

Loughnane Associates LLC

Value Touches Everything

Learning Objectives:

TLO. Describe the processes in which money actually moves around the world and the information available to support investigations.

ELO 1	Explain the Real Time Gross Transfer Systems.
ELO 2	Explain the Automatic Clearing House process.
ELO 3	Describe the contents in Fedwire transfer and messaging.
ELO 4	Describe the contents in ACH transfers and processes.
ELO 5	Explain the SWIFT messaging process.
ELO 6	Describe the contents of SWIFT messaging.

Training Purposes Only



Financial Transfers Process for Banks, Businesses, and Government

- Transactions can be time-critical
- Supports same-day, instantaneous, or within acceptable periods
- Must be accurate with no room for error
- Needs to deal with international currencies and time zones
- Can be leveraged by illicit actors

These payment systems leave footprints for us to follow

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The Value of Financial Information

- The information contained is not under the control of suspect parties and cannot be further manipulated.
- The systems are controlled by third parties, and they can be monitored live or otherwise accessed by legal means.
- The systems MUST contain accurate information or else transactions can fail.



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- 1. Value touches everything
- 2. Money does not move without a purpose
- 3. Financial systems must contain accurate data

If all you get is a bank statement and the deposits and withdrawals you are really missing the boat.





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Role of Real Time Gross Transfer Systems and Clearing Houses

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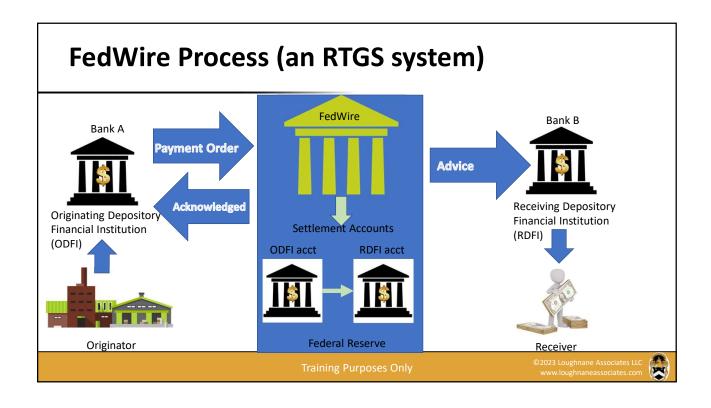


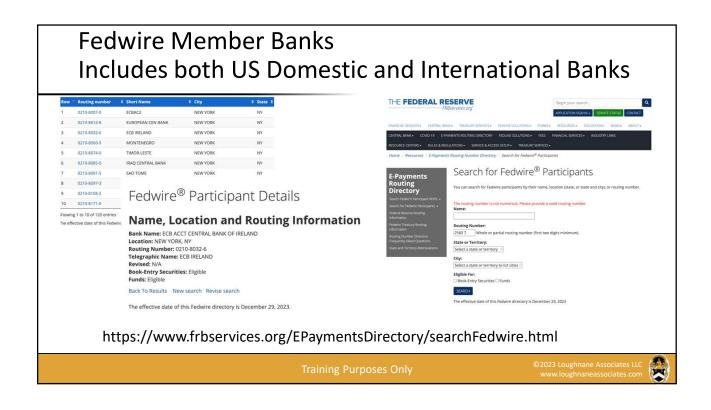
Financial Institution Payment Systems

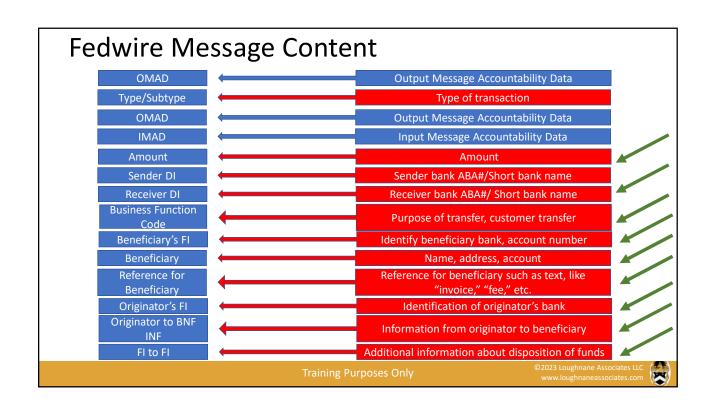
- Real time gross transfer systems (RTGS)
- Each transaction is handled separately
- Transactions are one-way and difficult to reverse
- Process is a credit transfer system between members
- The process is expensive, so usually used for large amounts or time-critical transactions

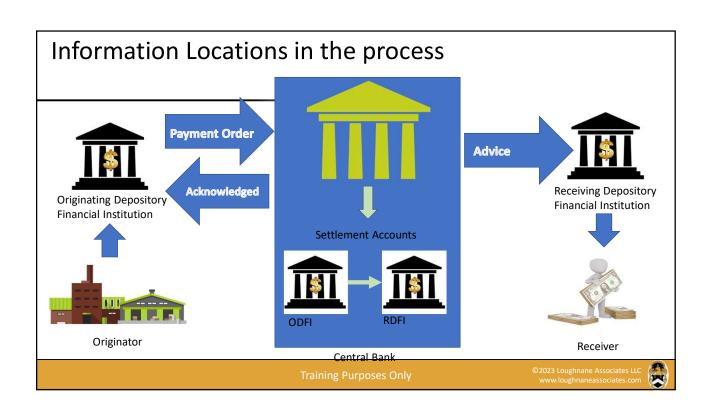
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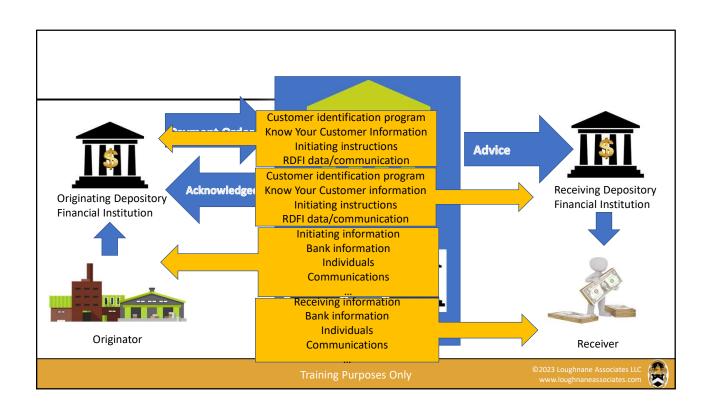


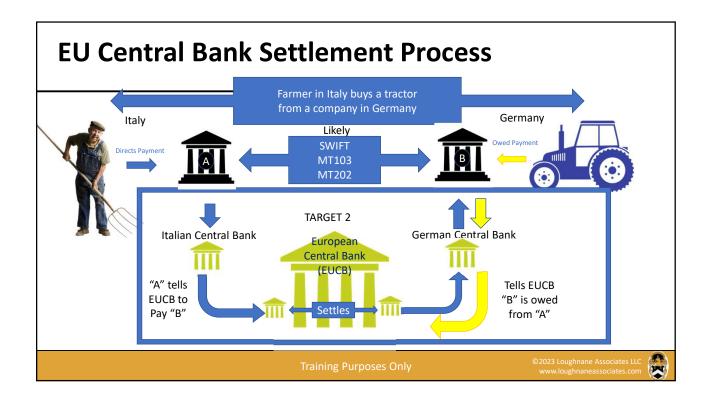












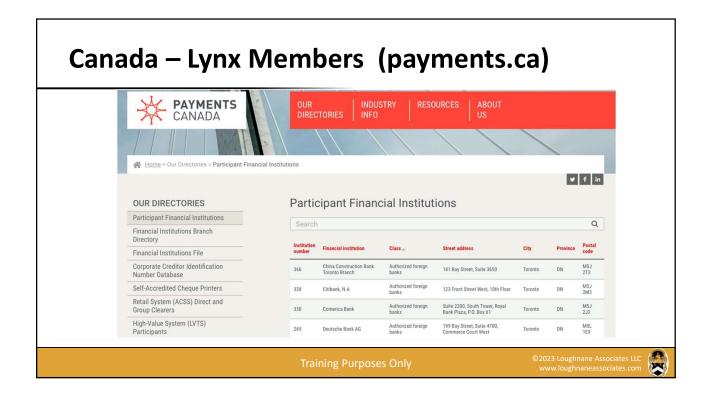
Canada – Lynx (as of 30 August 2021)

- Settlements take place in member accounts with the Bank of Canada at the end of each day
- Uses SWIFT messaging
- Payments in Canadian dollars across the country between FIs
- Members connect via Canadian Payments Association Services Network - owned by Payments Canada (payments.ca)
- Funds are credited in "near real-time"

Owned and Operated by Payments Canada

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Automated Clearing House (ACH) Systems

- FedACH and Clearing House Interbank Payments System (CHIPS) are Electronic Payments Networks (EPN)
- Receive ACH files about payments from ODFIs
- Edit and sort payments, and deliver the payments to RDFIs and settle the payments by crediting and debiting the depository financial institutions' settlement accounts
- Business-to-Business payments exchange both data and funds with trading partners, facilitating an automated process of updating their accounts receivable and accounts payable systems

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Clearing House

Clearing House Interbank Payments System (CHIPS)

- System in the United States
- Like Fedwire, provides a real-time final settlement system
- Provides transmission and settlements services

BANK OF AMERICA

X Citizens Bank

(A) Huntington

A REGIONS

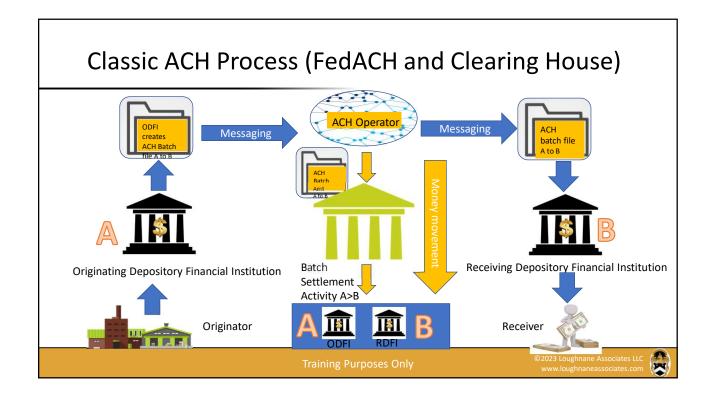
• Unlike Fedwire, CHIPS owned by the financial institutions that use it:

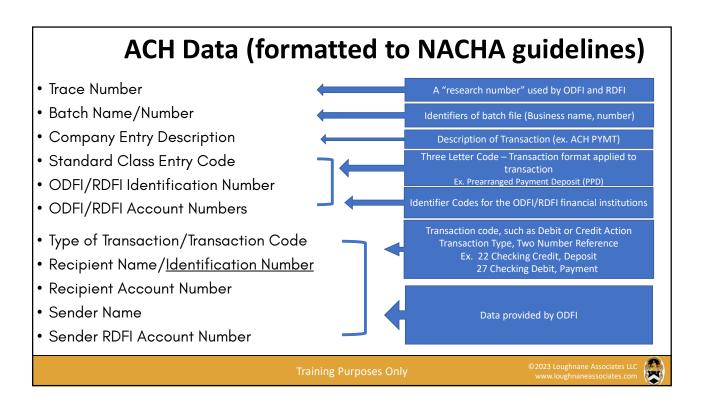


- 90% of US dollar funds transfers moving transnationally
- Recent figures reveal an approximate average of 280,000 transactions per day with a total monetary value of \$1.4 trillion (Fundamentals of the Funds Transfer Process. (unk). U.S.

Department of the Treasury Financial Crimes Enforcement Network.







New: FedNow (Launched in July 2023)

- Currently over 300 participants
- Allows financial institutions of every size across the U.S. to provide safe and efficient instant payment services.
- Through participating financial institutions businesses and individuals can send and receive instant payments in real time, around the clock, every day of the year.
- Financial institutions and their service providers can use the service to provide innovative instant payment services to customers, and recipients will have full access to funds immediately,



HOW THE FEDNOW™ SERVICE WILL WORK

THE FEDERAL RESERVE

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New: Real-Time Payments (Clearing House)

"RTP" from The Clearing House is a real-time payments platform that all federally insured U.S. depository institutions are eligible to use for payments innovation.

- ✓ Car Sales and Auto Lending
- ✓ Consumer Loans
- ✓ Corporate Credit Cards
- ✓ Digital Wallets
- ✓ Earned Wage Access
- ✓ Merchant Funding
- ✓ Mortgage
- ✓ Payroll
- ✓ Sports Wagering

 Speeds up commerce and streamline the payments flow

 With instant availability and payment confirmation, payment senders and receivers know exactly when the payment is received, and receivers can use funds immediately.

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SWIFT Messaging

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SWIFT – A "Virtual Messenger"

- Banks use VPN lines, email, telex, fax, or specialized messaging providers, such as SWIFT
- SWIFT is an electronic process use to communicate financial and business information between banks
- Banks exchange instructions, confirmations, and reports



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Why SWIFT?

- If two banks don't have direct relations between themselves, perhaps through intermediary banks or correspondent accounts
- There can be as many as four (or more) banks in a single transfer
- Any given transfer relies on the banks concerned exchanging information

SWIFT CTF Policy

- "SWIFT is global, thus SWIFT users around the world are not subject
 to a single set of rules, but to a variety of different compliance rules –
 such as those that might relate to illicit and terrorist financing."
- SWIFT does not monitor or control the messages going through system
- Legitimacy rests with the Financial Institutions
- "...effectively acting as a secure postman..."
- KYC, AML and CTF responsibilities rest with the banks

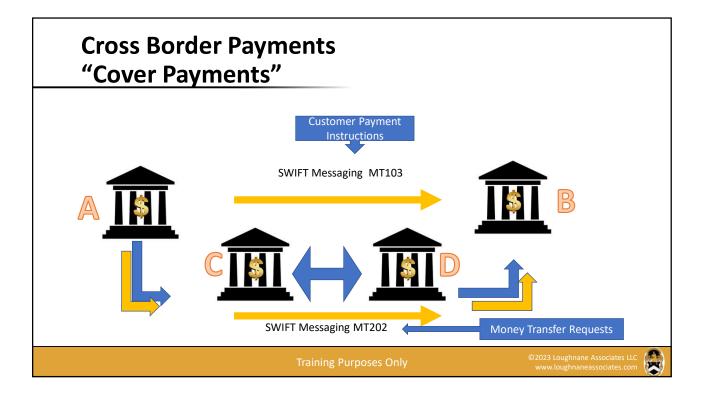
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Illicit Finance Focus

- 1. Remain in compliance with internal policy and rules
- 2. Assist system users with support needed for their own compliance
 - Setting messaging standards
 - Sanctions Screening system
 - (Transaction Screening, Name Screening, Sanctions Testing)
- 3. Modified Cover Payment message processes for information sharing
- 4. Ordering and Beneficiary Information is embedded in messages





Law Enforcement Requests To SWIFT (EU-US TFTP Agreement)

- SWIFT will not disclose to any third party without customer permission
- US Law Enforcement Requests are processed through the OFAC Terrorist Finance Tracking Program (TFTP)
- SWIFT is required to provide only data the Treasury Department believes will be necessary in combating terrorist financing, based on past analyses focusing on message types and geography, as well as perceived threats and vulnerabilities

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SWIFT Subpoenas Must Be Detailed

- Additionally, searches are narrowly tailored to minimize the extraction of messages that are not relevant to a terrorism investigation
- The data provided by SWIFT are searched to extract only information that is related to an identified, preexisting terrorism investigation
- This means that every search that is conducted must specifically cite and record documented evidence supporting the belief that the target is connected with terrorism or its financing

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SWIFT BIC Codes

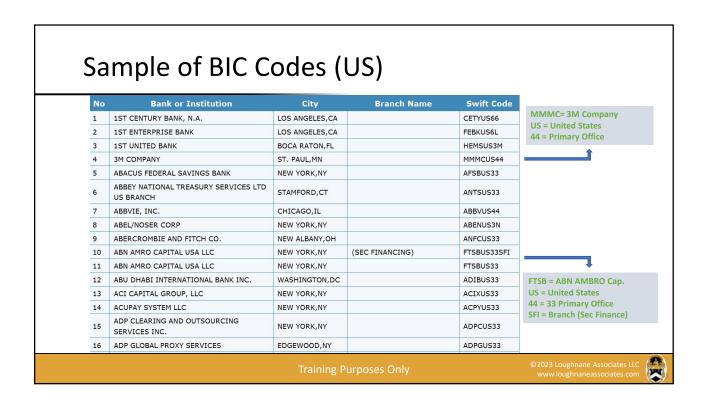
- The standard format of Business Identifier Codes (BIC)
- It is a unique identification code for a particular bank
- BIC codes are used for messaging between FIs
- The SWIFT code consists of 8 or 11 characters:
 - "BIC-8" refers to 8-digit code for the FI's primary office
 - "BIC-11" is an 11-digit code points to a specific branch



http://www.theswiftcodes.com/countries/

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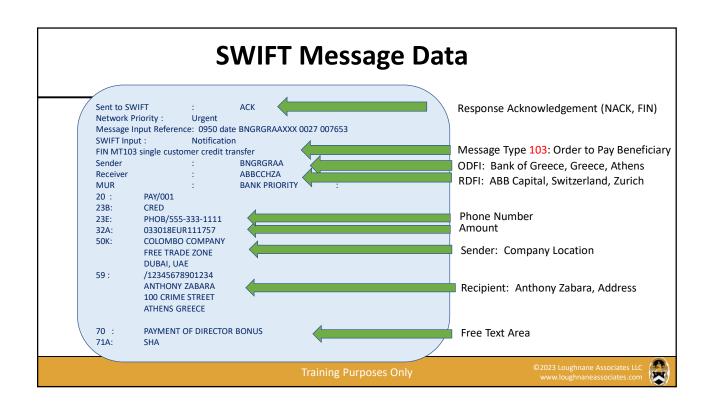
SWIFT Message Types (MT)

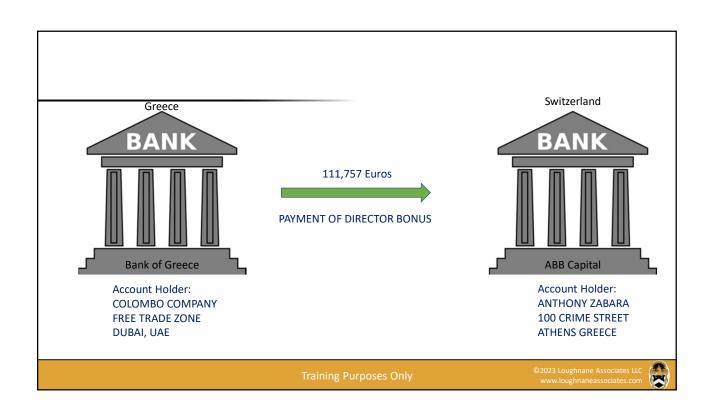
10 major categories of SWIFT messages that support processing activities of members:

Category	Name
0xx	General Information
1xx	Customer Payments and checks
2xx	Financial Institutions Transfers
3xx	Financial Trading (FX, Loans, SWAPS, etc.)
4xx	Collections and Cash Letters
5xx	Financial Trading (Securities)
6xx	Precious Metals Trading and Syndications
7xx	Documentary Credits and Guarantees
8xx	Traveler's Checks
9xx	Cash Management and Customer Status

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Communication Scenario

We are investigating the payment of 25,000 euros from Agrosoyuz Commercial Bank, Moscow, to the account of John Sidano located at the **Sample Bank** in Addis Ababa, Ethiopia.

> The payment is described as a retainer for services. Let's work through the SWIFT MT103.



1650201 AGROSOYUZ COMMERCIAL BANK 1378012 AGSZRU33 (RUSSIA) MESSAGE 67L WUL 1421 1147 A175064 AGSZRU33 A15000128 SAMPLE BANK A15000128 SBETETAA (ETHIOPIA)

SENDER AGROSOYUZ COMMERCIAL BANK

TAUNUSANLAGE-12 60325 MOSCOW, RUSSIA

SWIFT CODE: AGSZRU33

SAMPLE BANK RECEIVER

ADDIS ABABA, ETRIOPIA SWIFT CODE: SBETETAA

LOGICAL TERMINAL

FUNT PERM 21 SINGLE CUSTOMER TRANSFER ATTENTION: MANAGER MBT 100 EURO 300 SOLDEST XXXX9900430UA DE047SOLDEST XXXX AGROSOYUZ CB

INTERNATIONAL BANK OF SETTLEMENT BASIC HEADER APPLICATION HEADER BANK PRIORITY WORLD BANK RATING (133) COUNTRY RATING (051) USER REFERENCE (018) USER HEADER

20: MARK 2010 PAYMENT

RELATED REFERENCE 21: AGROSOYUZ CB /IRO/FOD/DE0887014326

Classroom use -

Representative



043187+ + 1650201 AGROSOYUZ COMMERCIAL BANK 1378012 AGSZRU33 (RUSSIA) MESSAGE 67L WUL 1421 1147 A175064 AGSZRU33 A15000128 SAMPLE BANK A15000128 SBETETAA (ETHIOPIA) AGROSOYUZ COMMERCIAL BANK SENDER TAUNUSANLAGE-12 60325 MOSCOW, RUSSIA SWIFT CODE: AGSZRUSS Classroom use -RECEIVER SAMPLE BANK Representative ADDIS ABABA, ETHIOPIA SWIFT CODE: SBETETAA FUNT PERM 21 LOGICAL TERMINAL SINGLE CUSTOMER TRANSFER ATTENTION: MANAGER MBT 100 EURO 300 SOLDEST XXXX9900430UA DE047SOLDEST XXXX AGROSOYUZ CB BASIC HEADER INTERNATIONAL BANK OF SETTLEMENT BANK PRIORITY WORLD BANK RATING (133) APPLICATION HEADER COUNTRY RATING (051) USER REFERENCE (018) USER HEADER 20: MARK 2010 PAYMENT RELATED REFERENCE 21: AGROSOYUZ CB /IRO/FOD/DE0887014326

142: MT/103 (11/30/2019) MOSCOW, RUSSIA MT/DATE/ORIGIN MT103 SESSION 2010 SEQUENCE 0110 3336 EMBEDDED MESSAGE EURO 25,000.00 EUROS INITIALIZED NARRATIVE ORDERING CUSTOMER DEBIT OUR ETB ACCOUNT CURRENCY AMOUNT F030A EURO 25,000.00 (Twwenty Five Thousand Euros) BANKS HAME AGROSOYUZ COMMERCIAL BANK, MOSCOW, RUSSIA BANK ADDRESS TAUNUSANLAGE-12 60325 MOSCOW, MAIN OFFICE F032A ORDERING CUSTOMER FO33A FOREIGN TRADE BANK (on behalf of Dandong ZhongShen InduStIy) ACCOUNT NUMBER 30450434 F050K VAT ID NO. ET114107751 F051K SWIFT CODE AGSZRU33 SORT CODE 300 900 10 IBAN NO. חקיד F056A: 2019 1A AT 103M910 BANK NAME F057A: SAMPLE BANK BANK ADDRESS F058A: ADDIS ABABA, ETHIOPIA BENEFICIARY F059A: JOHN SIDANO PERSONAL ACCOUNT ACCOUNT NUMBER F059B: 2848334 SWIFT CODE SBETETAA

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ORDERING CUSTOMERS MESSAGE

WE, AGROSOYUZ COMMERCIAL BANK SITUATED AT MOSCOW, RUSSIA, WITH FULL BANKING RESPONSABILITY HEREBY PRESENT OUR IRREVOCABLE, TRANSFERBLE AND CALLABLE CASH BACKED STANDING SWIFT WIRE TRANSFER IN FAVOR OF JOHN SIDANO PERSONAL ACCOUNT ACCOUNT NUMBER 2848334 IN AMOUNT OF EUR EURO 25,000.00 (Twenty Five ThouSand EuloS) THIS PAYMENT IS FOR A-RETAINER-FOR-SERVICES-AGREEMENT-DATED-11/30/2019-FOR Dandong ZhongShen InduStly...

WE HEREBY CONFIRM THAT THE FUNDS ARE GOOD, CLEAN, CLEARED FROM ANY CRIMINAL ORIGIN AND ARE FROM LEGAL SOURCE.

THIS IRREVOCABLE SWIFT IS BINDING FULLY PERFORMED DUE BILL AND IMMEDIATELY CALLABLE FOR CASH PAYMENT, WE CONFIRM THAT PAYMENT SHOULD BE RELEASED.

THIS IS AN OPERATIVE INSTRUMENT FOR AND ON BEHALF OF AGROSOYUZ COMMERCIAL BANK SUBJECT TO THE INTERNATIONAL REMITTANCE REGULATION OF AGROSOYUZ COMMERCIAL BANK TO EXTERNAL BANK ACCOUNT PAYMENT. PLEASE ADVICE BENEFICIARY OF FUND TRANSFER IN THE AMOUNT OF EUR EURO 25,000.00 (Twwenty Five Thousand) EUROS.

RECORD INFORMATION SWIFT ORDER IS MAC: (PAC) PEC ENC) CHK) (INT) (PED) (MAC).

FOR AND ON BEHALF OF: AGROSOYUZ COMMERCIAL BANK

AUTHORIZED OFFICER VLADIMIR PUTON 02267C.F.O CHIEF FINANCIAL OFFICER 1650201

AGROSOYUZ COMMERCIAL BANK

AUTHOFIZED OFFICER SOFIA BROMOVICE 78456C. A O

CHIEF OPERATING OFFICER

CONF: DATE: 11/30/2019 TIME: 12:37 *** AGROSOYUZ COMMERCIAL BANK 049882++MSG: 111 TITTLE

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