# S/4 Hana: Automate All your Exchange Rates with Standard Functionality

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SAPinsider Las Vegas

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#### In This Session

 We will see why it is important to update daily the Exchange Rates

 We will see how to fully automate this task with standard SAP functionality

 We will see the basic steps in customizing for this

 We will analyze what you should consider to implement this functionality

 We will explain how this functionality works from the technical side

#### **What We'll Cover**

- TBD4 transaction functionalities
- Customizing
- Execution example
- Technical settings
- Wrap-Up

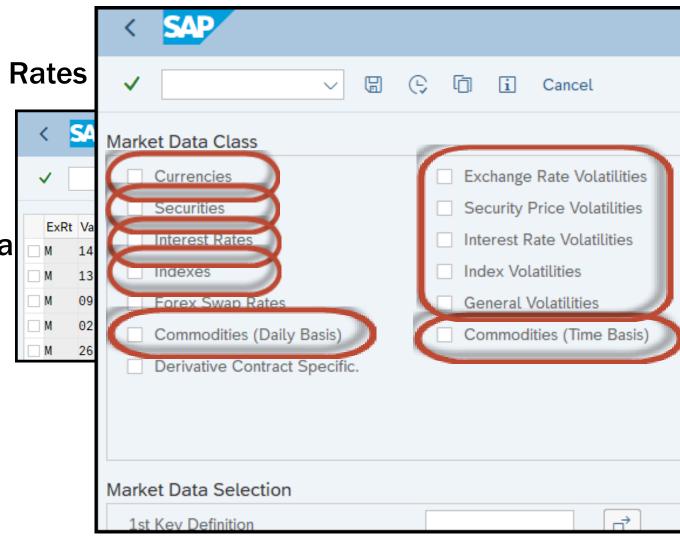


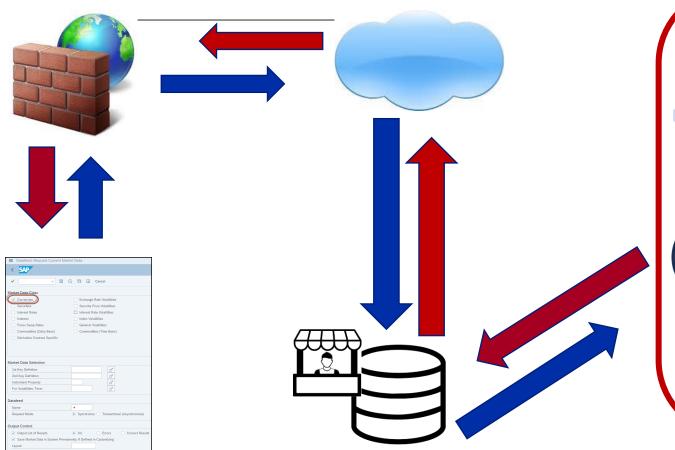
# **Topic 1**

**TBD4** Transaction Functionalities



- Importance of having updated Exchange Rates
  - Ways of entering FX rates:
    - Manual way: OB08 transaction
    - Automated way: TBD4 transaction
- TBD4 transaction can update Automatica
  - Exchange Rates
  - Securities
  - Interest Rates
  - Indexes
  - Commodities
  - Several Volatilities
  - Etc.

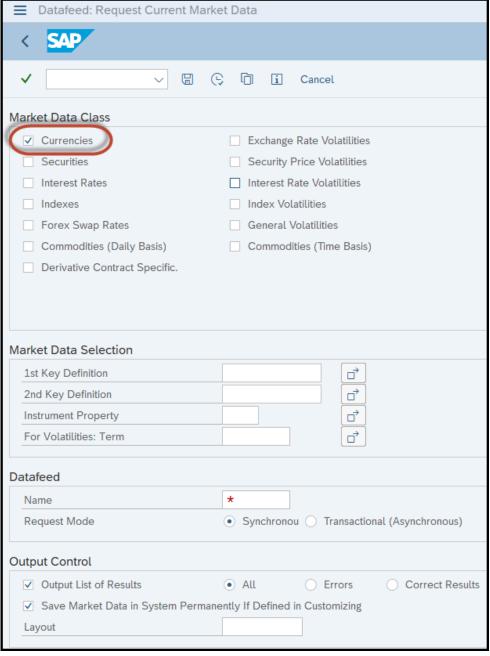


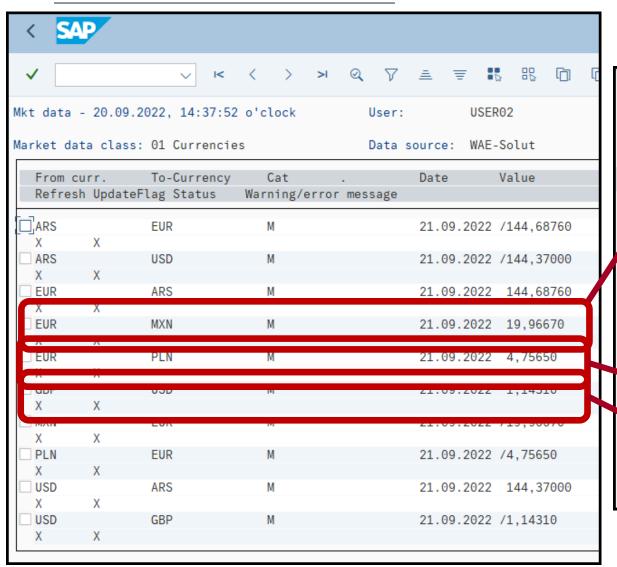


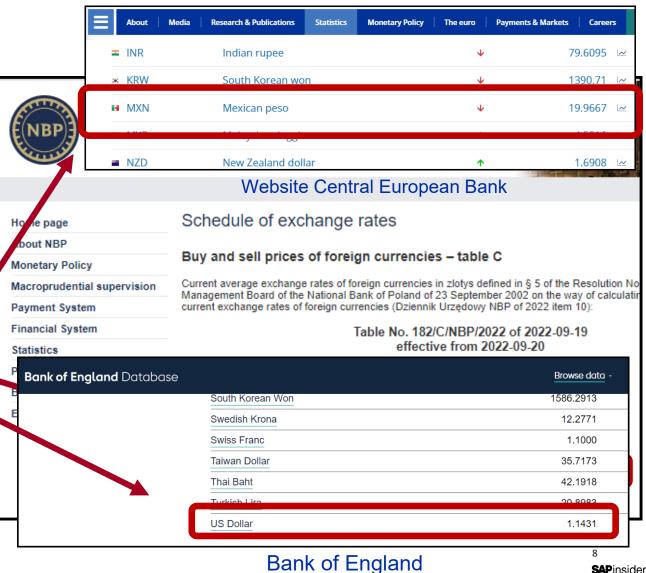


Job for the TBD4 transaction is being executed Automatically and connects to the internet TBD4 transaction looks for the specific exchange rates at vendor's database Vendor's database contains the values from the different sources for every currency TBD4 transaction populares automatically the TCURR table in your SAP system

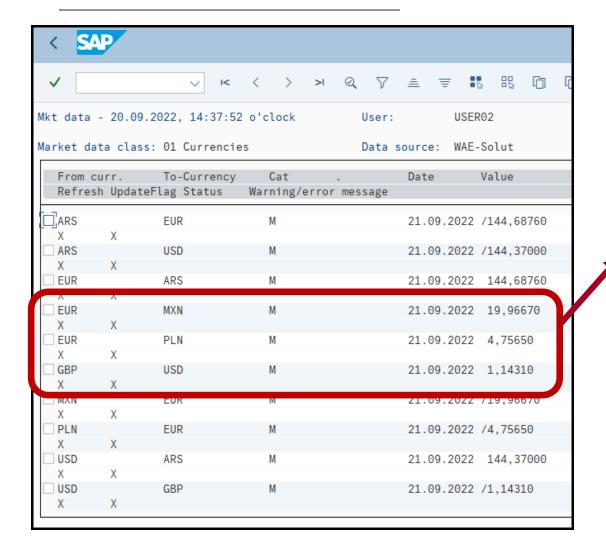
- Automatically executable by job programmed from SAP for transaction TBD4 (standard transaction)
- Connection time determined by the user
- Standard customizing for the determination of currencies to be processed (Exchange rate type, direct or indirect quotation)

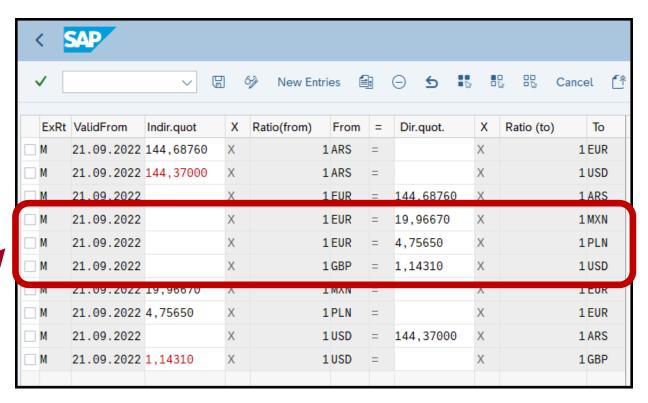






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Same Rates in the OB08 Transaction

# **Topic 2**

Customizing



# **Customizing**

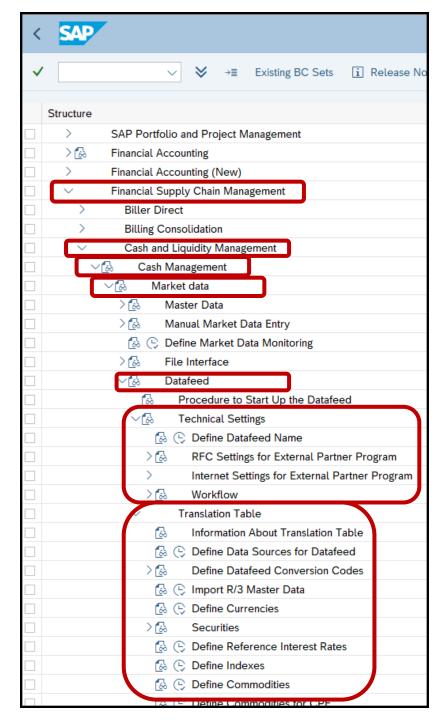
- Very short time (less than 1 hour)
- Prepare first a list of the currencies-combinations to update (useful for the Enduser, Consultant and Vendor)

Exchange	From	То	Indirect / Direct	Source	Instrument (To be used
Rate Type					by WAE Solutions)
M	BRL	PYG	Direct (second column in OB08)	SET Paraguay - Sale	
M	BRL	USD	Direct (second column in OB08)	Central Bank of Brazil - Sale	
M	EUR	PYG	Direct (second column in OB08)	SET Paraguay - Sale	
M	EUR	USD	Direct (second column in OB08)	Central European Bank	
M	USD	PYG	Direct (second column in OB08)	SET Paraguay - Sale	
M	ARS	CHF	Indirect (first column in OB08)	Central Bank Argentina	
M	ARS	EUR	Indirect (first column in OB08)	Central Bank Argentina	
M	ARS	GBP	Indirect (first column in OB08)	Central Bank Argentina	
M	ARS	USD	Indirect (first column in OB08)	Central Bank Argentina	
М	USD	CHF	Indirect (first column in OB08)	Swiss National Bank	
М	USD	EUR	Indirect (first column in OB08)	Central European Bank	
М	USD	GBP	Indirect (first column in OB08)	Bank of England	

Ask your vendor for a free trial

## **Customizing**

- General access to customizing:
  - Financial Supply Chain Management
  - Cash and Liquidity Management
  - Cash Management
  - Market Data
  - Datafeed
- Connections and Functions:
  - Technical Settings
- Functional Definitions:
  - Translation Table

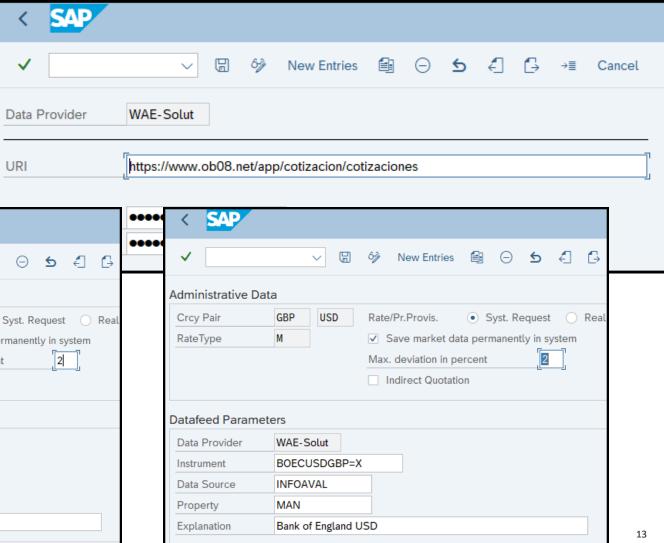


# **Customizing**

- Main Settings:
  - Connection (provided by vendor)

SAP

Currencies definition (based on Exd



# **Topic 3**

**Execution Example** 



#### **Demonstration**



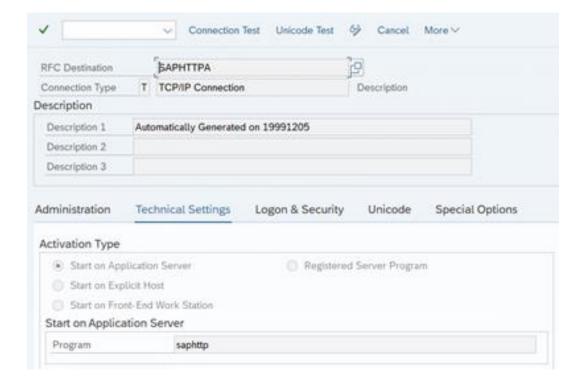
# **Topic 4**



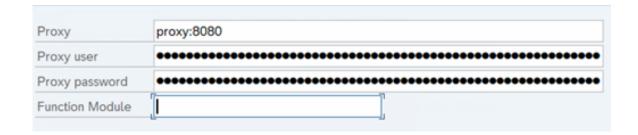
- Use of standard SAPHTTPA RFC connection
- Communication through HTTP Proxy (if necessary)
- SSL Connection from S/4 to vendor
- Middleware integration

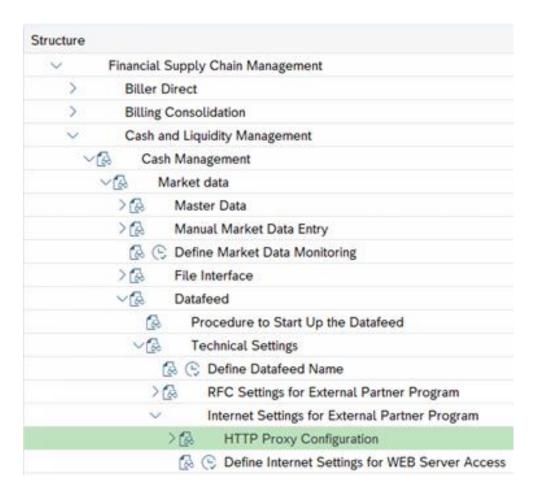
- Use of standard SAPHTTPA RFC connection
  - RFC created automatically
  - Possibility to trace execution

```
SAPHTTP Version
[Thr 860] Tue Sep 13 18:02:37 2022
[Thr 860] [4688:860] RfcListenAndDispatch() ended with key=RFC_COMMUNICATION_FAILURE and message=co
nnection closed without message (CM_NO_DATA_RECEIVED)
[Thr 860] Hint: key=RFC_COMMUNICATION_FAILURE and message=CM_NO_DATA_RECEIVED is a standard situati
on and happens when application server closes the connection.
[Thr 860] [4688] elapsed time 3788320 ms - active time 1750 ms - wait time 1016 ms
[Thr 860] [4688:860] SAPHTTP end
trc file: "dev_http", trc level: 2, release: "749"
[Thr 1680] Mon Sep 19 07:11:32 2022
[Thr 1680] [4336:1680] sccsid: @(#) SId: //bas/749_STACK/src/krn/ftp/httpnw.c#11 $ SAP
[Thr 1680] Unicode
[Thr 1680] Compiled at: Apr 11 2019 562 (PC with Windows NT)
[Thr 1680] Compiled for 64 BIT
[Thr 1680] SAPHTTP patchnumber: 700
[Thr 1680] Current working directory (location of dev_http): C:\usr\sap\EH8\D02\work
```

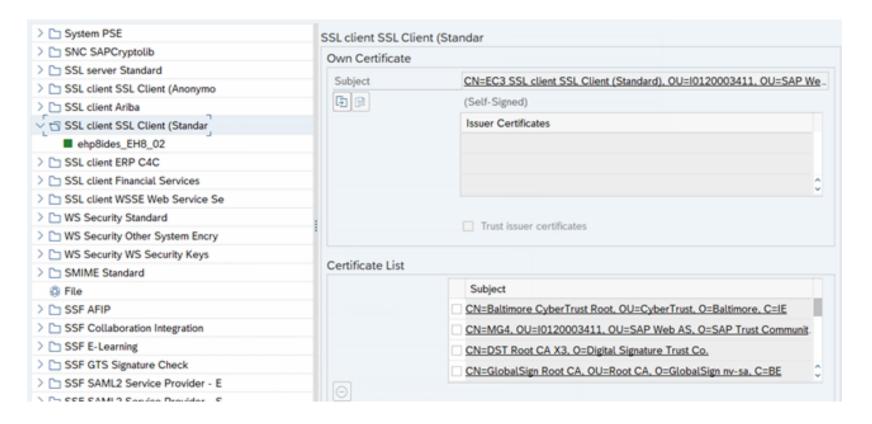


- Communication through HTTP Proxy (if necessary)
  - S/4 Standard Customizing

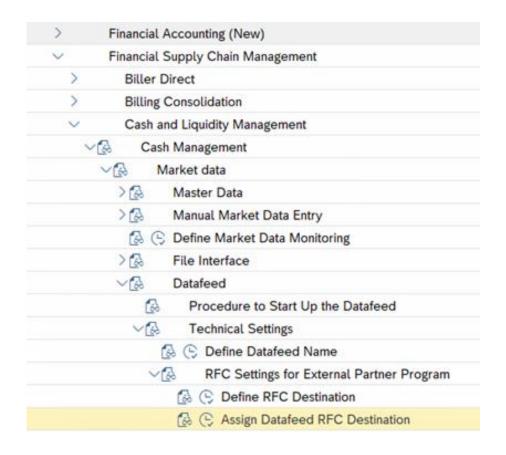




- SSL Connection from S/4 to vendor
  - STRUST to upload certificate



#### Middleware integration





# **Wrap Up**



#### **OB08 vs. TBD4**

Manual Process for 1 c	urrency (OB08)	Automatic Process for ALL currencies (TBD4)	
Activity	Estimated Time	Activity	Estimated Time
Manual access to OB08	5 seconds	Automatic Job Execution for ALL currencies	10 seconds
Access to the bank's website	5 seconds		
Find currency in the website	10 seconds		
Manual entry in OB08	10 seconds		
30 seconds / currency	y combination	10 seconds for <u>ALL</u> your currencies	

# **Summary**

Manual Process - 0B08	Automatic Process – TBD4
Values are being entered manually, 1 by 1	All values are being entered Automatically, every day
Possibility of unvoluntary errors	All available values are being populated Automatically
If Keyuser is not available, the values are not populated	Job runs every day, at the same time
There is no standard report in SAP with the specific values for one day	Automatic report with all values is being sent by e-mail, directly from SAP

# Where to Find More Information

- SAPinsider: Automate Your Foreign Exchange Rates
   https://sapinsider.org/expert-insights/automate-your-foreign-exchange-rates/
- SAP Community: Automation of Exchange Rate Feed-in SAP
   <a href="https://blogs.sap.com/2020/04/28/automation-of-exchange-rate-feed-in-sap/">https://blogs.sap.com/2020/04/28/automation-of-exchange-rate-feed-in-sap/</a>
- WAE Solutions TBD4 Overview <a href="https://www.waesolutions.com/">https://www.waesolutions.com/</a>
- WAE Solutions Customizing Document
   https://www.waesolutions.com/resources/pdf/Customizing%20for%20TBD4%20-%20WAE%20Solutions.pdf
- Additional considerations for setting up SSL on Application Server ABAP Note 510007

https://launchpad.support.sap.com/#/notes/510007

#### **Key Points to Take Home**

- Automating Exchange Rates is very easy (and fast)
- Avoid the Risk of entering the rates manually
- Be sure to have updated Exchange Rates in your SAP systems
- Write a list of all the Exchange Rates you would like to Automate
- Explore which is the best Vendor for your needs
- Ask your Vendor for a free trial (30 to 90 days) in your own SAP systems

#### **Thank you! Any Questions?**

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