

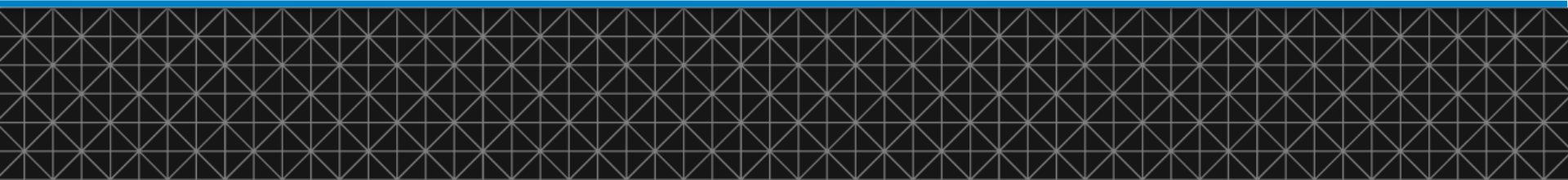


Securing Today. Shaping Tomorrow.™

DTCC Solutions

Hasan Rauf
Executive Director, DTCC, APAC

The Power of the Utility



DTCC stands at the forefront of innovation



With over **40 years of experience**, DTCC is the **premier post-trade market infrastructure** for the global financial services industry. We are **industry-owned** and **industry-governed**.

From operating facilities and data centers around the world DTCC, through its subsidiaries, **automates**, **centralizes**, and **standardizes** the processing of financial transactions across the trade lifecycle and **mitigates risk** for **thousands of institutions** worldwide.

40

DTCC Brings Economies of Scale

In 2015, **DTCC's subsidiaries** processed securities transactions valued at approximately **US\$1.5 quadrillion**.

DTCC's **DTC** subsidiary provides custody and asset servicing for securities issues from over **130 countries** and territories valued at **US\$45 trillion**.

DTCC's **NSCC** subsidiary is the central clearinghouse for more than **50 exchanges and equity trading platforms** in the U.S.



DTCC's **Global Trade Repository** processes **over 250 million** submissions per week covering **5 asset classes**.

DTCC's **FICC** subsidiary processes approximately **US\$4 trillion each day** in U.S. government- and mortgage-backed securities transactions.

DTCC's **Avox** data service validates global business entity reference data on more than **2 million entities** in its advanced database.

DTCC's **Omgeo** services processed more than **817 million trade details** in 2015.

Our Regulators



U.S. Securities and Exchange Commission

National Securities Clearing Corporation (NSCC)*
 Fixed Income Clearing Corporation (FICC)*
 The Depository Trust Company (DTC)*
 Omgeo LLC



Federal Reserve Bank of New York

The Depository Trust Company (DTC)*
 The Warehouse Trust Company, LLC (WTC)



New York State Department of Financial Services

The Depository Trust Company (DTC)*
 The Warehouse Trust Company, LLC (WTC)



The Bank of England

European Central Counterparty Limited



Financial Conduct Authority (FCA)

DTCC Derivatives Repository Limited (DDRL)
 Omgeo Ltd.



Ontario Securities Commission

Omgeo Canada Matching Ltd.



U.S. Commodity Futures Trading Commission

DTCC Data Repository (U.S.) LLC (DDR US)



Japan Financial Services Agency (J-FSA)

DTCC Data Repository (Japan) KK (DDRJ)



Monetary Authority of Singapore

Monetary Authority of Singapore (MAS)

DTCC Data Repository (Singapore) PTE Ltd. (DDRS)



European Securities and Markets Authority (ESMA)

DTCC Derivatives Repository Limited (DDRL)

*Designated by the Financial Stability Oversight Council (FSOC) as "systemically important financial market utilities" under Title VIII of Dodd-Frank in July 2012.

Some of our Clients in Asia

Multi - National Clients

- AIA
- Amundi
- ANZ
- Alliance Bernstein
- AXA
- Barclays
- BNP
- Blackrock
- Credit Suisse
- Citco
- Citi
- CLSA
- Deutsche Bank
- First State
- Franklin Templeton
- Goldman Sachs
- HSBC
- ING
- Invesco
- Investec
- JP Morgan
- Macquarie
- Manulife
- Merrill Lynch
- Morgan Stanley
- Northern Trust
- Nomura
- Norges
- PIMCO
- Prudential
- Samsung
- Schroders
- SocGen
- Standard Chartered
- State Street
- Templeton
- UBS
- Vanguard
- Well Fargo
- 50+ SWF globally
- Etc...

Strategic Local Clients

- Aminvest Bank
- Bank of Korea
- Bank N. Malaysia
- BoC IM
- BOCI
- BOCOM
- Colonial FS
- CICC
- CIMB
- CITIC
- China AM
- China Southern
- China Sec
- Daiwa
- Danareksa
- DBS Vickers
- EPF
- Fortune SG FM
- Fullerton
- GIC
- Great Wall Sec.
- Gordian Capital
- Haitong Sec.
- Harvest FM
- AMBANK
- Hong Leong
- ICBC
- Kenanga
- KIC
- LionGlobal
- Mirae Asset
- Mitsubishi
- Maybank
- Nikko AM
- Nomura
- NTUC
- OCBC sec.
- Penghua FM
- Platinum
- AMBANK
- Schroders
- Taikang AM
- Tokio Marine
- Temasek
- UOB
- XiangCai
- Yinhua FM
- Etc...

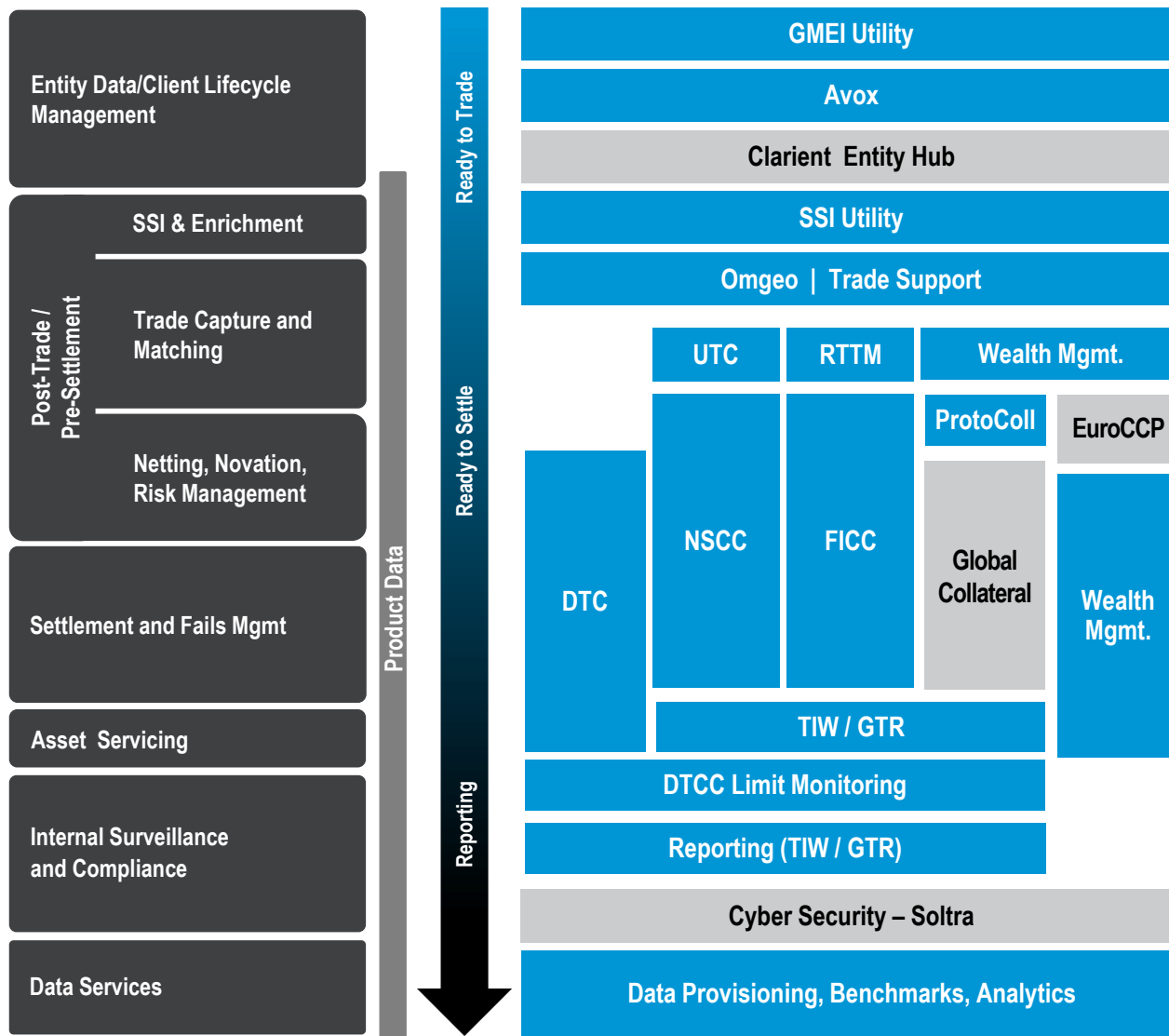
Hedge Fund Clients

- 10 of the top-10 Global HFs
- 200+ HFs in 12 countries
- Most of the world's outsourcers also subscribe to Omgeo

Private Banks

- ANZ
- ABN Amro
- Barclays
- BNY
- Credit Suisse
- Citi
- Deutsche Bank
- HSBC
- JP Morgan
- SocGen
- SEB
- UBS
- Etc...

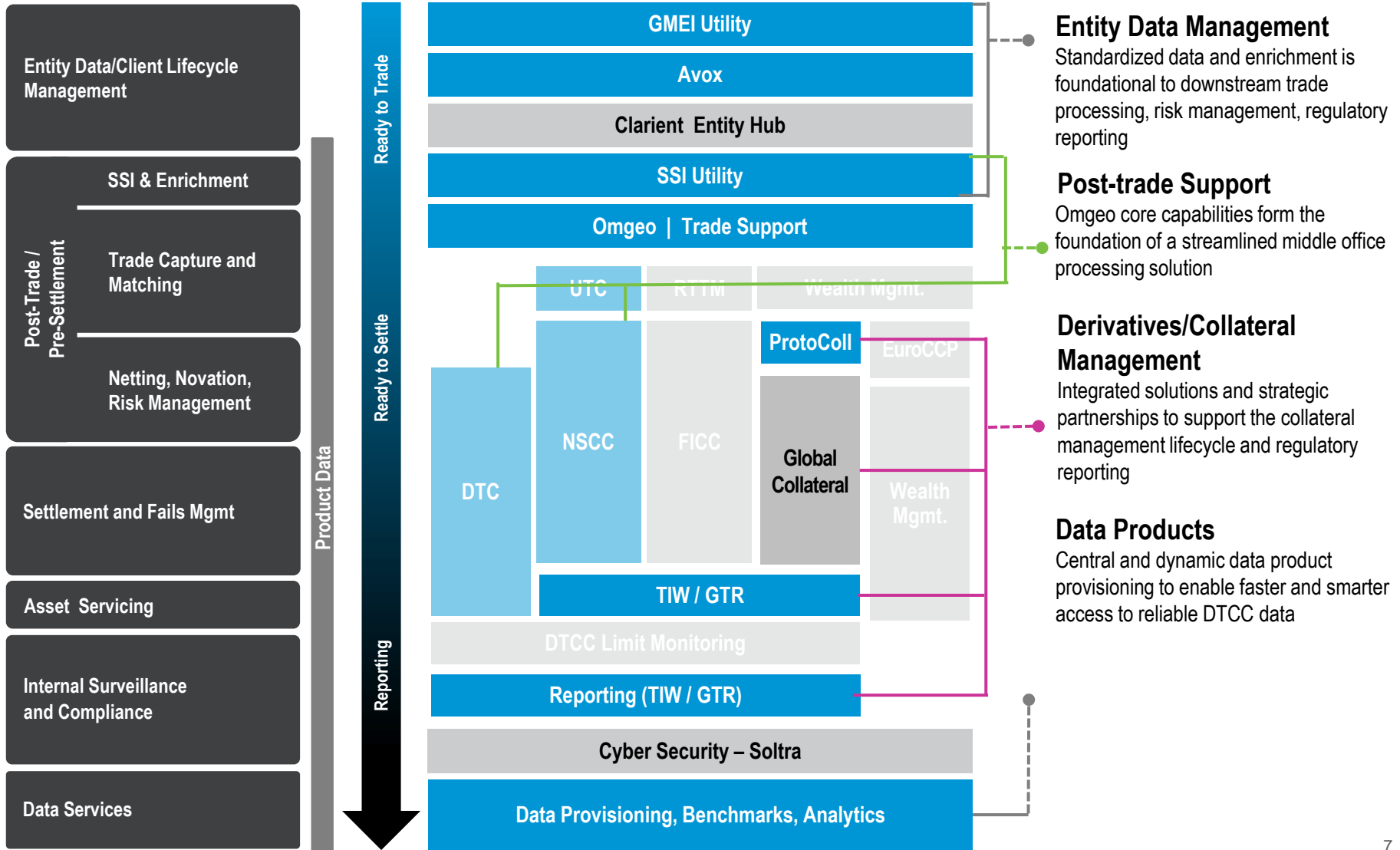
DTCC Enterprise View



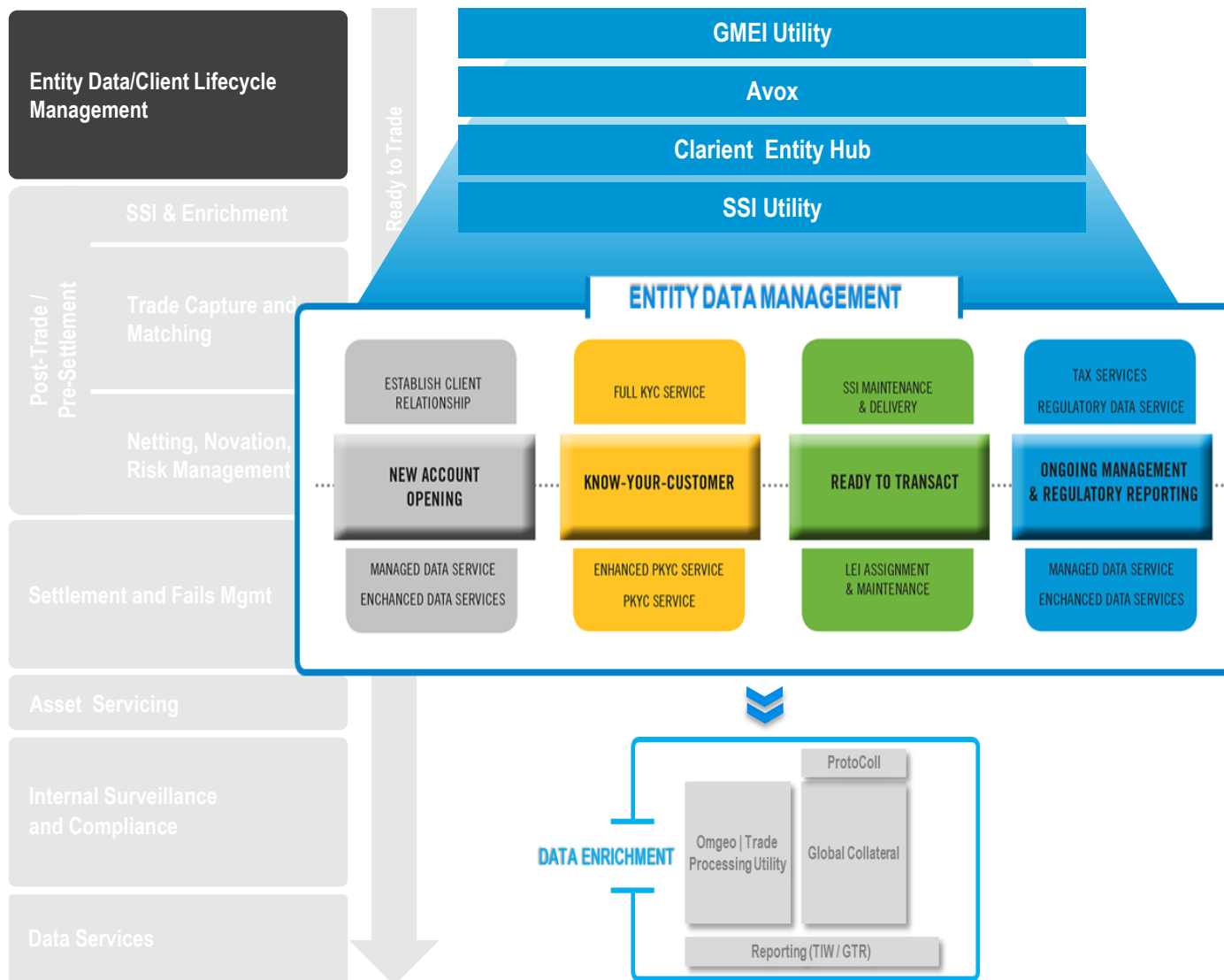
DTCC

- We serve client's needs across the **entire post trade lifecycle** – from initial client onboarding through trading, clearance, settlement, asset servicing and data reporting
- DTCC's **clearing and settlement services** focus on preserving seamless operation of the financial marketplace on a daily basis and during times of market volatility
- We respond to regulatory pressures and client demands to **leverage existing solutions to deliver new capabilities** that add value by mutualizing certain non-revenue generating, commoditized processes at market participant firms worldwide

DTCC Solutions | Building on our core capabilities



Entity Data Management



Standardized Data

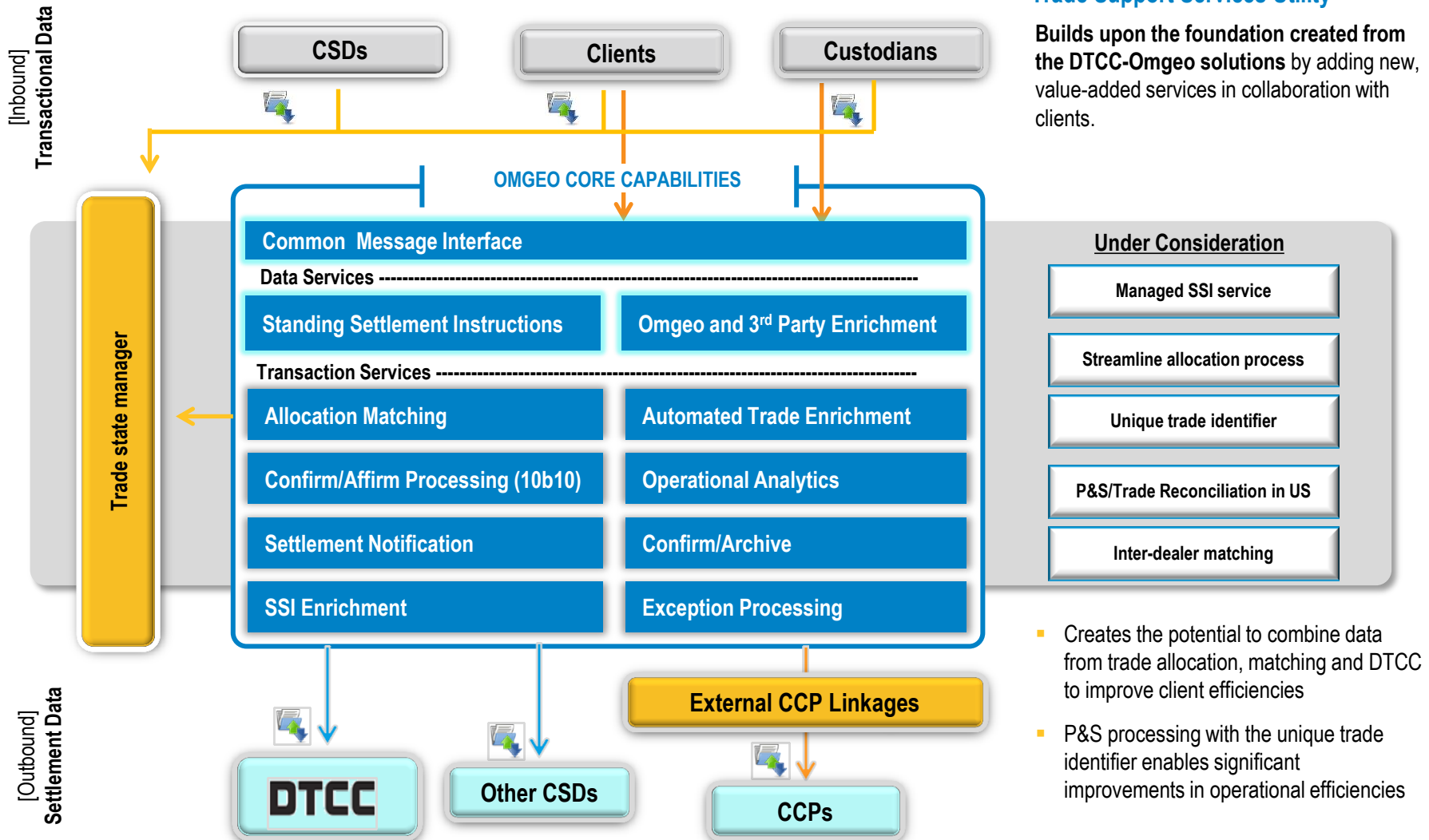
A single entry point will provide clients access to a suite of tiered public and private data and document services designed to meet various client data challenges across the data lifecycle, improving the accuracy and usability of the data.

Data Enrichment

Standardized client data is foundational to downstream trade processing, risk management and trade reporting

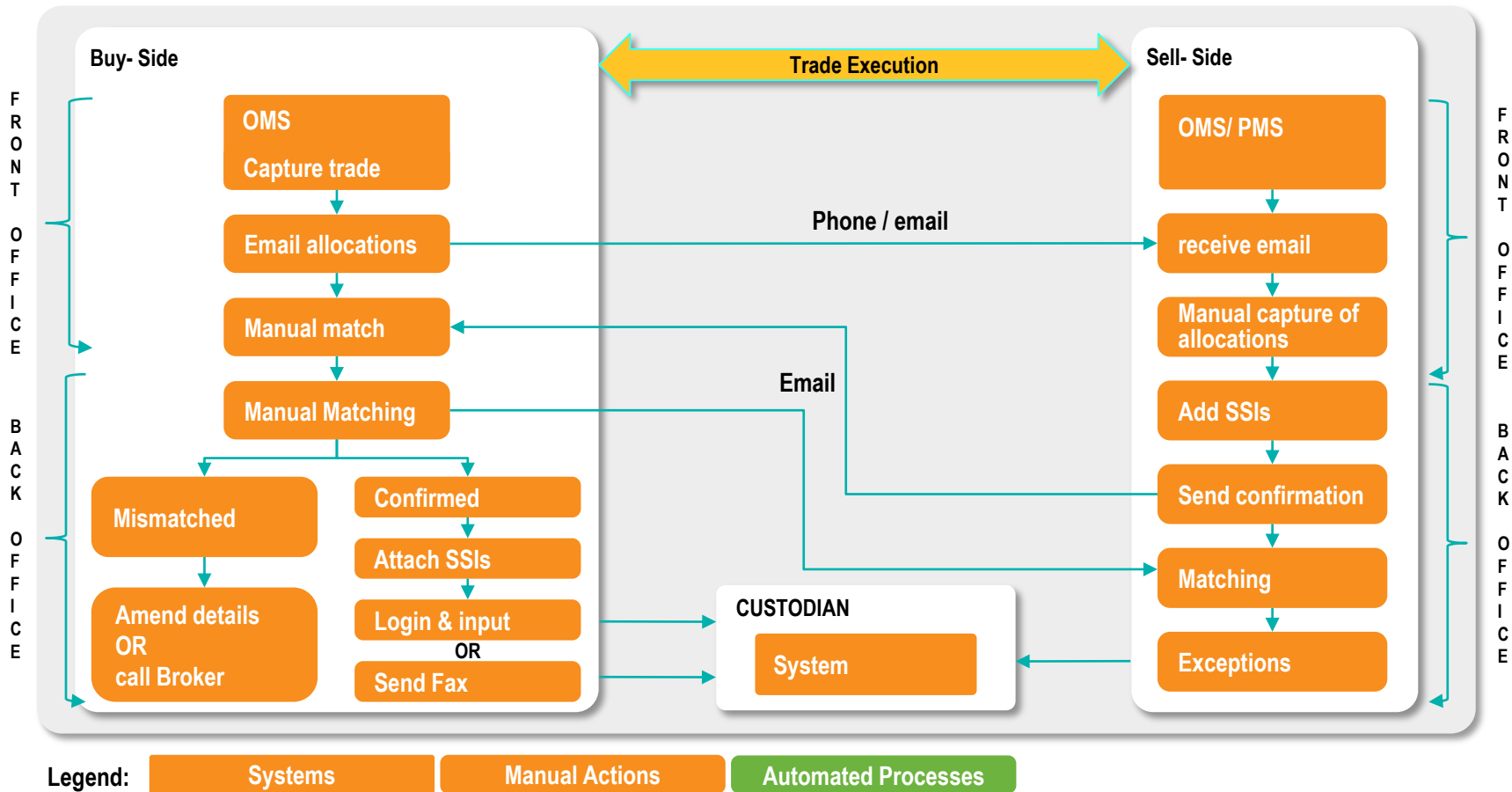
- Collapse the ready to trade and ready to settle processes allowing for faster account set up and trading
- Streamline settlement
- Automate collateral optimization and increase efficiency of counterparty communications
- Regulatory compliance and reporting

Post Trade/Middle Office Processing



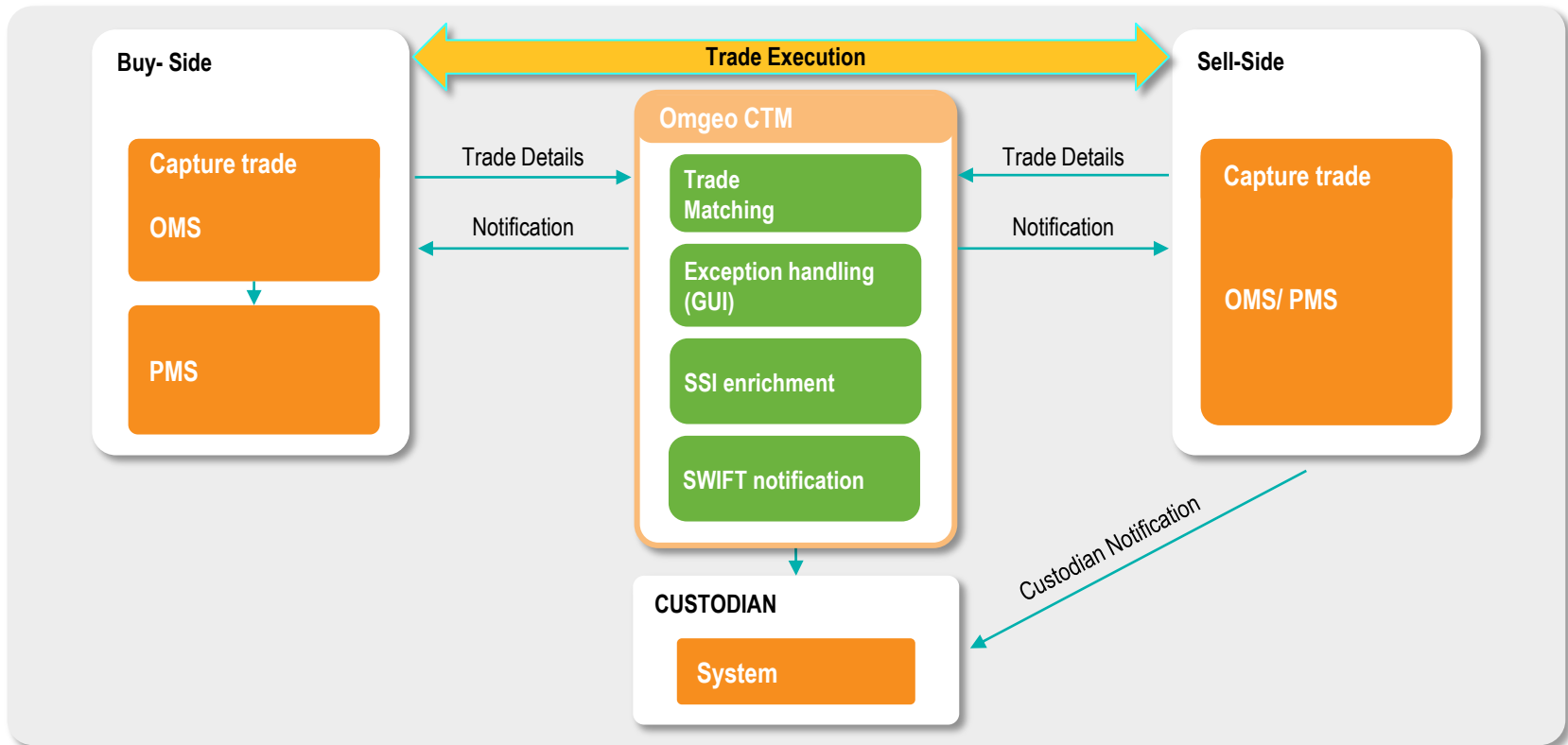
Current Trade Workflow

The current Workflow still involves a lot of manual intervention and operational risks



DTCC Proposed Workflow

With DTCC, the workflow is completely STP and scalable, Operational risks are drastically reduced. Trades are matched/confirmed automatically, no matching errors, SSIs are accurate.



Legend: Systems Manual Actions Automated Processes

The Power of Connectivity

The real value of an integrated offering comes where we are able to leverage the synergies between the products and services and create integrated solutions that allow our clients to respond to industry pressures in a more effective fashion.

