



# Navaera On-Demand Solution Architecture

For CW Bank

we make business better with knowledge

2/26/2021

# Agenda

- About Our Solution
- Transaction Processing
  - Batch Analytics Rules
  - Real-Time Analytics Rules
- Questions

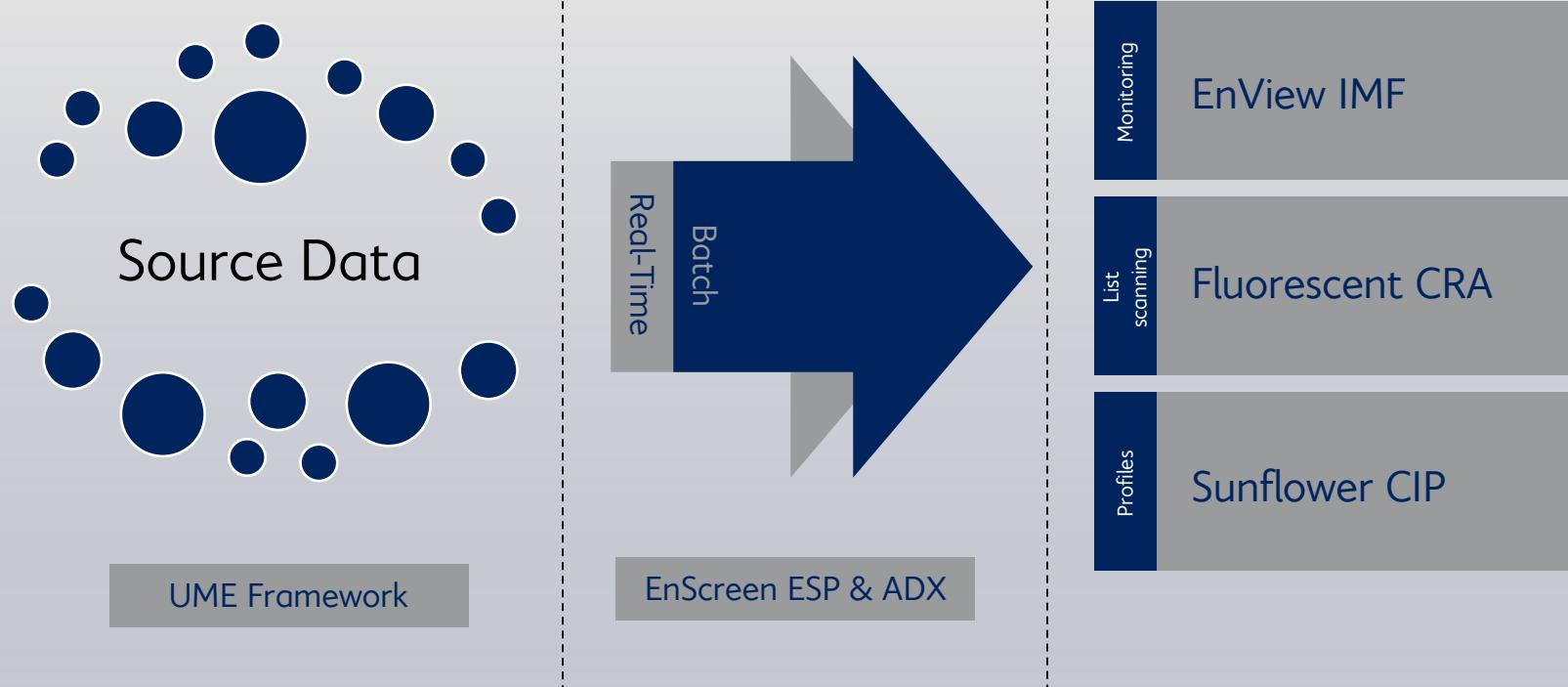


## About our Solutions

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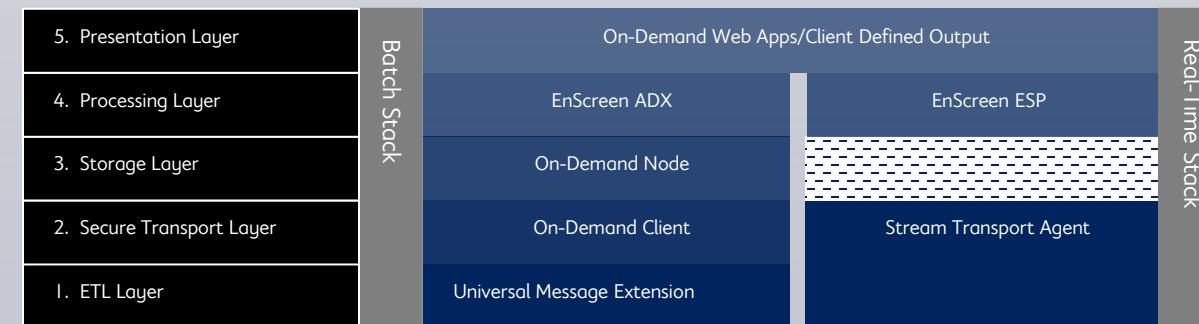
# About our Risk Management Integrated Solutions

Navaera's risk management integrated solutions, including AML On-Demand Risk leverage our component technology solutions to create focused, unified bundles that are fully supported by Navaera from data extraction to user interaction. Since our solutions leverage Navaera technologies at each control point, we are able to provide world-class responsive support.



# Navaera On-Demand Technology Stack

- The Navaera On-Demand system is comprised of a five layer stack that contains specialized components for batch or real-time processing:
  - Our **ETL Layer** enables us to connect to any JDBC compliant data source to create batch revision messages. We can also generate, or receive real-time data for direct processing;
  - Our **Secure Transport Layer** enables the secure transmission of large batch revision messages or the transmission of real-time data via secure socket connections;
  - Our **Storage Layer** enables batch data to be stored in a simplistically dimensionalized data store that improves reporting and transaction monitoring capabilities;
  - Our **Processing Layer** provides two specialized engines for batch and real-time analytics; and
  - Our **Presentation Layer** provides numerous user-friendly options for the display of incidents, events, and reports from both our batch and real-time processing engines.





# Transaction Processing

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## About batch data analytics rules

EnScreen ADX 

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## About Batch Processing

- EnScreen ADX is Navaera's batch data processing engine. It processes large volumes of stored data;
- For AML and Risk Management solutions, it is the engine that performs historical analysis, including:
  - Prescriptive Reporting;
  - Historical Activity Profiling;
  - Red Flag Rule Analysis; and
  - Customer Risk Rating
- Each type of analysis is performed by a specialized 'Scheme' that is configured within the engine.

# How EnScreen ADX Schemes Work

- Each EnScreen ADX scheme has three separate processing phases, which include:
  1. A data filter task;
  2. A processing task; and
  3. An output task.
- Navaera maintains a standard library of batch Schemes that detect known ML and fraud topologies.

1

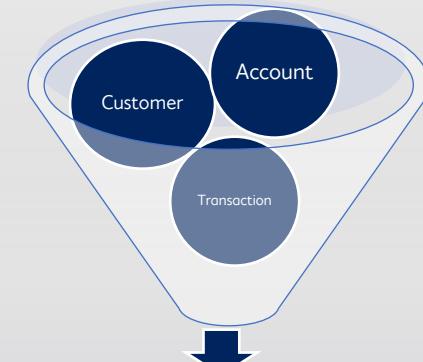
Before analysis is performed, the Scheme ingests data that has already been transported and has been stored. This process is called the 'Data Filter Task' and here we only ingest data required for analysis.

2

Each Scheme performs a fixed-form of specialized analysis based on the input data. Some Schemes (like risk rating) just output results. Others identify detections (like red-flag rules)

3

Events (if applicable) are made available later for review in a user interface. Detections may be grouped by Customer for a complete review of detected items for the customer during the time period analyzed.



Alert/Event Output





**About real-time data analytics rules...**

EnScreen ESP 

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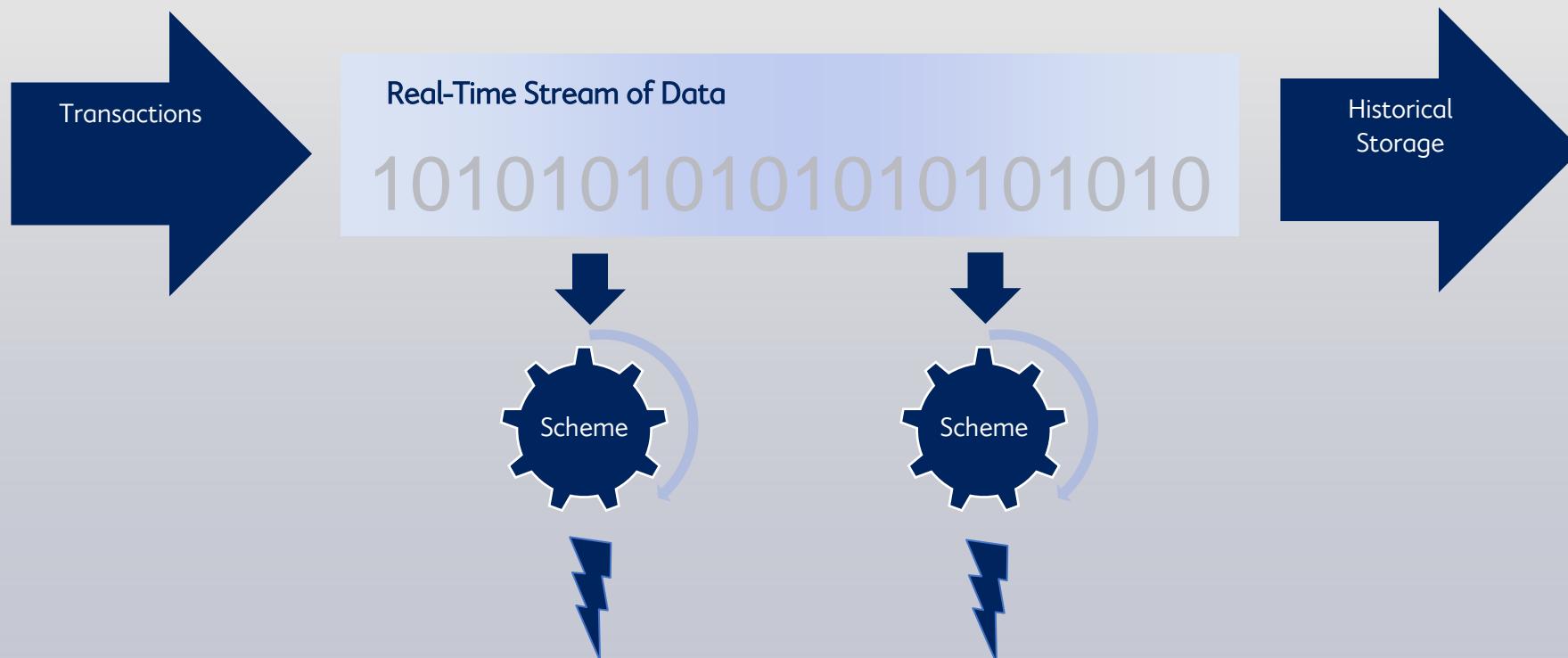
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## About Real-Time Processing

- EnScreen ESP is Navaera's real-time data processing engine. It is a high-performance data processing engine that analyzes streaming data.
- For AML and Risk Management solutions, it is the engine that performs real-time analysis, including:
  - Real-time name screening for wire blocking;
  - Card Fraud;
  - Online Fraud; and
  - Deposit Fraud.
- Similar to EnScreen ADX, each type of analysis is performed by a specialized 'Scheme' that is configured within the engine.

# How EnScreen ESP Schemes Work

Unlike EnScreen ADX, the ESP engine does not principally analyze data at rest, but rather analyzes data in a stream, or ‘flying data.’ In other words, where ADX runs a query on stored data and analyzes its output, EnScreen ESP continuously runs queries on data as it flies by.





# Questions?

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