Title:

of Data Communication Network & SWIFT Application

1. What is the purpose of this activity? (Explain in 3-4 lines)

The purpose of this activity is to; -

Understand what are SWIFT WORKING GUIDELINES decided by Ministry of Home Affaiss, India.

What are security-standards for SWIFT Transactions by Banks?

LOT How SWIFT Algorithm works (as it has Mose than 10,000 banks associated with it & - " - 200 countries as its members?

Ld7 What was BEFORE SWIFT & AFTER SWIFT alternatives?

Issues arising | facing by SWIFT Community Members?

2. Step performed in this activity (Explain in 5 – 6 lines)

Steps performed in this communication via SWIFF are as follows; Scenario 2: Both Banks don't have a direct

SCENARIO !: Both Banks Have a Direct Commuscial Relationship via a Nostro/Vostro A/C

SWIFT mexage issued by Bank of America will be directly addressed to DBS Hongkong & the funds are transferred directly between the two Banks!

bly 1: BOA BEEXT own USI client's Bank A/C by USD 15K

Step 2: BOA CREDIT USD L5k to 9th Nostro A/c Opened with 1 DBS Hongkong

Sty3: DBS Hong Kong DEBIT USD LOK from BOA Nosho A/C/

Stup4: DBS Hongkong eredit USD 15k to own Bank A/C, minus any fees charged for the

transfer.

As banks DON'T Have a direct commercial relationship, SWIFT will determine how to pass the SWIFT mersage to successive Banks which all have Nostro Vostro A/c's with one another Step 1: BOA DEBIT own Us client's BankAlc by

commercial relationship (i.e. No NOSTRO/VOSTRO)

Step 2: BOA CREDIT SISK to PR Nostro A/C opened

Step 3: Deletsche Bank DEBIT \$15K from BOA Nosto

Deutsche Pank DEDUCT (the fee (fortranse)) & CREDIT the balance i.e. \$ 14,920 to Tk Nostro MC.

steps: DBS HongKong DEBIT USD 14,980 from Deutsche Banks Note

1 Step 6: DPS RongKong CREDIT & 16920 to our Bank (Afc, minus any fees charged for the transfer. 13

WHAT is SWIFT?

SWIFT BE a mersaging network that financial institutions use to securely transmit information & instructions through a strandarized system of codes.

SWIFT - It stands for <u>Society for Worldwide Interbank Financial Telecommunications</u> Il is member-owned co-operative that provides safe & secure Financial Transactions. for the members.

WHY SWIFT SYSTEM WAS CREATED?

It was created to help banks communicate faster and more securely among thamselves in relation to the processing of international payments. . It simply acts as MESSENGER between banks.

HOW DOES SWIFT WORK?

SWIFT works by assigning each member institution a UNIQUE ID CODE that identifies not only the bank Name country, city and branch SWIFT dissigns each a unique CODE that Has either 8 financial osganizati of 11 characters. 8 or 11 characters, made up of:

EXAMPLE:

·1 alpha-2 country code (letters only)

YBBCC'D

Location code (letters and numbers)

> Branch code is optional (letters and numbers)

BEFORE SWIFT WHAT WAS THERE IN THE WO

Prior to Swift, Telex was the only available means of message confirmation for international funds transfer.

L. PROBLEMS Associated with Telex: It was hampered by low speeds security eoncesis, a free-message foremat in other woods.

Ly It didn't have any unified system of codes like SWIFT to name banks & desvibe transactions. Telex senders Have to describe every transaction in sentences which were then interpreted & executed by the receiver.

3. What resources / materials / equipments / to	ols did you use for th	nis activity ?
Belower Cis-India org / internet -	5. Tools: Lapla	P1 Deektop-Pc
1. Resources / materials / org / internet - 1. Resources: cis-India. org / internet - governance / resources/ security-standards - for- the - financial - technology 3.	_	lows LO(OS) The Web Browle
the - financial - technology		e Internet Connection
3.	8.	
4.	0.	
	•	
4. What skills did you acquire? 1. what one applications of Data Communications of Banking?	Na. What Before	SWIFT? How Internations Takes Place?
2. WENH abt SWIFT Bystem.	6. Realworld Total	nsaction Scenario example on via 2-Bahks: > BOA TO 8. L. DBS Haykon Tho Account? Deutsche Bai
3. SWIFT VS S Many other competitors	7. Vohat are vost	to Account? Deutsche Ba
4. How SWIFT works? (Algo behind it)	8. Which Banks	uses eWIFT?
5. Time taken to complete the activity ?	02:00	(hours)

John Janes J

Signature of Student

WHICH BANKS USE SWIFT?

More than 10,000 financial institutions in more than 200 countries are members of the BWIFT network, making it the largest international payment network worldwide.

Below are the REAL WORLD SWIFT Codes: of multiple International Banks:

DBS !- DHBKHKHH

HSBC :- HSBCHKHHHKH

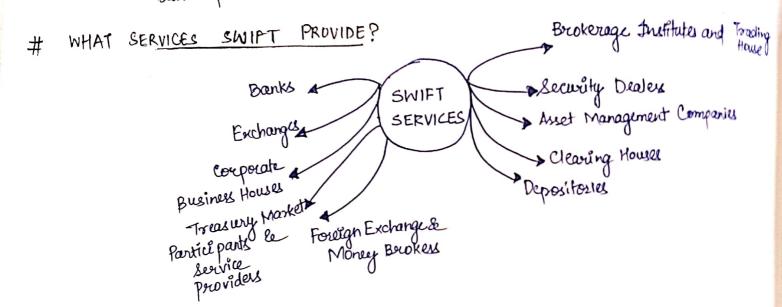
Hang Song Bank :- HASE HKHH

Standard Chartered: - SCBLHKHH

. Bank of China: - BKCHLIKHH

ICBC :- UBHK. HKHH

Bank of East Asia: - BEASHKHH



HOW SWIFT WORKS?

- It was a system of codes to detail where as transfer is coming from; where it's going & how it will to get there. These strings of alphanumeric identifiers comprise an institution code, a country code, a location code & a branch code.
- this worth reiteraling that because SWIFT doesn't actually send money institutions that use the Network also Need Banking relationships to move funds.
- DEDICATED SWIFT Interfoce (a computer-band On-premises. Users can leg in to those terminals to manually enter messages. Messages can also be auto-generated by the Institution's computer between and passed on to the terminal.

 The terminal that bends the Swift messages to the regional processors in the lenders to the regional processors in the lenders country. The terminals only connect with Processors through heasethine, distinct public data Network connections.

I, From There, the regional processor checks, stores & forwards the data to its operating center, which passes the message on the processor in the receipents country, rent processor delivers the message to the receiver's terminal & then sends confirmation. That processor delivers the message to the receiver's terminal & then sends confirmation. I Officiall at the respective financial institutions are supposed to audit these to Prevent Fraud.

WHAT CUSTOMER SHOULD AWARE ABOUT WHEN PERFORMING SWIFT TRANSACTION IN A SWIFT Transfer can be Time-Consuming Dometimes for Example: 3 Days L. of you have made the Transfer in two different currency than your bank might change you with not so friendly exchange hate 8 make a handsome profit for the same change you with not so friendly exchange hate 8 make a handsome profit for the same.

Ly fee is often leived by Intermediary Banks also.

