POS+ Permission List

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How permissions work

Each permission is one POS+ action. A user who lacks it can still do the action if someone who has it signs in to approve on the spot, as FPOS did.

1. **The user has the permission:** the action runs. Actions marked *Always approve* still need a second person, even for holders.
2. **The user lacks it:** the supervisor sign-in dialog opens. The approver must hold the same permission. The action runs, and the audit row (`POS_AUDIT_EVENT`) records both users.
3. **Neither has it:** the action is refused and a `PERMISSION_DENIED` audit row is written.

Columns in the tables below:

- **Gate:**
  - *Permission*: a holder does it directly.
  - *Always approve*: a second person every time.
  - *To decide*: see Open questions.
- **POS+ today:** what the code does now. It shows the gaps.
- **FPOS:** the legacy behaviour and access code, where one existed.

The codes are proposed names. The QubeBiz team owns the final codes.

Storing them in QubeBiz IAM. IAM today is admin screens × READ / CREATE / EDIT / DELETE / IMPORT / EXPORT bits, and APPROVE / REJECT exist but are inactive. One way to fit POS+:

- one `REF_MODULE` per permission, under a POS cashier group;
- READ = may perform;
- APPROVE = may approve for others.

Sales screen

No permission is needed for routine selling: scanning, picking a salesperson, adding a remark and going to pay. Signing in to POS covers those.

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_VOID_LINE`	Void a cart line	Removing a scanned line	Always approve	Supervisor + reason, every time	Item Void (always)
`POS_VOID_ALL`	All void	Clearing the whole cart	Always approve	Supervisor + reason, every time	Void All Items (always)
`POS_PRICE_OVERRIDE`	Change price	Unit price different from the catalogue	Always approve	Supervisor, in the line editor	Price Change (always)
`POS_EDIT_ITEM_DESC`	Edit item description	Renaming a cart line	Permission	Supervisor, in the line editor	`EDIT_ITEM_DESC`
`POS_ITEM_DISCOUNT`	Line discount	% or amount off one line	Permission	Supervisor, in the line editor	Item Discount % / $ (by group limit)
`POS_FREE_OF_CHARGE`	Free of charge	Setting a line's price to zero	Always approve	Not gated	FOC (always)
`POS_CHANGE_QTY`	Change quantity after scan	Editing a scanned line's quantity	To decide	Not gated	Change Item Quantity (always)
`POS_UNKNOWN_ITEM`	Sell an unknown item	Barcode not in the catalogue	Always approve	Not built	Non-Found PLU (always)
`POS_QTY_LIMIT_OVERRIDE`	Go over a quantity limit	More than the per-receipt maximum	Permission	Not built	`QPROLA`
`POS_HOLD_SALE`	Hold a sale	Parking the cart	To decide	Never asks, by design	Suspend (always)
`POS_RESUME_SALE`	Resume a held sale	Bringing a parked cart back	Permission	Not gated	—

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_RECOVER_CART`	Continue an unfinished cart	A cart left by an earlier session or crash	Always approve	Supervisor, every time	—
`POS_ITEM_SEARCH`	Item search	The item search screen	Permission	Not gated	`SEARCH`
`POS_PRICE_ENQUIRY`	Stock / price enquiry	Looking up stock and price	Permission	Not gated	—
`POS_CUSTOMER_REGISTER`	Register a customer	Creating a customer at the POS	Permission	Not gated	—
`POS_CUSTOMER_MEMBER`	Attach a member customer	Selecting a member on the sale	Permission	Not gated	`NOTMEM` (deny)
`POS_CUSTOMER_DEBTOR`	Attach a debtor customer	Selecting a debtor on the sale	Permission	Not gated	`NOTDEB` (deny)
`POS_PRICE_LEVEL`	Change price level	Switching the sale's price level	Permission	Not built (needs M16)	Price control by user group

Payment screen

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_SUBTOTAL_DISCOUNT`	Bill discount	% or amount off the whole bill	Permission	Not gated	Subtotal Discount % / $ (by group limit)
`POS_RESOLVE_CARD_PAYMENT`	Settle an unconfirmed card payment	Marking a card terminal payment PAID or NOT PAID when its result never came back	Always approve	Supervisor, every time	—

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_VOUCHER_OVERRIDE`	Voucher over limit	A store voucher above the allowed value	To decide	Not built (M14)	Store Voucher % / $ (by limit)

After the sale

The two biggest gaps today are here. Transaction void and refund run with no check at all.

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_TRANSACTION_VOID`	Void a completed sale	Reversing a paid sale	Always approve	**Not gated**	Transaction Void (always)
`POS_REFUND`	Refund	The refund screen	Permission (M09: approval where IAM requires it)	**Not gated**	`REFUND`
`POS_REPRINT`	Reprint receipt	Printing a past receipt again	Permission	Supervisor, every time	—
`POS_VIEW_TRANSACTIONS`	Transaction history	The transactions screen	Permission	Not gated	Reporting (visible to all)

Cash drawer

FPOS always asked for a supervisor on every cash movement. M10 says "manager approval where configured", so *Always approve* here may need to become a per-store setting.

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_PAID_OUT`	Paid out	Cash taken out for an expense	Always approve	Not gated	Paid Out (always)
`POS_SAFE_DROP`	Safe drop	Cash moved from the drawer to the safe	Always approve	Not gated	Safe Drop (always)

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_RECEIVE_CASH`	Receive cash	Cash added, e.g. the opening float	Always approve	Screen exists, nothing opens it	Receive Amount (always)
`POS_DEPOSIT`	Customer deposit	Part payment that parks a sale	Always approve	Function key does nothing	Deposit (always)
`POS_NO_SALE`	Open drawer without a sale	Kicking the drawer open	Always approve	Not built	No Sales (always)

Shift and day close

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_EOS_CLOSE`	Close shift	Starting End of Shift	Permission	Supervisor, every time (main menu)	`POSEOS`
`POS_EOS_VERIFY`	Verify a shift close	A second user approving the variance before the shift closes	Permission (held by the approver)	Not built (M11)	EOS verification
`POS_EOS_DECLARE`	Enter the cash declaration	Typing the count, as opposed to only printing it	Permission	Not built (M11)	"Print declaration only" group option
`POS_EOS_KICK_DRAWER`	Open drawer during EOS	Drawer button on the EOS screen	Permission	Not built (M11)	Authority login only
`POS_EOD_CLOSE`	Close the day	End of Day	Permission	Reached through the End of Shift supervisor sign-in	`POSEND`

Setup and admin

Proposed code	Permission	What it guards	Gate	POS+ today	FPOS
`POS_LOGIN`	Sign in to POS	Opening the POS at all	Permission	Only the store / terminal scope check	`POSLGI`
`POS_SETUP`	POS setup	Saving anything on the POS Setup screen	Permission	Code defined but not enforced; time zone change asks for a supervisor	`HARDST`
`POS_TRAINING`	Training mode	Entering and leaving training	Permission	Hardcoded manager-only	—
`POS_REPORTS`	Reports	Viewing and printing POS reports	Permission	Not built (M15)	Reporting, plus `DASHDA` / `DASHMT` dashboards
`POS_SOFTWARE_UPDATE`	Install an update	The software update tile	To decide	Not gated	—
`POS_EXIT_APP`	Quit POS+	Closing the app	To decide	Not gated	—

FPOS codes left out

FPOS code	What it was	Why it is not in POS+
`RECEIV`, `RETURN`, `ADJUST`, `TRFOUT`	Stock receiving, return outward, adjustment, transfer	No stock module in the POS+ plan (M01–M21)
`SELCTR`	Pick the counter at startup	POS+ reads the terminal identity automatically (M01)
`POSTOL`	POS Tools (reset database, clear history, change closing date)	No POS Tools module planned
`CSHPXZ`	Old close-shift report	Replaced by `POSEOS` already in FPOS

FPOS code	What it was	Why it is not in POS+
Override period discount	Supervisor overrides a promotion price	Promotions come from QubeBiz; see Open questions

Open questions

- [ ] Can anyone who holds a permission also approve it for others, as in FPOS? Or is approving a separate permission (the APPROVE bit)?
- [ ] Which *Always approve* actions stay always, and which become a per-store setting (M10: "where configured")?
- [ ] Hold sale: POS+ never asks, FPOS always asked. Which do we want?
- [ ] Change quantity after scan: FPOS always asked. Should POS+?
- [ ] Discount limits: QubeBiz already links manual and sales discounts to roles (`MAS_MANUAL_DISCOUNT_ROLE`, `MAS_SALES_DISCOUNT_ROLE`). With vouchers replacing manual discounts, do `POS_ITEM_DISCOUNT` and `POS_SUBTOTAL_DISCOUNT` stay?
- [ ] Voucher over limit and override period discount: are these needed once vouchers and promotions come from QubeBiz?
- [ ] Taking over another cashier's open cart through switch user (M18): does that need its own permission?
- [ ] Software update and quitting the app: restrict them, or leave them open?
- [ ] How does QubeBiz store these? One `REF_MODULE` per permission with READ / APPROVE bits, or another shape? APPROVE is inactive in `REF_IAM_ACTION` today.
- [ ] Users, scopes and roles don't sync to the POS yet; they're seeded locally. That sync is needed before any of this works on a real store.