

Since its launch, Stock Connect, the landmark mutual market access programme linking the Hong Kong and Mainland China equity markets, has fundamentally changed capital markets in the region, pioneering greater accessibility and offering more investor choice, resulting in record trading volumes.

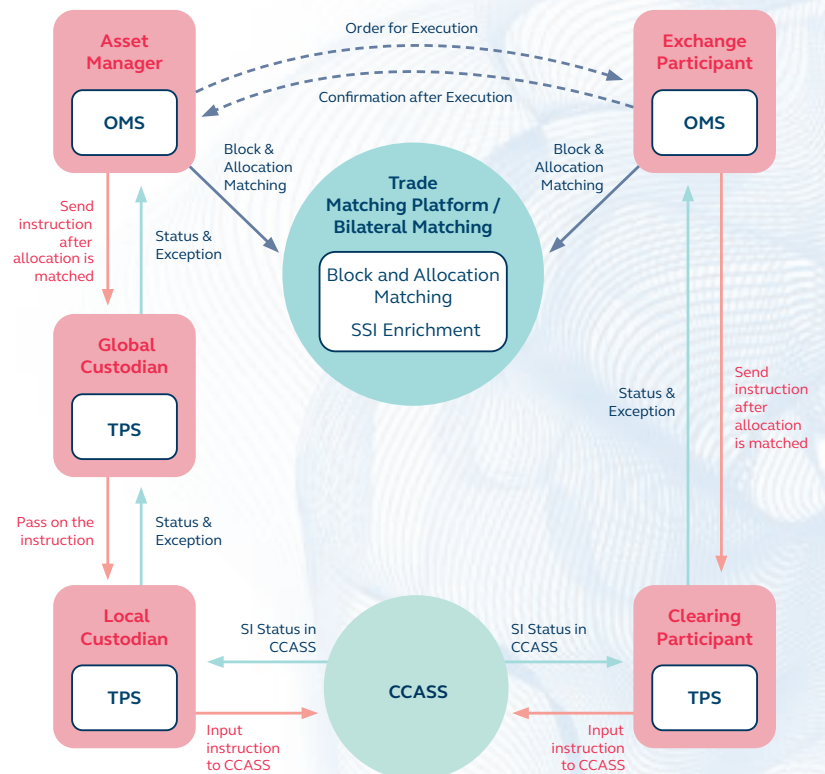
As international investors' access and participation in China's onshore market grows, so too do the post-trade complexities, due to different settlement requirements across markets. Market participants, including Asset Managers, Global Custodians, Local Custodians, Exchange Participants, and Clearing Participants, have been deploying tailored solutions to improve post-trade efficiencies. The lack of interoperability amongst these solutions, however, has in turn created additional operating, processing and counterparty risks.

In collaboration with the matching platform provider Depository Trust & Clearing Corporation (DTCC), Hong Kong Exchanges and Clearing Limited (HKEX) is launching HKEX Synapse, a new integrated settlement workflow tool, to complement the existing post-trade infrastructure for Northbound Stock Connect. The solution aims to standardise and streamline post-trade processes and workflows, maximising connectivity and efficiencies for market participants in a transparent, secure and reliable manner.

## Stock Connect Challenges

As participation in the Stock Connect programme has grown, common challenges have arisen amongst market participants.

<b>Bespoke processes within tight settlement window</b>	Stock Connect is a T+0 market, but is integrated into the established settlement flow designed for a T+2 market. Various bespoke solutions have been introduced to address market needs.
<b>Operational Risk</b>	Multiple bespoke solutions, many with manual processes, increase the processing burden and operational risks.
<b>Complexity due to low transparency</b>	Participants have no real-time visibility into the settlement status, reducing the time they have to resolve exceptions.
<b>Scalability</b>	Lack of standard processes and manual workflow mean scalability is an issue; further index inclusion increases risks and may limit access.
<b>Barrier to participation</b>	Participants may be discouraged from participating in the Stock Connect market due to the additional risks and costs arising from bespoke solutions.



OMS: Order Management System / TPS: Transaction Processing System

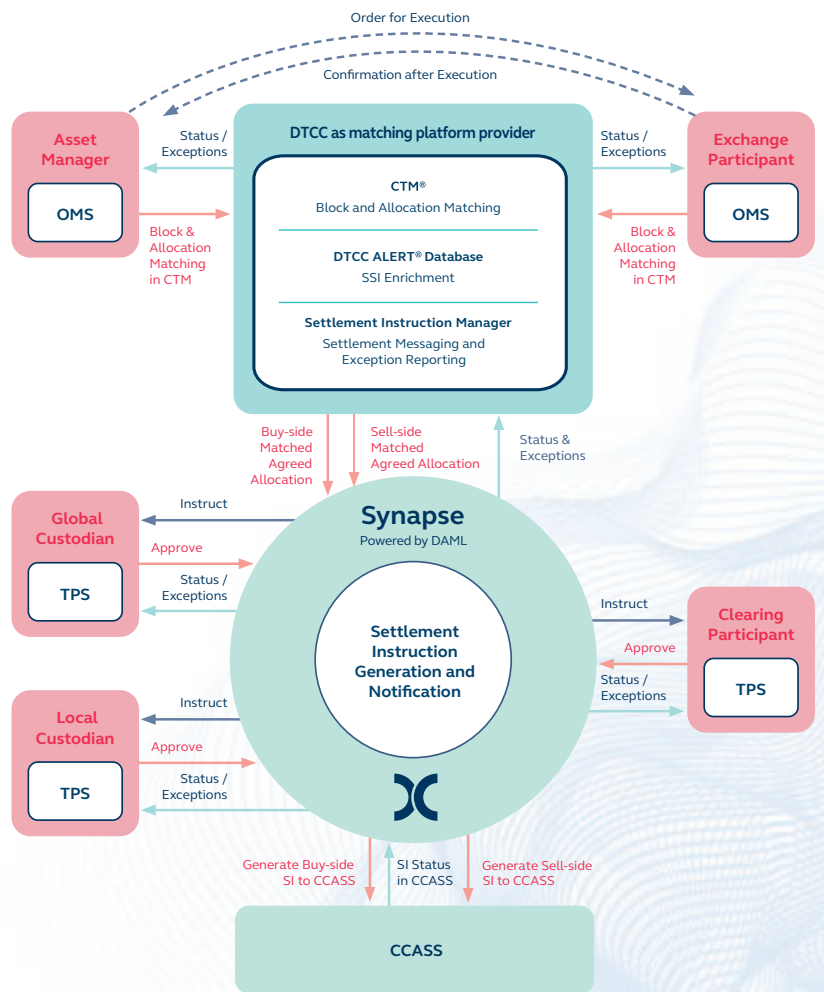
# The Solution: **HKEX Synapse**

The existing sequential workflow lacks transparency, delays downstream processing, and complicates exception resolutions. A standardised settlement instruction platform and workflow tool, therefore, is needed to facilitate Northbound Stock Connect post-trade processes and workflows with accurate and timely status updates.

HKEX Synapse provides a standardised and centralised platform and workflow tool that generates a single source of truth for settlement instruction workflow, enabling the enrichment of trades instructed by Asset Managers or their matching platform providers. It then simultaneously creates settlement instructions to all parties along the settlement chain, facilitating concurrent processing. It also provides near instantaneous status updates to HKEX Synapse participants, thereby greatly improving transparency for all market participants via multiple connectivity options.

The HKEX Synapse solution intends to standardise settlement workflows and in doing so will provide greater efficiency and transparency to Stock Connect’s market participants, while connecting them to a more seamless post-trade workflow.

<b>Leverages existing connectivity</b>	Synapse leverages existing connectivity through interfacing to matching platform providers.
<b>Standardises settlement initiation flow</b>	Synapse introduces a standardised settlement initiation workflow, which reduces operational risk, while improving scalability.
<b>Improves transparency</b>	Synapse provides instantaneous status updates, allowing for faster processing and improved exception management.
<b>Encourages Stock Connect adoption</b>	Standardising workflows and reducing the risks and costs associated with bespoke solutions will alleviate compliance burdens and encourage new entrants to the Stock Connect market.
<b>Leverages new technology and latest SWIFT standards</b>	Synapse is powered by DAML smart contract technology. GUI, API and ISO 20022 SWIFT interfaces are flexible connectivity options to Synapse, allowing for efficient integration, while also moving the market into the future.



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