



Accurate error detection for the end-to-end billing process

Syniverse Revenue Assurance

Accuracy of subscriber billing can only be achieved when every billable event is correctly processed. This requires mobile operators to correctly provision services across each network element within complex back-end office systems, including business support systems (BSS) and operations support systems (OSS), from the switch, through all intermediate systems, to billing and invoicing. In order to ensure the integrity of revenue processes, you must compare and reconcile data inputs and outputs among the various elements and systems in your processes to identify discrepancies.

Syniverse Revenue Assurance - CashBack enables you to pinpoint billing errors through a comprehensive data-matching capability that allows you to identify and categorize incorrectly matched data. It provides a comparison and reconciliation capability that helps you to understand the process flows within your network, BSS infrastructure and OSS infrastructure. Six modules are available to provide a solution to address your specific business requirements:

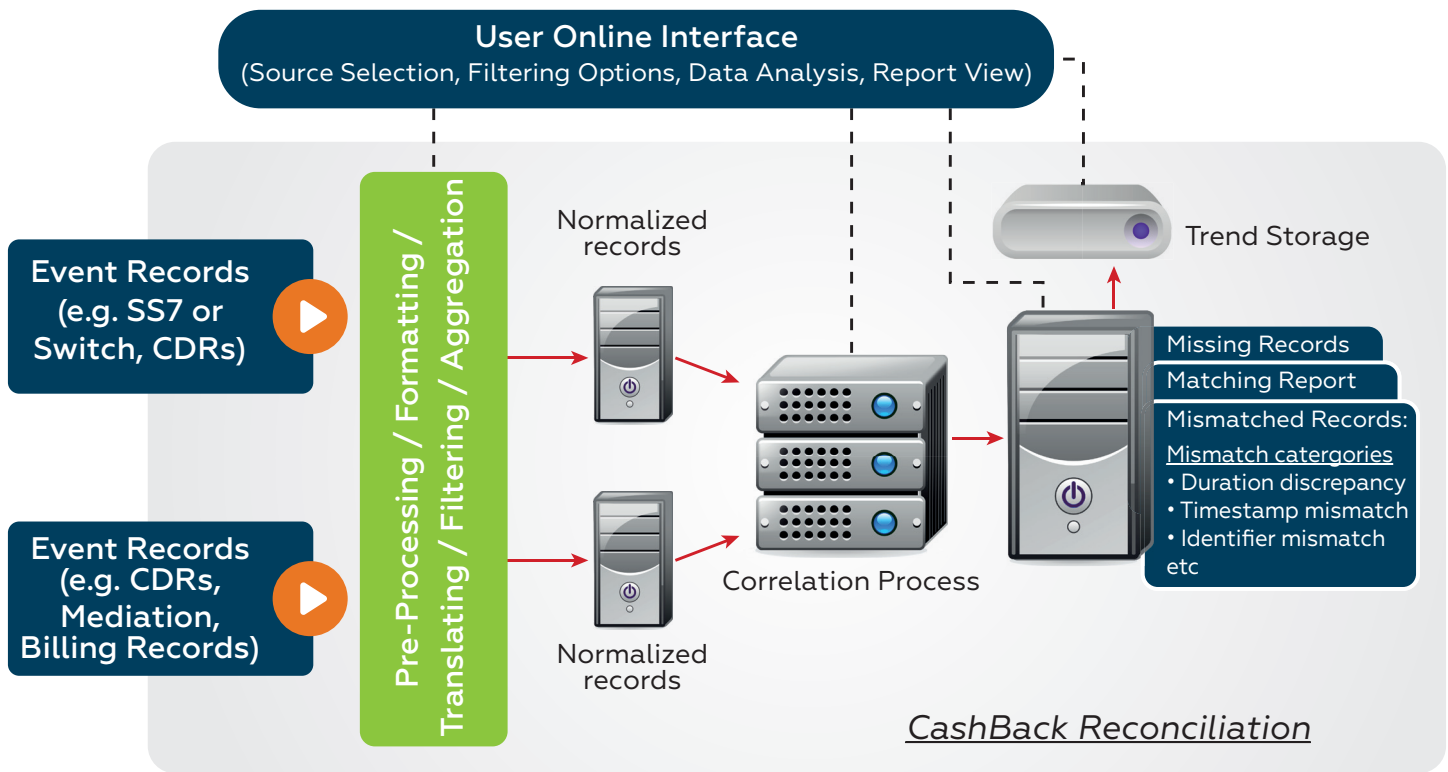
- Usage Assurance
- Rating Assurance
- Partner Assurance
- Interconnect Assurance
- Subscription Assurance
- TAP to NRTRDE (T2N) Reconciliation

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Uses



Benefits

Syniverse Revenue Assurance simply and quickly prevents revenue leakage. The solution can be provided as either a cloud-based service or deployed on your premises as a turnkey solution based on your specific investment and implementation requirements. It provides these capabilities:

- Protects revenues by quickly detecting problems through automation, which eases and speeds the task of discrepancy analysis.
- Enables you to identify and resolve issues rapidly by detecting data mismatches through dashboards, alarms and online reporting with drill-down capabilities.
- Adapts to your specific purposes to perform at its optimal level. Dashboards, configurable threshold definitions, multiple user levels and network configuration options help automate common processes and simplify use of the system.
- Minimizes losses with the use of alerts that show errors that exceed configurable thresholds.

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Features

The following features support each of the six Revenue Assurance modules:

- Dashboard
- Administration
- Security
- Case management
- Rule definition
- Reporting
- Mediation
- Traffic trend comparison and alerting.

The six modules include the following:

1. Usage Assurance

Parallel data streams are compared and analyzed to identify mismatches and potential matches (partial matches):

- **Event records generated in the network by subscribers:** CCS7-monitoring systems, mediation devices, switches, routers, etc.
- **Event records generated in other parts** of the process and by the billing system, HLR data, configuration tables, etc., indicating which call and event records have been assigned to subscribers and which events are unfit for billing.

The module exposes unbillable event records that are either in error or lost anywhere in the switch to the billing chain. By categorizing the cause of mismatches, Revenue Assurance facilitates root cause analysis.

Usage assurance provides control and monitoring of throughput, quality, and completeness through the end-to-end process.

2. Rating Assurance

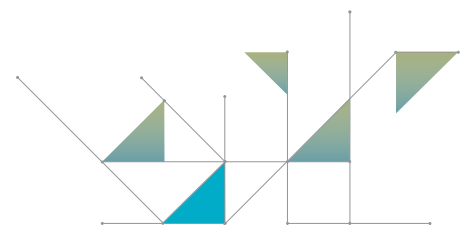
- Rerates xDRs and reconciles the rerated xDRs with rated xDRs from the billing system or intelligent network (IN) platform.
- Identifies rating errors and wrong configuration of rate and price plans in the billing system or IN platform.
- Simulates different tariff models, providing unlimited rate plan option comparisons.
- Models tariffs and executes statistical rate-check functions on the data. This allows you to model and visualize the rating of multiple different xDRs. Illogical rating can be detected using configuration checks.

3. Partner Assurance

Analyze the accuracy of data used for partner billing, including interconnect partners, content partners or roaming partners. Reconcile network call and event records with billing records from partners. Data can be used for dispute resolution.

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4. Interconnect Assurance

- Reconciles multiple interconnect data sources supported by configurable converters and filtering rules, rating, trending, reporting and dashboards.
- Provides automated reconciliation for the end-to-end interconnect revenue stream, with pre-configured modules that can be customized to adapt to the network setup.

5. Subscription Assurance

Ensures that all subscribers and services are being provisioned through a legitimate provisioning channel:

- Checks for any shortcut or fast-track processes
- Detects unauthorized update of customer status
- Detects improper update of systems based on change in customer status.

Checks and validates provisioning information in the billing system or other provisioning support systems:

- Checks illogical or overprovisioning
- Detects provisioning without notification of billing start
- Identifies over-budget provisioning.

6. T2N Reconciliation

Provides a TAP-NRTRDE (Transferred Account Procedures-near-real-time roaming data exchange) module that reconciles TAP file data with NRTRDE data. This service is typically provided as a cloud-based service but can also be offered for on-site deployment. It can be used to identify these events:

- Missing TAP records or files
- Missing NRTRDE records or files
- Duration mismatches
- Timestamp mismatches
- Discrepancies in other mandatory fields used for billing, (MSISDN, IMSI, etc.).

**Get Started
Today!**

Syniverse is a global mobile solutions specialist that connects more than 1,500 mobile service providers and consumer companies in nearly 200 countries. We specialize in enabling the world's mobile users to connect with each other regardless of device, network or location. Our advanced cloud-based solutions deliver superior user experiences through always-on services and real-time engagement. For more than 25 years, we have been simplifying complexity to deliver the promise of mobility – a simple, interoperable experience, anytime, anywhere.

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