

Agenda



- The Changing role of Fund Servicing
- A 'day in the life' walkthrough
 - ✓ Investor participation
 - ✓ Consensus based transactions
 - ✓ How settlement works
- Success Criteria
- Next steps

FAC Operating Model – Focusing on Fund Servicing



1. Transfer Agent role evolves

- Investor on ledger
- Collapsed messaging and reconciliation requirements
- Consensus based data maintenance – the register is 'self-maintaining'

2. Interactions with other parties in the workflow

- Depositary
- Fund custodian and accountant

3. Maintaining AFM as principal

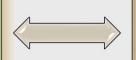
- Acting as the fund token issuer
- Managing token liquidity on ledger

Cash Exchange



- Tokenised cash and shares
 - Atomic Settlement
 - Distributed Ledger

Fund



Investor

7. Cash On Ledger

- A highly regulated activity (EMR & AML)
- Absolute legal certainty required for token as a store of value, with holders' right to redeem on demand
- Investor protection available on fiat currency must be applied equally to cash tokens

6. Different models for Investor Engagement

- Direct on ledger
- Distributor / wealth manager
- Retail portal
- Investor custody

4. Atomic settlement of trades

- DvP window is zero
- Binding of fulfilment and settlement

5. Asset Tokenisation

- Funds issuing shares as digital assets
- Possession of tokens replaces book entries

Changing Face of Fund Servicing



Redefine the Transfer Agents Role

- Investors directly on ledger transforms onboarding, transaction management and settlement processes
- Consistent, standardised technology and data stack breaking down silos and removing IT complexity
- Self-maintaining register with consensus driven updates and real time registration
- Immediate DvP with tokenised cash and assets removing client money concerns, cash management and reconciliations
- Reduced delivery to Fund Managers FMs 'selfservice' in the new model
- AML/KYC pushed to network boundaries and based on federated data sharing

Future Fund Servicing Role:

- Dealing as principal and acting as counterparty to investor trades
- Managing issuance of tokenised shares
- Pricing investors' orders
- Orchestrating settlement and maintaining liquidity with Fund Custodian
- Providing regulatory oversight and tax reporting

New Relationships

- Cash Exchange
- Business Network Operator
- Network Governance

'A Day in the Life' Walkthrough (& high level test plan!)



Activity	Change	Impact on Servicing	Testing
Investor Servicing	Investor on ledger	Single common messaging platform	Investor orders received by fund over network
Registration	Investors manage their own data	KYC/AML and Investor setup not performed by fund servicer	Validate the concept of a self maintaining register
Order Processing	Order validation by consensus and smart contract	Fewer failed and incorrect trades	Verify order entry and receipt processing
Cash Flow Reporting	Fund Manager has real-time access to subs and reds	Less effort needed to service fund manager data requests	Use fund manager node to track investor dealing
Pricing	Prices distributed to investors over network	Fund prices loaded once and immediately shared	Load prices and validate controls and distribution
Settlement Orchestration	Atomic settlement radically transforms settlement process	Orchestration of share issuance and cash liquidity to ensure settlement successful	Settle priced orders with both net subscription and net redemption outcomes
Reconciliation	Cash and trading ledger reconciliation removed	No reconciliation needed	Confirm system maintains accurate records without reconciliation
Oversight	No change, function still required	Reporting capabilities maintained on servicing node	Test production of reports against regulatory and tax requirements

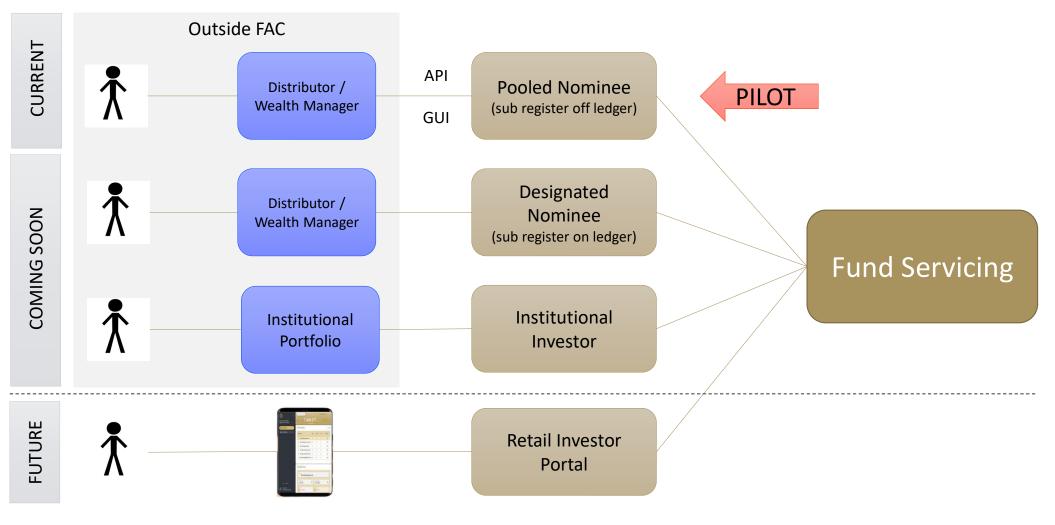
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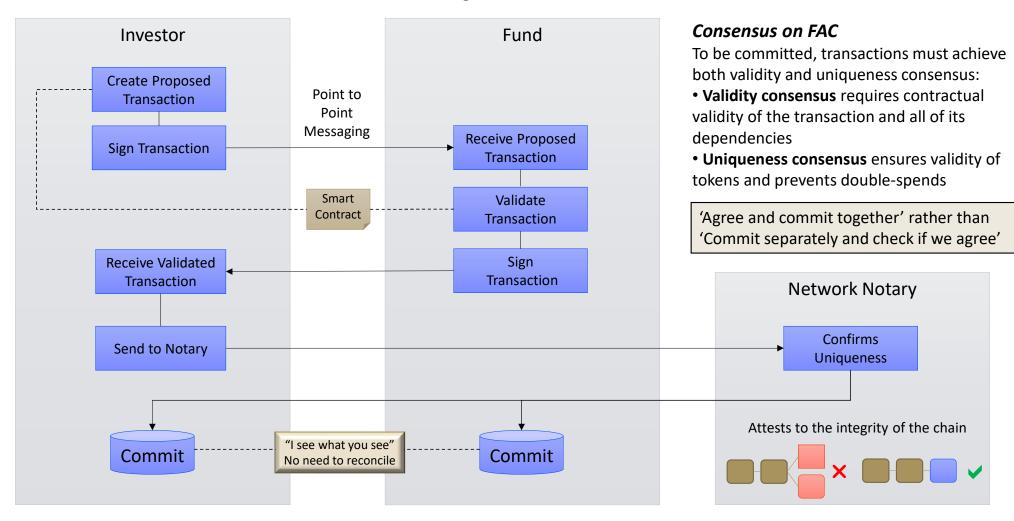
Investor Participation Models





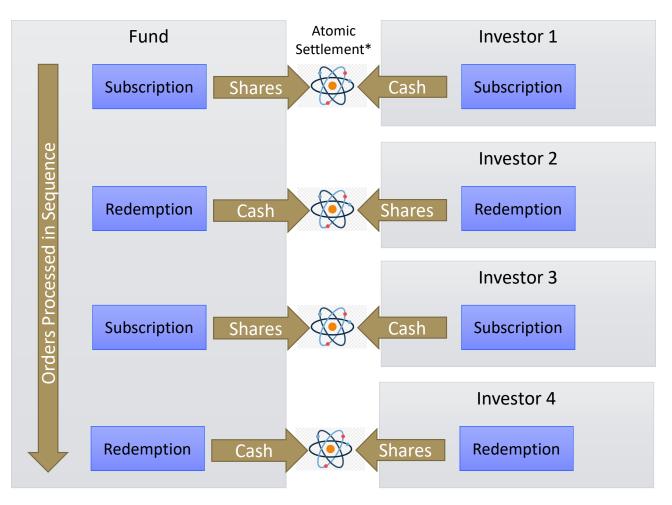
How Consensus Works – Example Transaction





How Settlement Works





*Each of these is a validated and notarised update similar to previous slide

- Settlement is no longer a book entry and a bank instruction. It is a coordinated bilateral DvP with shares and cash being exchange digitally through token transfer.
- Orders are processed sequentially with the proceeds of one trade available to settle the next.
- Running out of available tokens will stop the settlement process.
- Before starting the operator must ensure sufficient tokens (cash and shares) are available to ensure completion.
- On completion residual cash tokens would be returned to the fund and residual shares tokens cancelled (or held for next day).

Success Criteria



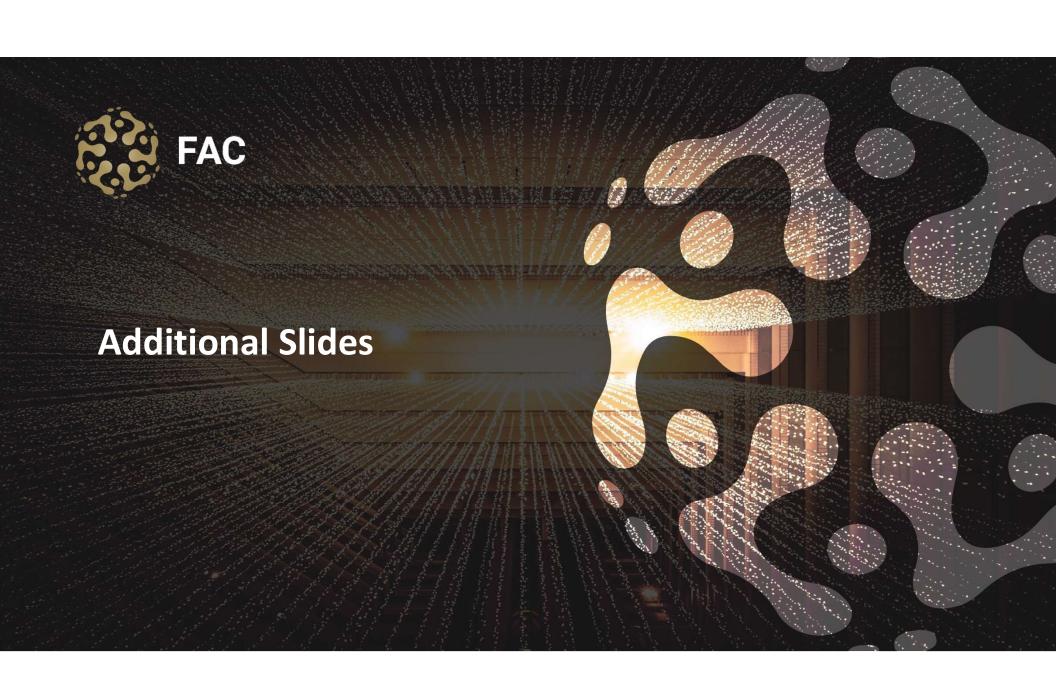
Working together to operate a fund on the FAC platform through the 'day in the life' business cycle will enable us to:

- Validate the proposed operating model;
- Gain recognition for the potential transformational opportunities for funds servicing;
- Achieve an agreed view of how close FAC is to a solution for funds servicing and what would be required to bring it to production;
- Build commitment from participants to support the further development of FAC.

Next Steps



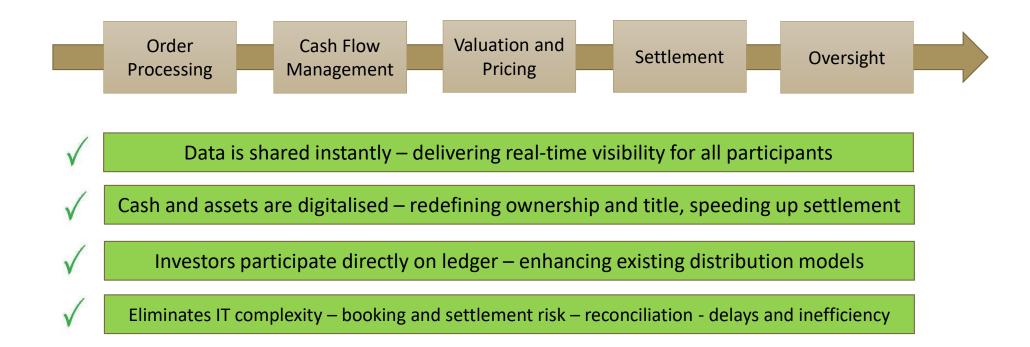
- Target now is agreement from you on a date to start testing;
- All participants to ratify approach and success criteria;
- Next session before end November to address detailed planning for testing (who does what and when);
- FAC will deploy pilot environment and train your testers;



Transforming Funds Servicing



Daily fund servicing cycle dramatically improved



Operational Consequences of Fund Tokenisation



1. Investor participation increases and becomes direct

• Investors / Concentrators will be active participants on the network, not at the other end of a Swift connection or a fax machine. They will manage their own data and approve changes or token transfers that impact their node on the ledger.

2. Possession of tokens replaces book-entries

• Mutual fund shares (and most forms of cash) are dematerialised, and exist as book-entries. Tokenisation effectively creates a digital 'certificate', where title is proven by holding the certificate, and is secured by the digital signature of the holder.

3. There is no centralised register of shares

• Having the owner's name on the TA's register does not prove title: the ledger defines the register. A TA can no longer reassign ownership by updating their own records, as tokens have to move and the Investors have to approve that. The Fund nodes have visibility of tokens issued by them, so they can readily construct a view equivalent to 'the register'.

4. The transaction record is the transaction

• On issuance, the fund token is transferred to the Investor node: that is the transaction <u>and</u> the record of the transaction. The token is immobilised at the node, in the Investor's safekeeping, until transferred back to the Fund node at redemption.

5. Tokenisation (of assets AND cash) redefines settlement

- There is no need for intermediate client money accounts as settlement becomes a bilateral exchange of cash and asset tokens where both parties must be present and authorise the transfer together.
- As a consequence the Transfer Agent has significantly less involvement with managing cash: there is no longer a need to match cash receipts to deals or to reconcile banks accounts to ledger transactions and balances.

TA 1.0 Functions	TA 2.0 Impact Mostly the same Material changes Eliminated	How the function improves Solution streamlined by shared data for all network participants Becomes a core function/feature of the FAC network	Part of Successful PoC?	Closing Gaps Process design w/ light dev Market partner dependent Roadmap development	Ready for Q3/4 Pilot?
Client Servicing (Client = Fund Manager or other Inst. Investo	or)	TA 2.0 client/fund manager servicing team responsibility, albeit with access to investor data shared with the Fund Node	PARTIAL	PMR	YES
Transaction Management Settlement	&	Digitalisation of cash and fund shares enable coupling of the transaction and the related settlement in real-time Investors and Funds top-up or cash out via Cash Exchange	PARTIAL	PMR	PARTIAL
NAV Pricing		Fund Accountant provides NAV and receives TA data as in TA 1.0 Immediate access to official NAV for network participants	YES	P M R	YES
Distributions		Digitalisation of cash and fund shares enable coupling of the distribution, reinvestment and any related settlements in real-time Automated allocation to nominee-based investors	YES	PR	YES
Registration		Transactions & investor data changes are initiated on Investor Node TA 2.0 role ensures compliance with fund/jurisdiction rules	YES	PR	YES
AML/KYC		KYC performed by operator of Investor Node (i.e., institutional investor, distributor, also KYC'd) through a KYC utility for the network as a whole, and AML controls run by Cash Exchange.	NO	P M R	PARTIAL
Document Management	②	Operator of Investor Node (nominees) will maintain the relevant documents for investors on their node Relevant documents can be attached to all transactions in FAC	NO	PR	YES
Distributor Management		Distributor operates their own Distributor Node where all of their transactions, fees and data changes are initiated	YES	PMR	PARTIAL
Regulatory & Tax Reportin	g	Reporting utilities leverage data and FAC-native tax/fiscal agent calculations on the Fund Node	NO	P M R	PARTIAL
Investor Servicing		TA 2.0 investor servicing team responsibility, albeit with access to investor data shared with the Fund Node	YES	PR	YES
Reconciliations	3	As nodes are always in synch and transactions and settlements are coupled, reconciliations of cash settlements against share transactions and to other participants' records are not required	YES	3	YES