

Evolving Technologies Working Group

11 March 2025, On Teams

Meeting Minutes

Bill Hodash, Colin Parry (PMO)

Participants (in attendance in bold):

LudivineChaulierBanque Internationale à Luxembourg SAClaudioCalderonDeposito Central de Valores (DCV)

GlenFernandesEuroclearCharuJainS&P Global

Rok Šketa KDD Central Securities Clearing Corporation

Karine Taquet SWIFT SCRL Giles Elliott Tata Group

Steve Everett TMX Group Limited

Juerg Unger Swiss Re Ltd

Sandra Ro The Global Blockchain Business Council

Abiko Ryosuke MUFG Bank, Ltd

John Andrew O'Brien Citi

Richard Simon Shepherd MYRIAD Technologies Ltd

Hema Cederhage The Mauritius Commercial Bank Ltd.

Shuta Okawara MUFG Bank, Ltd
Thomas Small U.S. Bank, N.A.
Daniel Slenders Accenture Plc

lan Pledger BNY

Gilles Papadopoulos Swiss Re Ltd

Terry Gibson Archax Holdings Ltd

Anna Matson Northern Trust Corporation

Kelly Mathieson Digital Asset Holdings, LLC

Smratee Jain Deutsche Bank AG

FergalKeaveyNorthern Trust CorporationPedroWajchman MoriyamaB3 Brazilian Exchange and OTC

Juergen Hofbauer Taurus

Richard Young Bloomberg LP

Herbert Barth NowCM Vassili Lavrov Taurus Michele Pitts Citi

VicArulchandranDeutsche Börse GroupLouiseWaterhouseTMX Group Limited

Thomas Koehler Hong Kong Exchanges and Clearing Limited

Peter Hubli Zürcher Kantonalbank
Yan Lam CMU OmniClear Limited

International Securities Services Association



Miguel Espinoza Montran

Alexandre Kech Global Legal Entity Identifier Foundation GLEIF

SteveBriscoeClearToken Holding LimitedSvetlanaJavakhyanState Street Corporation

Cécile Kougblenou **BNP Paribas S.A.** Romuald Morel BNP Paribas S.A. Hakim Harrach **DZ Bank AG** Marco Rodrigues BNP Paribas S.A. Durif BNP Paribas S.A. **Thomas** Jaikishan Kumar Deutsche Bank AG Vera Gligoric Royal Bank of Canada

Malte Zellmer DZ Bank AG

David Khachidze Acupay System LLC

Mariano Graf von Plettenberg DZ Bank AG Fabian Schwiering DZ Bank AG

Daniel Le Deutsche Bank AG

Jerome Andrews The Depository Trust & Clearing Corporation

Qian Jiang SWIFT SCRL

Piyush Vaishnav Deutsche Bank AG

Gagan Arora S&P Global Rakesh Mahajan S&P Global

Reggie Clothier Rand Merchant Bank - Custody Services

Ganesh Borse Deutsche Bank AG

Valerie Potsch Landesbank Baden-Wurttemberg

Orla Aherne BNY Mellon Erik Veerman ABN Amro

Satish Maramreddy Citi

Michael McPolin Broadridge

Martin Matkins Archax Holding

Abiko Ryosuke MUFG Bank

Hari Chaitanya Standard Bank of South Africa

Email: issa@issanet.org



Agenda

- 1. Snowflake Presentation
- 2. Status of Volunteers for Substreams: Digitization; DLT in the Real World; DLT Use Case Collateral; Working with Big
- 1. Snowflake - Nathan Attrell, Lead for EMEA Financial Services at Snowflake

Key Points Addressed

- Glen introduced the speaker from Snowflake - Nathan Attrell, who set the agenda of his presentation (his slides
 are available on the WG Members' site) as follows:
 - Snowflake Overview
 - Snowflake Data Sharing
 - Snowflake Service Providers/Securities Services

Snowflake Overview

- Snowflake clients were moving to the Cloud and in many cases multiple Clouds and ran into the problem of Sharing Data between divisions and with their clients and partners. How could this be solved?
- Often these clients had different best-of-breed technology stacks for Front, Middle and Back Office and needed data interoperability amongst them to replace constantly moving copies of large data sets around, often via old FTP technology, into multiple locations which is problematic and creates many breaks requiring manual intervention and the need for significant reconciliation.
- Then add on the problem of sharing data from all those locations with clients and partners.
- Snowflake was developed to solve these problems and provide a single Data and AI Platform.
- What should a Data Platform in the Cloud Look Like?
- One platform, cloud native, automatic scaling, limitless compute, SaaS, supporting SQL, Python, Scala and other languages, pay for what you use, security by design.
- Data Sharing between company divisions and with permissioned external entities via a Data Sharing Marketplace
 organized around the concept of Data Sources and Data Consumers able to query data and run analytics at scale –
 removing the need to physically move data around, no more copies of data, stale data, data pipeline management
 and manual intervention.
- Clients pay only for what they use.
- Works across all leading Clouds including AWS, Azure, Google, via a single platform.
- Clients focus on the quality of their data and Snowflake enables all the sharing and analytics and provides Generative AI Tools to enable your data to be read by the various LLMs – all hosted within the same governed data perimeter and platform where your data resides (no external calls, no IP leakage, no need to create separate vector dbs.

Email: issa@issanet.org



Snowflake Data Sharing

- Seamless query ready, entitlement access
- Privacy and robust Data Governance
- Can share data, objects, functions and applications internally and externally
- Share data across all leading Cloud Providers
- Leverage leading data analytics applications in the Cloud as well as build native applications of your own in the Cloud
- \$1 billion in quarterly revenue

Snowflake Service Providers/Securities Services

- Ecosystem includes:
 - Data Providers
 - o ESG Data Providers
 - Private Assets Data Providers
 - Digital Asset Providers
 - Master Data Management Providers
 - Investment Manager Data Platforms
 - Custody/Securities Services Providers
- Data sharing removes ETL, reduces data engineering needs and has delivered a 90% reduction in TCO for data ingestion.
- Securities Services segment was added at the request of their investment manager clients so they can see all data from all custodians for their institutional investors in one place; Snowflake participation has become a key part of investment manager Custody RFPs.
- Snowflake has advanced through providing Data Sharing, capabilities, then to providing clients with Data Applications and now enabling firms to securely package up their IP / code / business logic (eg data models, risk and quant models) as Native applications that their clients can deploy and run inside the client's own snowflake instance against the client's own internal data as well.
- Snowflake's Data Applications vehicle for firms to builds on client applications on Snowflake enables commercial outcomes in three areas:
 - o Transform & Retain: Replace APIs and Exports via Data Sharing
 - Product Enhancement: Monetizing access to data with embedded analytics
 - New Products built in the Cloud and delivered into the Client's Platform
- And now, AI Data Cloud functionality with many Use Cases.
- 80% of Data Shares are private and bilateral/20% of Data Shares are via the marketplace.
- Nathan described how data sharing had reduced data ingestion and data engineering costs from \$2.4m to \$200k
 in one specific use-case.
- Nathan provided some featured Client Use Cases including DTCC's provision of fixed income and equity data products through Snowflake's Marketplace, and data sharing between DTCC and participants that has reduced a 2-day round trip and processing time (excel files, pdfs process) to Snowflake data sharing roundtrip and processing to 5 minutes



- The prevalent Use Cases are around:
 - Risk Analytics
 - o Regulatory Reporting
 - o Financial Crime Compliance
 - \circ FSC
 - Quant/Analytics
 - Valuations
 - o Portfolio Construction and Analytics
 - o Fraud Prevention
 - Pricing
 - o Digital Assets: Snowflake is not a DLT but does share data with DLT Providers

2. Status of Volunteers for Substreams: Digitization; DLT in the Real World; DLT Use Case – Collateral; Working with Big Tech

Key points Addressed

Colin, Glen and Steve showed a slide deck with current co-chairs and members of the four substreams. *In red font, we call out for WG members to please volunteer to join these teams.*

Year of the DLT in Real World Survey - - Chaired by Glen Fernandes

- In conjunction with Value Exchange
- Sponsors to be identified (Barney and Colin) volunteers?
- Longitudinal view so changes rather than re-write
- o Needs to capture new trends in questions but at the margins
- There are 8 WG members in the Substream.
- o Big group to push within their organisations to complete and increase validity yet further.
- o 2025 February April design, May June deployment, September publish
- Survey data is completely aggregated/250 firms answered the last survey

Digitalisation – Completion - - Co-Chaired by Michael McPolin and Ian Pledger

- Outline published - What is currently not digitised and what of that should be?
- Data collected in last year's survey
- HKEX providing a Use Case example
- WG Members needed to:
 - Complete drafting
 - Incorporate additional client service examples particularly C/I and C/X
- o 2025 Feb May document creation and revisions, June publish

Best Practices for Collaboration with Big Tech - - Chair Glen Fernandes

- Presentations have shown:
 - Risk management needed especially ability to avoid lock-in and data security
 - Multiple future models of working possible
 - Ensuring service provision does not fall within regulated activities
 - Value accretion models vary



- WG Members needed:
 - Start drafting including the correct chapters
 - Experts per theme thereafter
- o 2025 Feb October document creation and revisions, year-end publish
- DLT Use Case #1 Supporting Securitisation and/or collateral management - Chair Steve Everett
 - o Examples of various use cases using DLT for securitisation and collateralisation
 - Lessons learnt from these use cases (positive and learning experiences)
 - o WG Members needed:
 - Start drafting including the correct chapters
 - **Experts per theme thereafter**
 - o 2025 Feb September document creation and revisions, November publish
 - o This would potentially be the first in a number of DLT Value Chain Transformation examples

AOB and Close

Going forward, we will have monthly meetings featuring updates from the four teams and a presentation by an interesting provider.

No other business raised. The meeting was then closed.

Summary of Follow Up Actions

No.	Action Description	Responsibility	Deadline
1.	Join the four teams/topics	WG Members	By 16 April