

The Challenge - Inaccurate Inventory

The Customer required a solution for the reconciliation of provisioned circuit inventory data with the actual circuit configuration in the network. Their Cramer inventory system had been manually populated with 2Mb and C7 circuit information over a 6 month period. By the time the population had been completed, the network configuration had changed and the inventory data could not be relied upon.

The intention was that after each reconciliation the differences would be manually corrected in Cramer. This cycle of reconcile-correct would be repeated until the set of differences was acceptably small. The business driver for this work was to realise a better ROI for their Cramer system and to maximise the existing capacity in their network.

The Solution - Dataduct Concert

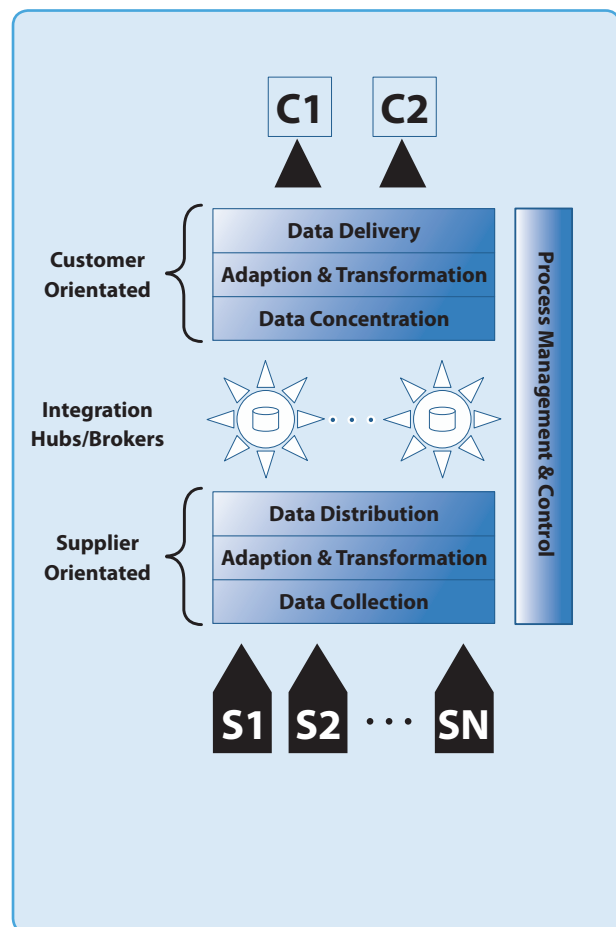
The Customer was seeking a product-based solution. It was recognised that only through the use of product could key economies and benefits to the business be realised. These included,

- a single way to monitor and administer the reconciliation solution and other data mediation solutions
- reliability, stability and confidence of pre-tested and proven software
- economies of solution support reducing Opex

Managed Solution

Dataduct delivered a product-based integration solution consisting of a mediation platform and a set of pluggable Invobroker® gateways. The platform already hosted mediation solutions for the integration of OSS data with the customer's Fault Management system. Dataduct gateways all share a common architecture. They are configured towards standard or application specific data models and protocols.

An Ericsson MML compliant gateway was used to connect to multiple switches and transform the circuit connectivity data before persisting it in a data hub. Extracting 2Mb circuit data required the execution of 4



sets of MML commands against the switches. The output of each set of commands was used to parameterise the next set of commands. This meant that the commands had to be run sequentially and be dynamically configured by the MML gateway. 5 sets of commands were executed to extract C7 circuit data.

In order to provide reconciliation services to Cramer a dedicated inventory-specific gateway was employed. This application gateway was responsible for reconciling the Cramer circuit state with the network configuration as stored in the circuit data hub.

The Cramer data was extracted using a business object exporting utility that exported the Cramer circuit data to a set of CSV files, one per switch per circuit type.

