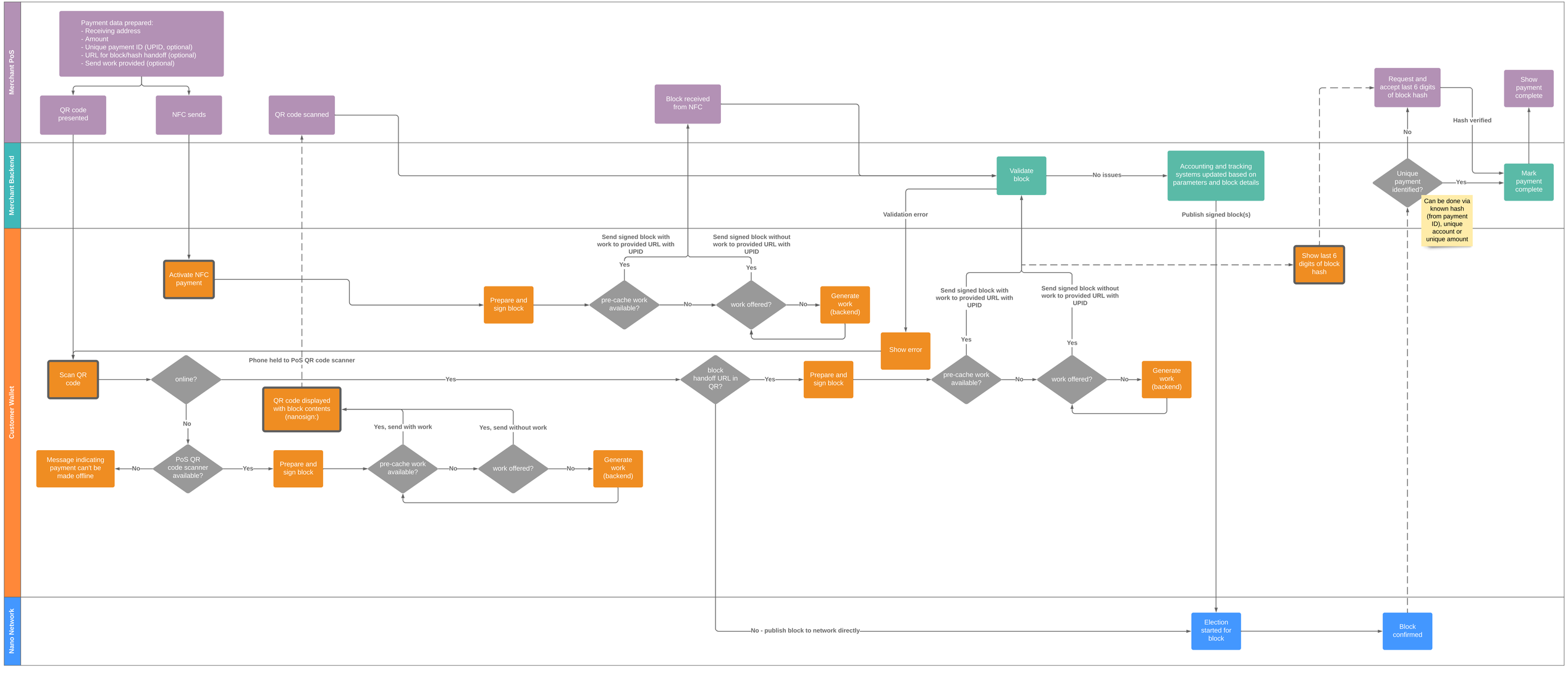
Merchant PoS
Merchant Backend
Customer Wallet
Nano Network
Payment data prepared:
- Receiving address
- Amount
- Unique payment ID (UPID, optional)
- URL for block/hash handoff (optional)
- Send work provided (optional)
QR code presented
NFC sends
QR code scanned
Block received from NFC
Validate block
No issues
Accounting and tracking systems updated based on parameters and block details
Request and accept last 6 digits of block hash
Show payment complete
Hash verified
No
Unique payment identified?
Yes
Mark payment complete
Can be done via known hash (from payment ID), unique account or unique amount
Validation error
Publish signed block(s)
Activate NFC payment
Send signed block with work to provided URL with UPID
Send signed block without work to provided URL with UPID
Yes
Prepare and sign block
pre-cache work available?
No
work offered?
No
Generate work (backend)
Show last 6 digits of block hash
Show error
Scan QR code
online?
Phone held to PoS QR code scanner
Yes
block handoff URL in QR?
Yes
Prepare and sign block
pre-cache work available?
No
work offered?
No
Generate work (backend)
QR code displayed with block contents (nanosign:)
No
Yes, send with work
Yes, send without work
Message indicating payment can't be made offline
No
PoS QR code scanner available?
Yes
Prepare and sign block
pre-cache work available?
No
work offered?
No
Generate work (backend)
No - publish block to network directly
Election started for block
Block confirmed