

Asia Pacific Telco Embraces CR-X

One of Asia Pacific's largest Telecommunication Carriers has embraced CR-X as part of its Fraud Detection Regime.

It utilises CR-X as a Pre-processor and ETL tool, providing complementary functionality to their core Fraud Analytics Application. This functionality is provided on a low cost commodity platform, handling many tens of millions of rated call records per day currently and prepared to address future volumes of hundreds of millions of records in the near term.

The Carrier has commented that CR-X is particularly well suited and architected to provide the diverse range of functions required at the high transaction rates that they encounter and is their preferred platform of choice over conventional ETL / EAI environments.

The CR-X Fraud Pre-processing system filters call transactions from fixed and mobile rating engines as well as processing customer and related details from upstream Billing systems. All data loaded into the pre-processor is accepted and then re-formatted, thereby removing the need for core billing system changes when new types of fraudulent behaviour are detected. This functionality updates statistical tables and performs on-the-fly record enhancement (e.g. attaching customer details to usage records) from massive, in-memory lookup tables.

CR-X manages the transaction load on the fraud analytics processor by dynamically withholding low-risk transactions. These restraints are lifted when certain business-defined thresholds of cost or frequency are breached. Once thresholds are passed, withheld calls (stored locally) are extracted and resubmitted into the fraud analysis stream.

Using its powerful file interfacing and conversion functionality, CR-X is able to interface to a diverse range of the Carriers' record types sourced from multiple billing systems, converting them into a standard form for fraud analysis. This approach minimizes the delays and costs incurred when making changes to upstream billing or downstream fraud detection platforms.