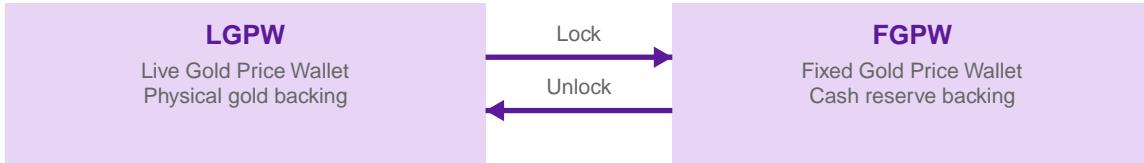


LGPW & FGPW Complete Guide

Finatrades Dual-Wallet Architecture with Certificates

Part 1: System Overview



What Backs Each Wallet?

Wallet	Backed By	Value	User Sees
LGPW	Physical Gold	Fluctuates with market	50g at market price
FGPW	USD Cash Reserve	Fixed (protected)	50g locked at \$150/g

Part 2: Certificate System

PHYSICAL STORAGE CERTIFICATE (PSC)

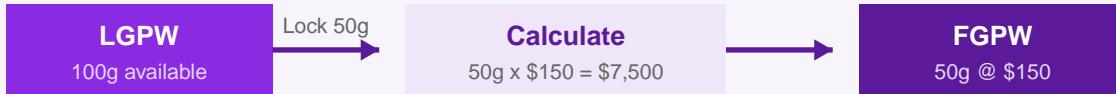
Proves: "100g gold exists in Finatrades vault"



Certificate	Type	Purpose	Status Options
PSC	Physical Storage	Gold exists in vault	Active, Inactive
DOC	Digital Ownership	User owns gold	Active, Partial, Redeemed
CONV	Conversion	Wallet transfer record	Active

Part 3: LGPW to FGPW (Lock Gold)

User Story: "Protect my gold at today's price"



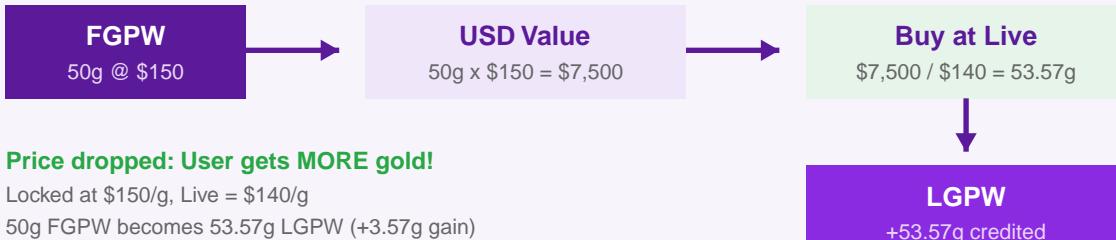
Certificate Updates:

1. DOC-001 (LGPW): 100g -> 50g remaining
2. DOC-002 (FGPW): NEW - 50g @ \$150/g Active
3. CONV-001: NEW - LGPW->FGPW 50g @ \$150
4. PSC-001: Event logged - WALLET_RECLASSIFICATION

User Notification: "Your gold value is now protected at \$150/g. Protected Value: \$7,500"

Part 4: FGPW to LGPW (Unlock Gold)

User Story: "Access my gold again"



Price dropped: User gets MORE gold!

Locked at \$150/g, Live = \$140/g
50g FGPW becomes 53.57g LGPW (+3.57g gain)

Certificate Updates:

1. DOC-002 (FGPW): 50g -> 0g, Status: REDEEMED
2. DOC-001 (LGPW): 50g -> 103.57g (credited 53.57g)
3. CONV-002: NEW - FGPW->LGPW 50g -> 53.57g @ \$140 live

Part 5: The Cash-Backed Formula

LGPW Gold = USD Value / Live Price

Where: USD Value = FGPW Grams x Locked Price

Three Unlock Scenarios

Scenario	FGPW	Locked	USD Value	Live	LGPW Received	Result
Price DOWN	50g	\$150/g	\$7,500	\$140/g	53.57g	+3.57g MORE
Price SAME	50g	\$150/g	\$7,500	\$150/g	50g	Same
Price UP	50g	\$150/g	\$7,500	\$160/g	46.88g	-3.12g LESS

Key Point: Your USD value (\$7,500) is ALWAYS protected. Only gold grams change based on market price.

Part 6: User-Facing Language

What to Tell Users

Internal Term	User-Friendly Term
Cash reserve	Protected value
USD backing	Value protection
Batch consumption	Unlock processing
FIFO	Oldest gold first
Live price conversion	Current market value

User Messages

When Price Drops (User gains gold):

"Great news! Gold price dropped since you locked. Your protected value of \$7,500 now buys 53.57g!"

When Price Rises (User gets less gold):

"Gold price rose since you locked. Your protected value of \$7,500 converts to 46.88g. Your dollar value is fully protected!"

Part 7: Complete 5-Transaction Example

Phase 1: User Locks Gold (5 Transactions)

Starting Balance: LGPW = 500g, FGPW = 0g

#	Action	Price	LGPW After	FGPW After	USD Reserved
1	Lock 100g	\$150/g	400g	100g	\$15,000
2	Lock 100g	\$160/g	300g	200g	\$31,000
3	Lock 50g	\$140/g	250g	250g	\$38,000
4	Lock 100g	\$145/g	150g	350g	\$52,500
5	Lock 50g	\$155/g	100g	400g	\$60,250

Phase 2: User Unlocks Gold (5 Transactions with FIFO)

Starting: LGPW = 100g, FGPW = 400g (\$60,250 reserved)

#	Unlock	Batch Used <small>(FIFO)</small>	USD Value	Live	Received	LGPW Total
1	80g	Batch 1 <small>(80g@\$150)</small>	\$12,000	\$155/g	77.42g	177.42g
2	50g	B1(20g)+B2(30g)	\$7,800	\$145/g	53.79g	231.21g
3	100g	B2(70g)+B3(30g)	\$15,400	\$150/g	102.67g	333.88g
4	120g	B3(20g)+B4(100g)	\$17,300	\$142/g	121.83g	455.71g
5	50g	Batch 5 (50g)	\$7,750	\$160/g	48.44g	504.15g

Final Result:

Started: 500g total | Ended: 504.15g total | Net Gain: +4.15g from price movements

All \$60,250 USD value was preserved throughout!

Part 8: P2P (Peer-to-Peer) Transfer Flow

Key Rule: Receiver ALWAYS gets LGPW

All P2P transfers result in the receiver getting gold in their LGPW at live market price.

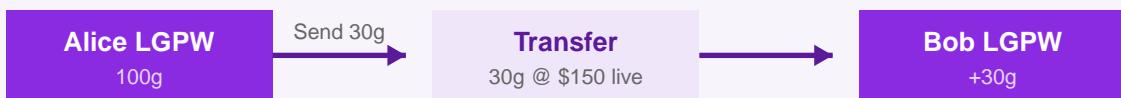
Why?

- FGPW is a personal value protection tool, NOT transferable to others
- When sending from FGPW, system auto-unlocks to LGPW first, then sends
- Receiver gets real gold (LGPW) they can use, lock, or transfer again

Transfer Types

From Wallet	Process	Receiver Gets
LGPW	Direct transfer at live price	LGPW (same grams)
FGPW	Auto-unlock !' then transfer	LGPW (converted grams)

Example 1: LGPW to LGPW (Simple Transfer)



Result: Alice LGPW: 100g !' 70g | Bob LGPW: +30g | Live Price: \$150/g
Certificates: Alice DOC partial surrender, Bob DOC credit, Transfer CONV created

Example 2: FGPW to LGPW (Auto-Unlock Transfer)

Alice sends 50g from her FGPW (locked @ \$160/g) to Bob. Live price = \$150/g



Calculation:

1. Alice FGPW: $50g \times \$160$ locked = $\$8,000$ USD value
2. Convert to live: $\$8,000 \div \$150/g = 53.33g$
3. Bob receives: 53.33g in LGPW (more gold because price dropped!)

Part 8: P2P Transfer Examples (Continued)

Example 3: FGPW Transfer When Price Rose

Carol sends 100g from FGPW (locked @ \$140/g) to Dave. Live price = \$155/g



Example 4: Mixed Wallet Transfer

Eve sends 80g total: 50g from LGPW + 30g from FGPW (locked @ \$145/g). Live = \$150/g

Step 1: LGPW portion (direct)

50g from LGPW ! 50g to Frank (same grams, live transfer)

Step 2: FGPW portion (auto-unlock)

$30g \times \$145 = \$4,350$ USD ! $\$4,350 \div \$150 = 29g$ to Frank

Final Result:

Eve sent: 50g LGPW + 30g FGPW = 80g equivalent

Frank received: $50g + 29g = 79g$ in LGPW (1g less due to price rise on FGPW portion)

Certificates: Eve DOC surrenders, Frank DOC credit, 2x Transfer CONV records

P2P Transfer Summary

#	Sender	From Wallet	Locked Price	Live Price	Sent	Received
1	Alice	LGPW	-	\$150/g	30g	30g
2	Alice	FGPW	\$160/g	\$150/g	50g	53.33g
3	Carol	FGPW	\$140/g	\$155/g	100g	90.32g
4	Eve	Mixed	\$145/g (FGPW)	\$150/g	80g	79g

Key Takeaway:

LGPW transfers are 1:1. FGPW transfers convert to live price first - receiver may get more or less gold depending on price movement since lock.

Part 9: Certificate Trail After All Transactions

Certificate	Type	Final Status	Notes
DOC-001	LGPW Ownership	Active	504.15g final balance
DOC-002	FGPW Batch 1	Redeemed	Fully consumed in unlocks 1-2
DOC-003	FGPW Batch 2	Redeemed	Fully consumed in unlocks 2-3
DOC-004	FGPW Batch 3	Redeemed	Fully consumed in unlocks 3-4
DOC-005	FGPW Batch 4	Redeemed	Fully consumed in unlock 4
DOC-006	FGPW Batch 5	Redeemed	Fully consumed in unlock 5
CONV-001 to 010	Conversion	Active	Complete audit trail
PSC-001	Physical Storage	Active	504.15g now fully in LGPW

Part 10: Platform Disclaimer

FGPW (Fixed Gold Price Wallet) Protection Disclosure

When you transfer gold from LGPW to FGPW, your gold's dollar value is locked at the current market rate. The platform reserves the equivalent USD value to protect your investment.

When you unlock from FGPW to LGPW, you receive physical gold equivalent to your protected dollar value at the current market price. This means:

- If gold price drops: You receive MORE gold grams
- If gold price rises: You receive LESS gold grams
- Your USD value is ALWAYS preserved

FGPW is a value protection service, not a speculative instrument.

Summary

LGPW (Live Gold Price)

- Physical gold backing
- Value fluctuates with market
- DOC certificate = Active
- PSC certificate = Active
- User sees: "50g at market"

FGPW (Fixed Gold Price)

- Cash reserve backing (USD)
- Value protected at lock rate
- DOC certificate = Active/Partial
- PSC event = Reclassification
- User sees: "50g @ \$150"