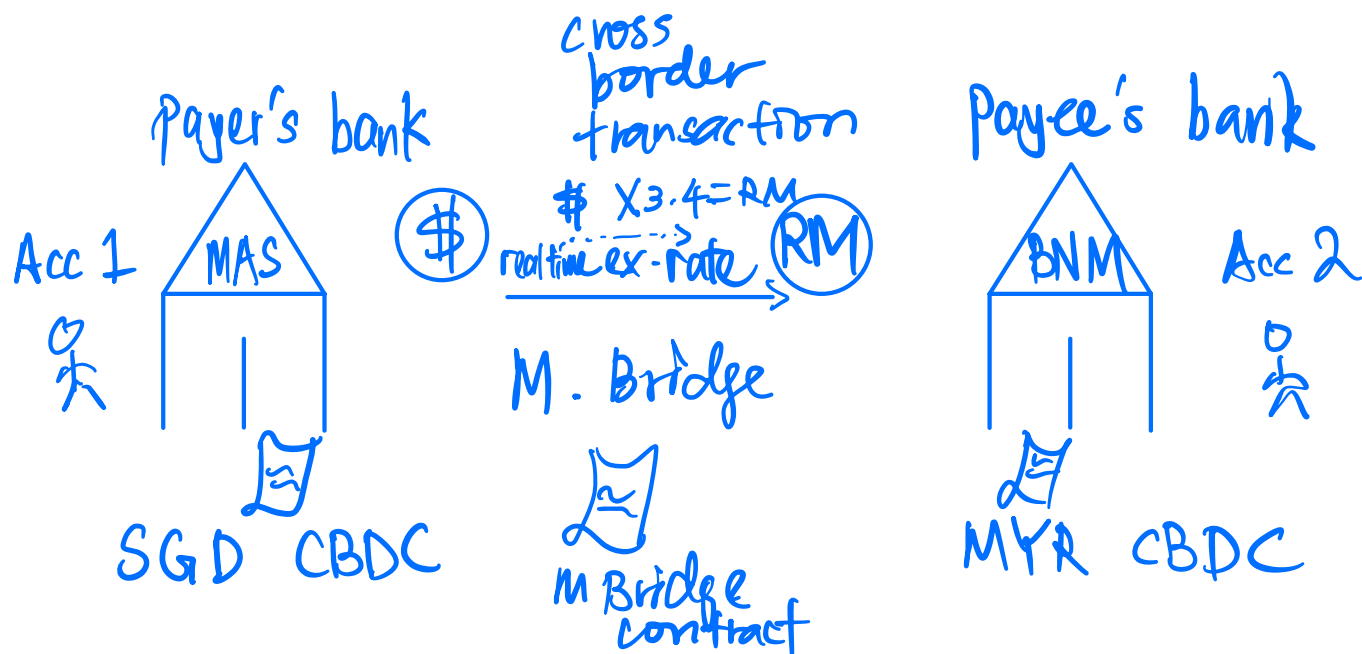


multi (bridge) Retail CBDC

assume only two countries involved.



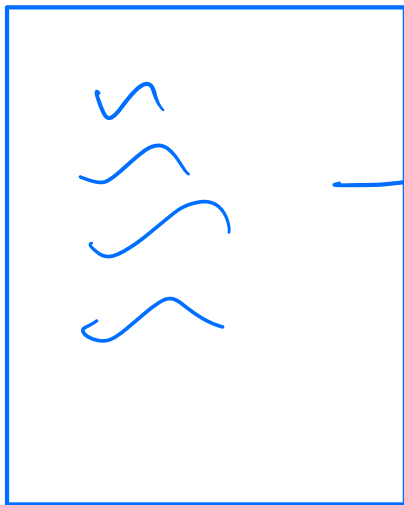
if token is not distributed by Central Bank, the token can only be called stablecoin although the value is pegged to fiat currency, else it would be so called CBDC



Contracts

SGD CBDC

swap token (cross border
remit transaction)



→ owner: MAS

↳ mint
↳ burn

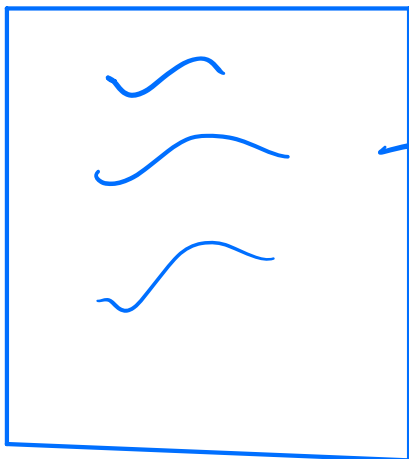
↳ transfer → local acc.

↳ balance of

↳ forward call to M Bridge

↳ listen call to M Bridge

MYR CBDC



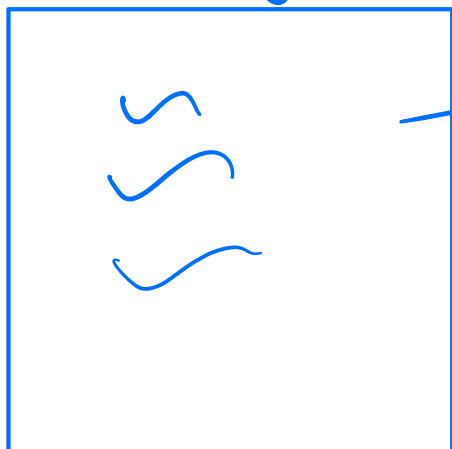
→ owner: BNM

↳ mint
↳ burn

↳ transfer → local acc.

↳ balance of

M Bridge (proxy?) ERC1155?



→ owner: MAS, BNM

rate = 0.29 ⇔ 3.44

↳ forward burn SGD CBDC

↳ forward mint

MYR CBDC x rate

or vice versa

burn ✓ → mint

transact SGD to MYR () → called by
SGD CBDC

// SGD CBDC . burn ()

// MYR CBDC . mint () → after apply rate

// MYR CBDC . transfer ()

transact MYR to SGD () → called by
MYR CBDC

// MYR CBDC . burn ()

// SGD CBDC . mint () → after apply rate

// SGD CBDC . transfer ()

wallet (check acc. in two CBDC contract)

Wallet Activity Voucher E-commerce		disconnect wallet
Acc. Details	current Balance	
<div>Username: Ah Meng Native Token 5 MATIC</div>	200 <div>DSGD ▼ DMYR</div>	Available
	<div>Pay</div> <div>Request</div>	

Activity

Wallet

Activity

Voucher

E-commerce

disconnect wallet

current Balance

200 DSGD/DMYR available

Recent Activity

Payment Subject	Type	Address	Msg	Amt
Alice	Rec.	Ox...	Fund	+600SGD
Bob	Send	Ox...	Bill	-100DSGD

Reward/Voucher use case (ERC1155)

Wallet

Activity

Voucher

E-commerce

disconnect wallet

Claimed Voucher

Details	Value	Expired in
PBM Dairy	10	5 days
PBM Elec.	200	1 day

Voucher used

Use

Use

cancel

E-commerce use case (ERC20)

Wallet

Activity

Voucher

E-commerce

disconnect wallet

Merchant XXX from Malaysia

Product A

..... \$5

Buy

Order

Product A \$5

Pay with SGD CBDC

..... Wallet Voucher