

TALTIO - Tietovaraston tekninen esittely

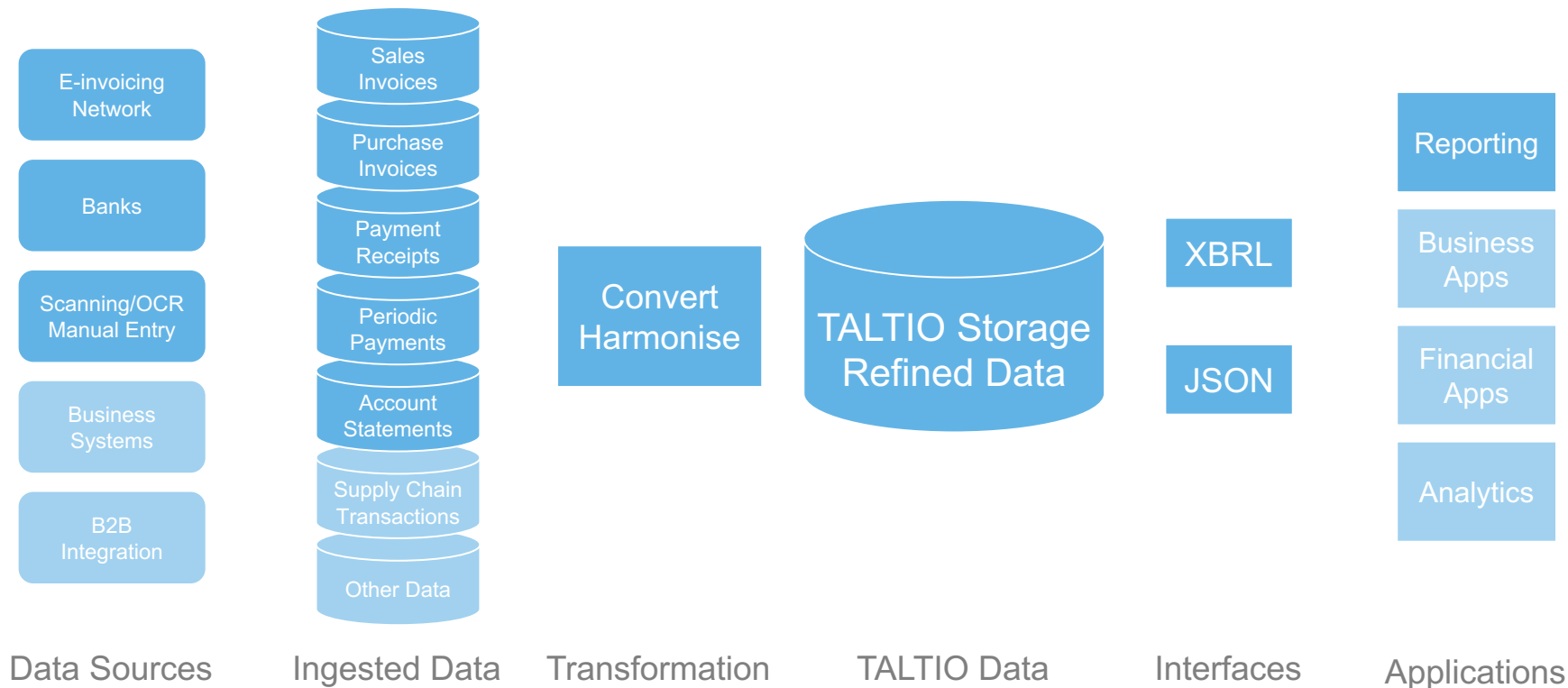
TALTIO seminaari
Helsinki 12.9.2017

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TALTIO – Data Lake Approach



TALTIO – Data Storage

- Logical data model in TALTIO is simplified into a tabular form consisting of documents and data element names for those
- Each ingested transaction is described as a document, created e.g. from an invoice row
- TALTIO data content from each ingested transaction type is described using the same data element names
- TALTIO documents are linked to ingested original data for additional information not available in the TALTIO data storage

TALTIO – Logical Structure

- TALTIO data content is described using in total 30 – 40 data element names
- Any corrections and additional document information, like discounts, are expressed using additional documents
- A miniature snapshot

Document type	Document type description	Document number	Document date	Tax amount	Tax percentage rate
invoice		551	2017-08-04	19.35	24.00
receipt		23920	2017-06-07	0.69	14.00

Implementation considerations

- TALTIO data storage should be accessed using API services hiding any implementation details in the data storage
- NoSQL technologies are well aligned with the data lake approach containing both raw ingested and refined data
- The Nordic Smart Government TALTIO POC implementation is based on MongoDB and REST APIs with XBRL or JSON data formats

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