

Connecting Multiple Branches via Synchronization

Head office



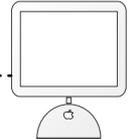
CurrencyXchanger 4D Server

static internal IP e.g. 192.168.1.100
This Server uses sync to update itself.



Master Sync Server

Local connection to the Server via
TCP/IP port 19813



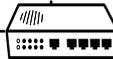
CurrencyXchanger 4D Client

Local connection to server via
TCP/IP port 19813



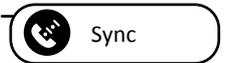
CurrencyXchanger 4D Client

External Communicating with the
server is through the
external Port 8080 forwarded to
internal IP: 192.168.1.100:8080

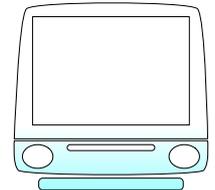


slow connection to sync server on
TCP port 8080

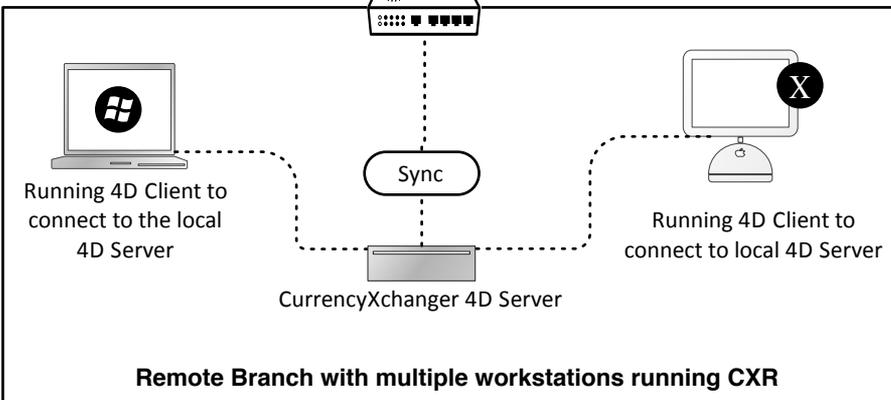
Fast connection to sync
server via TCP port 8080



Branch 2 has dialup internet



Running CurrencyXchanger
in standalone mode
Remote Branch



Pros:

- Data is decentralized across all branches
- Branches can continue working even without internet
- If the main server gets disrupted or crashes, the operation of all branches continues without a glitch
- If the main branch internet is lost, branches can still continue operation without any problems
- Works well on slow internet connection such as dialup
- Branches can work independently with their own special Currency rates
- Profit and loss for each branch can be prepared independently
- The branch managers cannot hack into the other branches accounts and view their P&L
- A more secure setup

Cons:

- Requires a sync license for each branch
- Synchronization conflicts can occur if two users in different branches edit the same record