returned to the MCFI with the corresponding exception code	1F3X123456000 000004	<ul style="list-style-type: none"> • The amount settled is smaller than the amount expected. All batches included in the SPEI payment order are sent back. The items included in the ACH return file have the exception code "R83" • Settlement schedule in SPEI: no later than 14:00 ET (13:00 CT)

05	Returns from the Mexican RDFIs	The field “Concepto del Pago” included in the SPEI message from Banxico to the MCFI will contain the original company entry description, the last seven digits of the original trace number and the corresponding exception code for each item.	1F3X123456000 000005	<ul style="list-style-type: none"> When the Mexican RDFI cannot post the funds, it must return the items, and Banxico must generate a payment order to the MCFI for each item returned Settlement schedule in SPEI: No later than 17:30 ET (16:30 CT), provided the return is received no later than 17:00 ET (16:00 CT), or on the following banking day at 10:00 ET (9:00 CT) if the return is received after 17:00 ET (16:00 CT)
06	Item/batch rejects when they do not comply with standard edits	The original “Concepto del Pago” information will be included in the SPEI payment order to the MCFI with the corresponding	1F3X12345600 0000006	<ul style="list-style-type: none"> There has been batch/item rejected by Banxico Settlement schedule in SPEI: no later than 14:00 ET (13:00 CT)

		<p>exception code</p> <p>In this case there is no specific trace number; Banxico will use a seven-zero string.</p>		
07	Funds received after deadline	The original "Concepto del Pago" information will be returned to the MCFI, with the corresponding exception code	1F3X123456000 000007	<ul style="list-style-type: none"> • The payment order related to F3X settlement was received after 12:30 ET (11:30 CT) • Settlement schedule in SPEI: on the same day, no later than 17:30 ET (16:30 CT), provided the payment order was received no later than 17:00 ET (16:00 CT) or on the following banking day at 10:00 ET (9:00 CT) if the payment is received after 17:00 ET (16:00 CT)
13	Not a participant in the F3X service	The original "Concepto del Pago" information will be included in the return to the	N/A	When the U.S. ODFI cannot be identified as a participant in the F3X service, a return to the

		correspondent participant		correspondent participant is generated
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Other Information

Operational Tools

Banxico has established a [tracing webpage](#) that enables a U.S. ODFI to trace the previous three business days' SPEI payment orders between Banxico and the Mexican RDFI, as well as between the MCFI and Banxico (for the F3X service). To trace payment orders, the U.S. ODFI should input the last seven digits of the trace number contained in the IAT Entry Detail Record in addition to the ABM of the appropriate sending and receiving Mexican institution. For the FV process, the sending institution is Banxico (ABM 001), and the receiving institution is the appropriate Mexican RDFI corresponding to the cross-border ACH item. For the F3X process, the sending institution is the MCFI, while the receiving institution is Banxico. Refer to Appendix D of this document for more information about using the self-service item trace website.

The U.S. ODFI may also contact FedACH and Check Services Customer Support to initiate a formal item trace. FEDERAL RESERVE FINANCIAL SERVICES works with Banxico to answer inquiries and to provide a response within four business days. For the F3X process, if inquiries relate to settlement delivery, U.S. ODFIs should contact the MCFI, who can then contact Banxico for a resolution.

Marketing Tools

FEDERAL RESERVE FINANCIAL SERVICES Banco de Mexico developed a [Directo a México® website](#). This website offers information in Spanish and English tailored to both consumers and financial institutions. It also includes daily information on the FX rate used, frequently asked questions and a branch locator tool for active and participating U.S. ODFIs.

Panama Requirements

Processing

Service Description

FEDERAL RESERVE FINANCIAL SERVICES, Banco Nacional de Panama and Telered S.A. work together to serve as conduits to their domestic payments systems to accomplish straight-through processing of payments. The national bank of Panama, Banco Nacional de Panama, acts as the FGO, while Telered acts as the processing and information service provider and agent for all cross-border items in Panama. The Panama service supports forward ACH one-day and two-day credits originated in the U.S. and destined to any receiver's account at a commercial bank in Panama.

As Panama's official currency is USD, there is no FX conversion process. Therefore, the Panama service allows for the FF (USD to USD) FX process. All settlement between parties in the U.S. and Panama is in USD.

Panamanian Payments System Overview

In Panama, the ACH network was established in 1998 and is maintained, regulated and operated by Telered's ACH Directo service. ACH Directo uses the *Nacha Operating Rules and Guidelines* as a basis for the Panama ACH network and has been an affiliated Nacha member since 1997. Today the network has more than 30 member financial institutions and more than 3,500 originators. Banco Nacional de Panama provides the settlement for payments processed to the Panamanian RDFIs.

ACH items originated in the U.S. are governed by U.S. laws and rules (including OC 4 and the *Nacha Operating Rules and Guidelines*) until they cross the border into Panama. Once they arrive in Panama, Panamanian laws and local ACH network rules apply. While ACH Directo generally follows the *Nacha Operating Rules and Guidelines*, there are some variations. Examples of rule differences include, but are not be limited to, the following:

- Panama allows credit card payments through the local ACH network as demand credit transactions. The credit card number appears on the account number field.

- Returned transactions are processed on the day they are received by the local ACH operator. If these transactions are not received within the processing windows, they are handled individually and outside of the ACH network.

Banking institutions in Panama are identified by nine-digit numbers assigned by the Bank Superintendency in Panama. Appendix H of this document provides a list of the financial institutions that can be reached through FedGlobal ACH Payments.

Payment and Settlement Flows

ODFIs submit a Nacha-formatted file that may contain both domestic and cross-border transactions to FedACH Services. Cross-border items must be batched separately within a file. FedACH Services edits the file and validates that receipt is from an eligible participant. The deposit deadline for cross-border items is 02:15 ET/Panama time. Files are transmitted to Telerep following standard FedACH processing delivery windows (no later than 06:00 ET). Telerep applies the necessary edits and subsequently distributes the transaction to RDFIs in Panama.

Transactions are delivered to Panama RDFIs according to standard Panama ACH delivery schedules. Payments are posted to the receivers' accounts after 16:30 ET on the following business day.

Settlement for cross-border transactions between ODFIs and FedACH Services occurs in USD and is reflected on the *ACH End-of-Day Advice and Reserve Account Statement*. The Panamanian receiver's account is credited for the full amount of the transaction; the service structure requires that no fees be deducted by the receiving institution from the principal amount of the transaction entry.

FF (USD to USD) Items

This section describes an ODFI or SP sending cross-border credit transactions to Panamanian receivers using the FF payment option. The ODFI/SP deposits as ACH input file with FedACH Services, which receives and processes the file. The deposit deadline is 02:15 ET on FedACH processing day zero³. FedACH Services acknowledges receipt of the file for the ODFI/SP, creates the

³ The convention of "day zero" and "day one" is used to distinguish the "day" in which processing occurs versus the "day" in which settlement takes place and reflects the FedACH processing day cycle (e.g., start of day "zero" at 03:00 ET Monday through close of day "zero" at 02:15 ET on Tuesday).

accounting entries and makes available settlement information to the ODFI and Banco Nacional de Panama. Telered receives the Panamanian items in the file from FedACH Services by 06:00 ET on day one. As there is no FX, items are delivered to Panamanian banks in USD.

Holiday Schedule

At times, Panamanian banking holidays differ from U.S. banking holidays, and ODFIs occasionally transmit items for settlement on a Panamanian holiday. When an ODFI submits items for settlement on a Panamanian banking holiday that is not a U.S. holiday, FedACH Services processes the items and settles against the ODFI's settlement account on the specified settlement date. Telered processes, delivers and settles the items to the receivers in Panama on the next Panamanian banking day after the holiday.

Current Panamanian banking holidays include:

- New Year's Day
- Martyr's Day
- Carnival Monday
- Carnival Tuesday
- Ash Wednesday
- Good Thursday
- Good Friday
- Labor Day
- Separation from Colombia Day
- Flag Day
- Colón Day
- Primer Grito de Independencia de la Villa de Los Santos
- Mother's Day
- Christmas Eve
- Christmas Day
- New Year's Eve

Prenotification and Notification of Change

Prenotes are supported in the Panama service and may be initiated to help ensure that subsequent entries to a receiver's account at a Panamanian RDFI are posted appropriately. Telered complies with the prenote requirements outlined in the *Nacha Operating Rules and Guidelines*.

NOC processing is supported in the Panama service. NOCs may be initiated to notify ODFIs in the U.S. that previously valid information contained in a posted entry has become outdated and should be changed. Telerec complies with the NOC format specifications outlined in the *Nacha Operating Rules and Guidelines*.

Exception Processing

Return Items

When Panama receives files from FedACH Services, they are processed and distributed to receiving institutions through the Panamanian payments system. Subsequently, the Panamanian RDFI may find it necessary to return an item.

The procedures below outline the steps involved in two return item scenarios, items returned/rejected by Telerec and items returned by a Panamanian RDFI. Items are returned using one of the following U.S. Nacha return reason codes.

Code	Reason
R02	Account Closed
R03	No Account/Unable to Locate Account
R04	Invalid Account Number
R06	Returned per ODFI's Request
R07	Authorization Revoked by Customer
R08	Payment Stopped
R09	Uncollected Funds
R12	Account Sold to Another DFI
R14	Representative Payee Deceased or Unable to Continue in That Capacity
R15	Beneficiary or Account Holder (Other Than Representative Payee) Deceased
R16	Account Frozen
R17	File Record Edit Criteria
R20	Non-Transaction Account
R21	Invalid Company Identification
R22	Invalid Individual ID Number
R23	Credit Refused by Receiver
R24	Duplicate Entry
R80	IAT Entry Coding Error
R81	Non-Participant in IAT Program

R82	Invalid Foreign Receiving DFI Identification
R84	Entry Not Processed by OGO

Items Returned by Teleread

Upon receipt of items from FedACH Services, Teleread may be unable to process some payments and will return these payments. Items may be returned because the Panamanian ABA and account numbers in the addenda records are not within Teleread's defined edit range. It is critical that ODFIs correct errors in items returned for edit failures before they are retransmitted, as this prevents multiple rejections for the same error.

Items Returned by the RDFI or Receiver

Items processed by Teleread to the receiving institution may be returned if the RDFI is unable to post the items (e.g., account closed, invalid account number). Items will generally be returned no later than the business day following receipt.

Appendix A: IAT Format Origination Matrix/Account-to-Account Payments

ACH File Header (Same as Domestic File Header)

IAT Company Batch Header

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"5"	"5"
2	Service Class Code	M	"220" for credits only "200" for mixed credits and debits	"220" for credits only "200" for mixed credits and debits
3	IAT Indicator	O	Leave blank (must include "IATCOR" for NOCs)	Leave blank - (must include "IATCOR" for NOCs)
4	FX Indicator	M	FV	FF
5	FX Reference Indicator	R	"3"	"3"
6	FX Reference	R	Leave blank	Leave blank
7	ISO Destination Country Code	M	MX	PA
8	Originator Identification	M	Assigned by ODFI for each originator	Assigned by ODFI for each originator
9	Standard Entry Class Code	M	"IAT"	"IAT"
10	Company Entry Description	M	Provided by originator	Provided by originator
11	ISO Originating Currency Code	M	USD	USD
12	ISO Destination Currency Code	M	MXN	USD
13	Effective Entry Date	R	"YYMMDD"	"YYMMDD"

14	Settlement Date	Inserted by ACH operator	Leave blank	Leave blank
15	Originator Status Code	M	"1"	"1"
16	GO Identification/ ODFI Identification	M	Routing transit number of ODFI	Routing transit number of ODFI
17	Batch Number	M	Start at ODFI-designated number	Start at ODFI-designated number

IAT Entry Detail Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"6"	"6"
2	Transaction Code	M	"22" for checking credits "32" for savings credits	"22" for checking credits "32" for savings credits "52" for loan credits
3	GO Identification/ RDFI Identification	M	"091050700"	"091050807"
4	Check Digit	M	Combined with field 3 above	Combined with field 3 above
5	Number of Addenda Records	M	Total number of addenda	Total number of addenda
6	RESERVED	N/A	Leave blank	Leave blank
7	Amount	M	Amount of payment	Amount of payment
8	Foreign Receiver's Acct No./DFI Acct No	M	Account number of receiver (use 18 digits for CLABE number and 16	Account number of receiver

			digits for debit card number)	
9	RESERVED	N/A	Leave blank	Leave blank
10	Gateway Operator OFAC Screening Indicator	O	Leave blank	Leave blank
11	Secondary OFAC Screening Indicator	O	Leave blank	Leave blank
12	Addenda Record Indicator	M	"1"	"1"
13	Trace Number	M	Assigned by ODFI	Assigned by ODFI

First IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"10"	"10"
3	Transaction Type Code	R	Type of payment: ANN, BUS, DEP, LOA, MIS, MOR, PEN, RLS, SAL, TAX	Type of payment: ANN, BUS, DEP, LOA, MIS, MOR, PEN, RLS, SAL, TAX
4	Foreign Payment Amount	R	For FV payments, this field should be "0"	This field should contain the USD amount or be blank
5	Foreign Trace Number	O	Insert blanks or zeros	Insert blanks or zeros

6	Receiving Company Name/ Individual Name	M	Provided by originator (customer name)	Provided by originator (customer name)
7	RESERVED	N/A	Leave blank	Leave blank
8	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

Second IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"11"	"11"
3	Originator Name	M	Originator's name	Originator's name
4	Originator Street Address	M	Originator's physical address	Originator's physical address
5	RESERVED	N/A	Leave blank	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

Third IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"12"	"12"

3	Originator City & State/Province	M	Originator's city, state/province location (use an asterisk [*] to separate each element and a backslash [\] at the end of the record)	Originator's city, state/ province location (use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
4	Originator Country & Postal Code	M	Originator's country and zip code (must use a valid ISO Code from Appendix F as the country name. Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)	Originator's country and zip code (must use a valid ISO Code from Appendix F as the country name. Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
5	RESERVED	N/A	Leave blank	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

Fourth IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"13"	"13"
3	Originating DFI Name	M	ODFI's name	ODFI's name

4	Originating DFI Identification Number Qualifier	M	"01" (National Clearing System)	"01" (National Clearing System)
5	Originating DFI Identification	M	ODFI's routing transit number	ODFI's routing transit number
6	Originating DFI Branch Country Code	M	"US" (two-character ISO Code assigned to the ODFI's country)	"US" (two-character ISO Code assigned to the ODFI's country)
7	RESERVED	N/A	Blank	Blank
8	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

Fifth IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"14"	"14"
3	Receiving DFI Name	M	RDFI's name	RDFI's name
4	Receiving DFI Identification Number Qualifier	M	"01" (National Clearing System)	"01" (National Clearing System)
5	Receiving DFI Identification	M	Foreign RDFI's routing transit number (3-digit ABM of RDFI)	Foreign RDFI's routing transit number (nine digits)

6	Receiving DFI Branch Country Code	M	MX	PA
7	RESERVED	N/A	Leave blank	Leave blank
8	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

Sixth IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"15"	"15"
3	Receiver Identification Number	O	Used by the originator to identify the receiver or may be used for tracing purposes	Used by the originator to identify the receiver or may be used for tracing purposes
4	Receiver Street Address	M	Receiver's physical address	Receiver's physical address
5	RESERVED	N/A	Leave blank	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

Seventh IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type	M	"7"	"7"

	Code			
2	Addenda Type Code	M	"16"	"16"
3	Receiver City & State/ Province (Note: Must include each element in the order listed)	M	Receiver's city, state/ province location (Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)	Receiver's city, state/ province location (Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
4	Receiver Country and Postal Code (Note: Must include each element in the order listed)	M	Receiver's country and zip code (use a valid ISO Code from Appendix F as the country name. Also, use an asterisk [*] to separate each element and a backslash [\] at the end of the record]	Receiver's country and zip code (use a valid ISO Code from Appendix F as the country name. Also, use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
5	RESERVED	N/A	Leave blank	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record

IAT Addenda Record for Remittance Information

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico	Panama
1	Record Type Code	M	"7"	"7"
2	Addenda Type Code	M	"17"	"17"
3	Payment Related	O	Freeform text	Freeform text

	Information			
4	Addenda Sequence Number	M	Sequence number of type code "17" addenda records in ascending order beginning with 0001	Sequence number of type code "17" addenda records in ascending order beginning with 0001
5	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record	Last seven digits used for the trace number in the Entry Detail Record



Note: Originators must use a two-character ISO Country Code in fields where the country name must be specified. Failure to use these codes may cause payments to reject or other processing-related problems to occur. See Appendix F of this document for a list of valid codes.

Appendix B: IAT Format Origination Matrix/F3X Payments

ACH File Header (Same as Domestic File Header)

IAT Company Batch Header

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"5"
2	Service Class Code	M	"220" for credits only "200" for mixed credits and debits
3	IAT Indicator	O	Leave blank (Note: Must include "IATCOR" for NOCs only)
4	FX Indicator	M	FF
5	FX Reference Indicator	R	"1" for FX rate "2" for FX reference "3" for space filled
6	FX Reference	R	Formatted to correspond with field #5 above
7	ISO Destination Country Code	M	MX
8	Originator Identification	M	Assigned by ODFI for each originator
9	Standard Entry Class Code	M	"IAT"
10	Company Entry Description	M	Formatted according to F3X coding requirements: "NF3XNNNNNN" where <ul style="list-style-type: none"> N = settlement (1 for pooled or 2 for batch) "F3X" NNNNNN = Number of batches settled (if pooled) or batch identification
11	ISO Originating Currency Code	M	MXN
12	ISO Destination Currency Code	M	MXN
13	Effective Entry Date	R	"YYMMDD"

14	Settlement Date	Inserted by ACH operator	Leave blank
15	Originator Status Code	M	"1"
16	GO Identification/ ODFI Identification	M	Routing transit number of ODFI
17	Batch Number	M	Start at ODFI designated number

IAT Entry Detail Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"6"
2	Transaction Code	M	"24" for zero-dollar transaction
3	GO Identification/ RDFI Identification	M	"091050700"
4	Check Digit	M	Combined with field #3 above
5	Number of Addenda Records	M	Total number of addenda
6	RESERVED	N/A	Leave blank
7	Amount	M	"0"
8	Foreign Receiver's Acct No./DFI Acct No.--M	M	Account number of receiver (Use 18 digits for a CLABE number and 16 digits for a debit card number)
9	RESERVED	N/A	Leave blank
10	Gateway Operator OFAC Screening Indicator	O	Leave blank
11	Secondary OFAC Screening Indicator	O	Leave blank
12	Addenda Record Indicator	M	"1"
13	Trace Number	M	Assigned by ODFI

First IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
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1	Record Type Code	M	"7"
2	Addenda Type Code	M	"10"
3	Transaction Type Code	R	Type of payment: ANN, BUS, DEP, LOA, MIS, MOR, PEN, RLS, SAL, TAX
4	Foreign Payment Amount	R	For FF payments, this field should contain the peso amount to be paid to the beneficiary
5	Foreign Trace Number	O	Insert blanks or zeros
6	Receiving Company Name/Individual Name	M	Provided by originator (customer name)
7	RESERVED	N/A	Leave blank
8	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

Second IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"11"
3	Originator Name	M	Originator's name
4	Originator Street Address	M	Originator's physical address
5	RESERVED	N/A	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

Third IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"12"

3	Originator City & State/Province	M	Originator's city and state/province location (Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
4	Originator Country & Postal Code	M	Originator's country and zip code (use a valid ISO Code from Appendix F as the country name. Also, use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
5	RESERVED	N/A	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

Fourth IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"13"
3	Originating DFI Name	M	ODFI's name
4	Originating DFI Identification Number Qualifier	M	"01" (National Clearing System)
5	Originating DFI Identification	M	ODFI's routing transit number
6	Originating DFI Branch Country Code	M	"US" (Two-character ISO Code assigned to the ODFI's country)
7	RESERVED	N/A	Blank
8	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

Fifth IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"14"

3	Receiving DFI Name	M	RDFI's name
4	Receiving DFI Identification Number Qualifier	M	"01" (National Clearing System)
5	Receiving DFI Identification	M	Foreign RDFI's routing transit number (3-digit ABM of RDFI)
6	Receiving DFI Branch Country Code	M	MX
7	RESERVED	N/A	Leave blank
8	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

Sixth IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"15"
3	Receiver Identification Number	O	Used by the originator to identify the receiver or may be used for tracing purposes
4	Receiver Street Address	M	Receiver's physical address
5	RESERVED	N/A	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

Seventh IAT Addenda Record

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"16"
3	Receiver City & State/Province	M	Receiver's city and state/province location (Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)

4	Receiver Country and Postal Code	M	Receiver's country and zip code (Must use a valid ISO Code from Appendix F as the country name. Use an asterisk [*] to separate each element and a backslash [\] at the end of the record)
5	RESERVED	N/A	Leave blank
6	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record

IAT Addenda Record for Remittance Information

Field #	Field name	FedGlobal ACH inclusion requirement	Mexico F3X
1	Record Type Code	M	"7"
2	Addenda Type Code	M	"17"
3	Payment Related Information	O	Freeform text
4	Addenda Sequence Number	M	Sequence number of Type Code "17" addenda records in ascending order beginning with 0001
5	Entry Detail Sequence Number	M	Last seven digits used for the trace number in the Entry Detail Record



Note: Originators must use a two-character ISO Country Code in fields where the country name must be specified. Failure to use these codes may cause payments to reject or other processing-related problems. See Appendix F of this document for a list of valid codes.

Appendix C: Guide to a Successful FedGlobal ACH Payments Launch

Take the following steps to help implement a successful FedGlobal ACH Payments service:

1. Information Gathering
 - a. Contact your relationship manager for assistance with implementing a FedGlobal ACH Payments origination program.
 - b. Review reference materials, including this document.
 - c. Ensure backroom operations support FedGlobal ACH Payments.
 - d. Ensure software accommodates cross-border SEC Code IAT.
 - e. Ensure understanding of field responses required for Federal Reserve's FedGlobal ACH Services (outlined in this document).
 - f. Ensure understanding of how the foreign RDFI ABA number and receiver account number are formatted.
 - g. Begin planning for marketing service to customers and assist with enrollment process.
2. Service Set-up and Testing
 - a. Complete the service request form located in Part 6A of the *FedACH Participation Agreement*.
 - b. Forward the completed service request form to your relationship manager.
 - c. Respond to the FedACH testing coordinator, who will contact you to schedule format testing, provide a test script and answer any questions regarding formatting and testing parameters.
 - d. Conduct testing as scheduled, following the scripts.
 - e. Consult with the FedACH testing coordinator regarding test results.
 - f. Confirm that internal administrative/operational procedures are in place.
 - g. Confirm the successful test and the production service date with the FedACH testing coordinator.

Congratulations! You are ready to begin originating international payments.

Appendix D: Mexico F3X Specifications

USODFI Contact Information

USODFI Name: _____

USODFI Address: _____

Enrolled RT Number: _____

Email address (operational contact): _____

Banxico will assign a CLABE-type reference ID, known as the USODFI CLABE Number, for the U.S. ODFI based on its routing transit number. This links the SPEI settlement with the ACH messages and the instructions. Banxico will send the USODFI CLABE Number by email to the Federal Reserve within two days of receipt of the U.S. ODFI's information. The Federal Reserve will notify the U.S. ODFI of the USODFI CLABE Number assigned by Banxico.

U.S. ODFI's Mexican Correspondent Financial Institution Information

MCFI Name: _____

U.S. ODFI's Account Number at MCFI (18 digits): _____

Unique F3X Identifier to Link ACH Messages with SPEI settlement

The following unique F3X identifier must be used for the "Company Entry Description" field of the IAT Batch Header Record (field 10) and in the SPEI settlement record's "Concepto de Pago" field.



1. Settlement Type 2. Fixed Value: F3X 3. Identifier inserted by U.S. ODFI

Pooled: 1/ Batch: 2

3 positions

6 positions

When pooled settlement:

- **1**: To identify pooled settlement
- **F3X**: To identify the F3X service settlement
- **NNNNNN**: To identify the number of batches being settled for the U.S. ODFI (must be six numeric positions)

When batches settlement:

- **2:** To identify the batch settlement
- **F3X:** To identify the F3X service settlement
- **NNNNNN:** Unique identifier for each batch being settled for each settlement order



Note: The F3X identifier or the fixed value used in its naming convention should not be used in the “Company Entry Description” field of non-F3X payments.

Appendix E: FedGlobal ACH Payments ISO Destination Country and Currency Codes

FedGlobal ACH Service	Country	ISO Destination Country Code	ISO Destination Currency Code
Mexico	Mexico	MX	MXN
Panama	Panama	PA	USD

Appendix F: Instructions for Tracing Payments in Mexico's SPEI System

From the [Banxico website](#), complete the following fields, as shown in the screenshot below:

1. "Fecha en la que realizó el pago" ("Date of transaction"): Enter process date of transaction
2. "Criterio de búsqueda" ("Selection criteria"): Select "Número de referencia"
3. "Número de referencia" ("Reference number"): Enter the last seven digits of the reference number
4. "Institución emisora del pago" ("Payment-issuing institution"): Select "Banxico"
5. "Institución receptora del pago" ("Payment-receiving institution"): Select name of RDFI in Mexico
6. "Cuenta Beneficiaria"* ("Beneficiary account"): Enter beneficiary's account number
7. "Monto del pago"* ("Payment amount"): Enter amount of funds to be received

*Represents optional field

COMPROBANTE ELECTRÓNICO DE PAGO (CEP) CONSULTA

¿Ya tienes tu CEP y quieres validarlo?

Aviso de privacidad

Antes de ingresar sus datos le sugerimos consultar el aviso sobre el uso, incorporación, trato y protección que el Banco de México da a los datos personales de los particulares. Más información en <http://www.banxico.org.mx/transparencia/aviso-de-privacidad/aviso-privacidad-transparenc.html>

Aquí usted puede obtener el CEP de un pago realizado a través del SPEI®.

Fecha en la que realizó el pago:

01-08-2020

Criterio de búsqueda

Clave de rastreo

Clave de rastreo

Clave de rastreo

Institución emisora del pago

ABC CAPITAL

Institución receptora del pago

ACCENDO BANCO

Cuenta Beneficiaria *

Cuenta beneficiaria

(CLABE, tarjeta de débito o número de celular)

Pago a Banco *

☐

Monto del pago *

Monto del pago

Descargar CEP

¿Deseas descargar más de un CEP?

* Si no cuentas con la cuenta beneficiaria y el monto del pago, puedes consultar el estado del pago.

Consultar Pago

After completing the fields above, click the **Consultar Pago** button to search for your payment.



Note: For F3X item trace requests, the ABM of the Mexican RDFI must be selected in the “Institución receptora del pago” field, and “Banxico” must be selected for the “Institución emisora del pago” field.

Appendix G: FedGlobal ACH Payments Mexico Service

ABM Numbers for RDFIs (participants in SPEI)

ABM #	INSTITUTION NAME	SHORT NAME	INDIVIDUAL (R) COMMERCIAL (RC) ACCOUNTS
001	BANCO DE MÉXICO	BANXICO	RC
006	BANCO NACIONAL DE COMERCIO EXTERIOR, S.N.C.	BANCOMEXT	RC
009	BANCO NACIONAL DE OBRAS Y SERVICIOS PÚBLICOS, S.N.C.	BANOBRAS	RC
019	BANCO NACIONAL DEL EJÉRCITO, FUERZA AÉREA Y LA ARMADA, S.N.C.	BANJERCITO	R
135	NACIONAL FINANCIERA, S.N.C.	NAFIN	RC
166	BANCO DEL BIENESTAR, S.N.C	BABIEN	R
168	SOCIEDAD HIPOTECARIA FEDERAL, S.N.C.	HIPOTECARIA FED	RC
002	BANCO NACIONAL DE MÉXICO, S.A.	BANAMEX	R
012	BBVA BANCOMER, S.A.	BBVA MEXICO	R
014	BANCO SANTANDER (MÉXICO), S.A.	SANTANDER	R
021	HSBC MÉXICO, S.A.	HSBC	R
030	BANCO DEL BAJÍO, S.A.	BAJIO	R
036	BANCO INBURSA, S.A.	INBURSA	R
042	BANCA MIFEL, S.A.	MIFEL	R
044	SCOTIABANK INVERLAT, S.A.	SCOTIABANK	R
058	BANCO REGIONAL DE MONTERREY, S.A.	BANREGIO	R
059	BANCO INVEX, S.A.	INVEX	R
060	BANSI, S.A.	BANSI	R
062	BANCA AFIRME, S.A.	AFIRME	R
072	BANCO MERCANTIL DEL NORTE, S.A.,	BANORTE/IXE	R
106	BANK OF AMERICA MÉXICO, S.A.	BAMSA	R
108	MUFG BANK MEXICO, S.A.	TOKYO	R
110	BANCO JP MORGAN, S.A.,	JP MORGAN	R
112	BANCO MONEX, S.A.	BMONEX	R
113	BANCO VE POR MÁS, S.A.	VE POR MAS	R
127	BANCO AZTECA, S.A	AZTECA	R
128	BANCO AUTOFIN MÉXICO, S.A.	AUTOFIN	R
129	BARCLAYS BANK MÉXICO, S.A.	BARCLAYS	R
130	BANCO COMPARTAMOS, S.A.	COMPARTAMOS	R
132	BANCO MULTIVA, S.A.	BMULTIVA	R
133	BANCO ACTINVER, S.A.	ACTINVER	R
136	INTERCAM BANCO, S.A.	INTERCAM BANCO	R
137	BANCOPPEL, S.A.	BANCOPPEL	R
138	ABC CAPITAL, S.A.	ABC CAPITAL	R
140	CONSUBANCO, S.A.	CONSUBANCO	R
141	VOLKSWAGEN BANK, S.A.	VOLKSWAGEN	R
143	CIBANCO, S.A.	CIBANCO	R
145	BANCO BASE, S.A.	BBASE	R
147	BANKAOOL, S.A.	BANKAOOL	R
148	BANCO PAGATODO, S.A.	PAGATODO	R

150	BANCO INMOBILIARIO MEXICANO, S.A.	INMOBILIARIO	R
151	FUNDACIÓN DONDE BANCO, S.A.	DONDE	R
152	BANCO BANCREA, S.A.	BANCREA	R
154	BANCO FINTERRA, S.A., INSTITUCIÓN DE BANCA MÚLTIPLE	BANCO FINTERRA	R
155	INDUSTRIAL AND COMMERCIAL BANK OF CHINA MÉXICO, S.A.	ICBC	R
156	BANCO SADABELL	SADABELL	R
157	BANCO SHINHAN DE MEXICO, S.A, INSTITUCION DE BANCA	SHINHAN	R
158	MIZUHO BANK MÉXICO, S.A.	MIZUHO BANK	R
159	BANCO OF CHINA MEXICO, S.A. INSTITUCIÓN DE BANCA MÚLTIPLE	BANK OF CHINA	R
160	BANCO S3 MEXICO, S.A., INSTITUCION DE BANCA MULTIPLE	BANCO S3	R
600	MONEX CASA DE BOLSA, S.A. DE C.V.	MONEXCB	RC
601	GBM GRUPO BURSÁTIL MEXICANO, S.A.	GBM	RC
602	MASARI CASA DE BOLSA, S.A.	MASARI	RC
605	VALUE, S.A. DE C.V., CASA DE BOLSA	VALUE	RC
608	VECTOR CASA DE BOLSA, S.A. DE C.V.	VECTOR	RC
613	CASA DE BOLSA BASE< S.A. DE C.V.	MULTIVA CBOLSA	RC
616	CASA DE BOLSA FINAMEX, S.A. DE C.V.	FINAMEX	RC
617	VALORES MEXICANOS CASA DE BOLSA, S.A. DE C.V.	VALMEX	RC
620	PROFUTURO G.N.P., S.A. DE C.V.	PROFUTURO	RC
630	INTERCAM CASA DE BOLSA, S.A. DE C.V.	CB INTERCAM	RC
631	CI CASA DE BOLSA, S.A. DE C.V.	CI BOLSA	RC
634	FINCOMÚN, SERVICIOS FINANCIEROS COMUNITARIOS, S.A. DE C.V.	FINCOMUN	RC
638	NU MÉXICO FINANCIERA, S.A. DE C.V., S.F.P.	AKALA	RC
646	SISTEMA DE TRANSFERENCIAS Y PAGOS STP, S.A. DE C.V., SOFOM E.N.R.	STP	RC
652	SOLUCIÓN ASEA, S.A. DE C.V.,	ASEA	RC
653	KUSPIT CASA DE BOLSA, S.A. DE C.V.	KUSPIT	RC
656	UNAGRA, S.A. DE C.V.	UNAGRA	RC
659	OPCIONES EMPRESARIALES DEL NORESTE, S.A. DE C.V., S.F.P.	ASP INTEGRA OPC	RC
661	SERVICIOS FINANCIEROS ALTERNATIVOS, S.A. DE C.V., S.F.P. KLAR TECHNOLOGIES, S.A. DE C.V. S.F.P.	ALTERNATIVOS KLAR	RC
670	LIBERTAD SERVICIOS FINANCIEROS, S.A. DE C.V., S.F.P.	LIBERTAD	RC
677	CAJA POPULAR MEXICANA, S.C. DE A.P. DE R.L. DE C.V.	CAJA POP MEXICA	RC
680	CAJA POPULAR CRISTÓBAL COLÓN, S.C. DE R.L. DE C.V.	CRISTOBAL COLON	RC
683	CAJA DE AHORRO DE LOS TELEFONISTAS, S.C. DE A.P. DE R.L. DE C.V.	CAJA TELMEX	RC
684	OPERADORA DE PAGOS MOVILES DE MEXICO, S.A. DE C.V.	TRANSFER	RC
685	FONDO DE GARANTÍA Y FOMENTO PARA LA AGRICULTURA, GANADERÍA Y AVICULTURA	FONDO (FIRA)	RC
688	CREDICLUB, S.A. DE C.V., S.F.P.	CREDICLUB	RC

689	FONDO MEXICANO DEL PETRÓLEO PARA LA ESTABILIZACIÓN Y EL DESARROLLO	FOMPED	RC
699	FONDEA TECHNOLOGIES, S.A. DE C.V, S.F.P.	FONDEADORA	R
703	TESORED, S.A. DE C.V.	TESORED	RC
706	ARCUS F.I., S.A. DE C.V.	ARCUS	RC
710	ELECTRÓNICO	NVIO	RC
723	CUENCA TECHNOLOGIA FINANCIERA, S.A. DE C.V., INSTITUCION DE FONDOS DE PAGO ELECTRONICO	CUENCA	RC

Appendix H: FedGlobal ACH Payments Panama Service

Bank Numbers for RDFIs

Institution Name	Identification Number
001 - BANCO NACIONAL	000000013
002 - BANISTMO	000000026
003 - CITIBANK	000000039
007 - BANCO GENERAL	000000071
018 - DAVIVIENDA	000000181
037 - MULTIBANK	000000372
040 - TOWERBANK	000000408
042 - SCOTIABANK	000000424
051 - BICSA	000000518
071- COOPERATIVA PROFESIONALES	000000712
077 - CAJA DE AHORROS	000000770
091 - PACIFIC BANK	000000916
106 - METROBANK	000001067
108 - BANCO ALIADO	000001083
110 - CREDICORP BANK	000001106
115 - GLOBAL BANK	000001151
116 - BANK OF CHINA	000001164
125 - CANAL BANK	000001258
138 - BAC INTL. BANK	000001384
139 - BCT BANK	000001397
147 - MMG BANK	000001478
149 - ST GEORGES BANK	000001494
150 - BANCO AZTECA	000001504
151 - BCO PICHINCHA PMA	000001517
156 - BANCO DELTA	000001562
157 - BANCO LAFISE	000001575
158 - BANESCO	000001588
159 - CAPITAL BANK	000001591
161 - BANISI	000001614
163 - MERCANTIL BANK	000001630
165 - BBP BANK	000001656
167 - PRIVAL BANK	000001672
169 - BANCO LA HIPOTECARIA	000001698
170 - UNI BANK	000001708
172 - BANCO FICOHSA	000001724
175 - BANCOLOMBIA	000001753
178 - BIBANK PANAMA	000001782
180 - ATLAS BANK	000000180
250 – COOPEDUC	000002503
251 – COOESAN	000002516
252 - CACECHI	000002529
253 - COEDUCO	000002532
254 – COOPEVE	000002545
500 – COOPERATIVA CRISTOBAL	000005005
501 – COOPERATIVA EDIOACC	000005018
502 – COOPERATIVA ECASESO	000005021

503 – COOPRAC	000005034
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