

Telesens Revenue Assurance

Income guarantee systems.



Quality control of recording information about calls, processing, and data transmission at all operators' income formation stages.

Revenue Guarantee Systems detects, localizes, and prevents losses caused by inconsistent and incorrect operation of systems at each stage of operators' revenue generation.

Operations to identify losses and guarantee revenues are implemented on

the revenue management integrated approach basis:

- Data collection comes from all systems involved in providing services and generating revenues.
- Data transformation (processing) for RA goals.
- Routine or interactive data analysis to identify inconsistencies, hidden patterns, and trends.
- Timely reporting information provision in a form convenient for decision-making.
- Development of the recommendations to eliminate the identified income losses and automated data correction in the enterprise information flows.

The T-RA system is built on

the collecting data principle from various points of the complete making-profit chain and comparing/verifying it. If a discrepancy is detected between information flows, a message is signaled about possible losses or incorrect operation.



The revenue collection system functionality

01

Source xDR files control

- The credentials formats correctness control, empty files, and incorrect xDRs detection.
- File Sequence Check.
- Monitoring and comparative operational analysis of the traffic amount consumed by data sources.

02

Exception control

- Detection, analysis, and correction of exceptional situations.
- Exceptional situations control by categories and technological cycle stages.
- Event monitoring with automatic notification capability.

03

Credentials and traffic (services) volumes cross-system checks

- Uploading aggregated and detailed data to RA database (data import from billing systems, Mediation, and Provisioning systems).
- Configuring cross-system data validation rules.
- Rule-based data validation, discrepancy alert.

04

Traffic analysis

- Control of traffic volumes and network load.
- Traffic volumes and costs daily monitoring (by connection points, operators, directions).
- Daily assessment of the processed traffic cost by operators and comparative income analysis.
- Control of each account position with the ability to analyze the results down to individual calls (top-down results analysis of an aggregate check to a detailed reconciliation at the xDRs level).
- Search for specific calls by any parameters.
- Services quality assessment by destinations and routes.

05

Roaming data analysis

- Statistics maintenance of provided roaming services, determination of KPI.
- NRTRDE files formation.

06

Provisioning control

- Network service provisioning control.

07

Working with problems

- Maintain performance data of operations and processes.
- Comparative analysis of performance with previous periods and objects.
- Alarm generation to quickly detect network problems and poor performance.
- Income leakage accident generation based on KPI trends.
- Maintaining a database of identified problems and accidents, tracking problem resolution status.

08

International traffic routing control

- the actual routing on international switches.
- International price lists control for data inconsistency.
- Optimal routing control.
- Unprofitable routes identification based on the entered price lists.

The Provisioning Control and International Traffic Routing Control subsystems are optional (not mandatory).



09

Income and expenses analysis

- Automated audit of accounts (comparative analysis of declared and settlement data, control and search for data on disputed account positions).
- Reconciliation automated procedures of the detailed data of the missed traffic.
- Keeping statistics on the results of resolving disputes with partners.
- Consolidated report formation on income and expenses for the period.
- Data import on incoming payments.
- Accounts receivable analysis.

10

Real-time KPI monitoring and support for statistical data dashboards

11

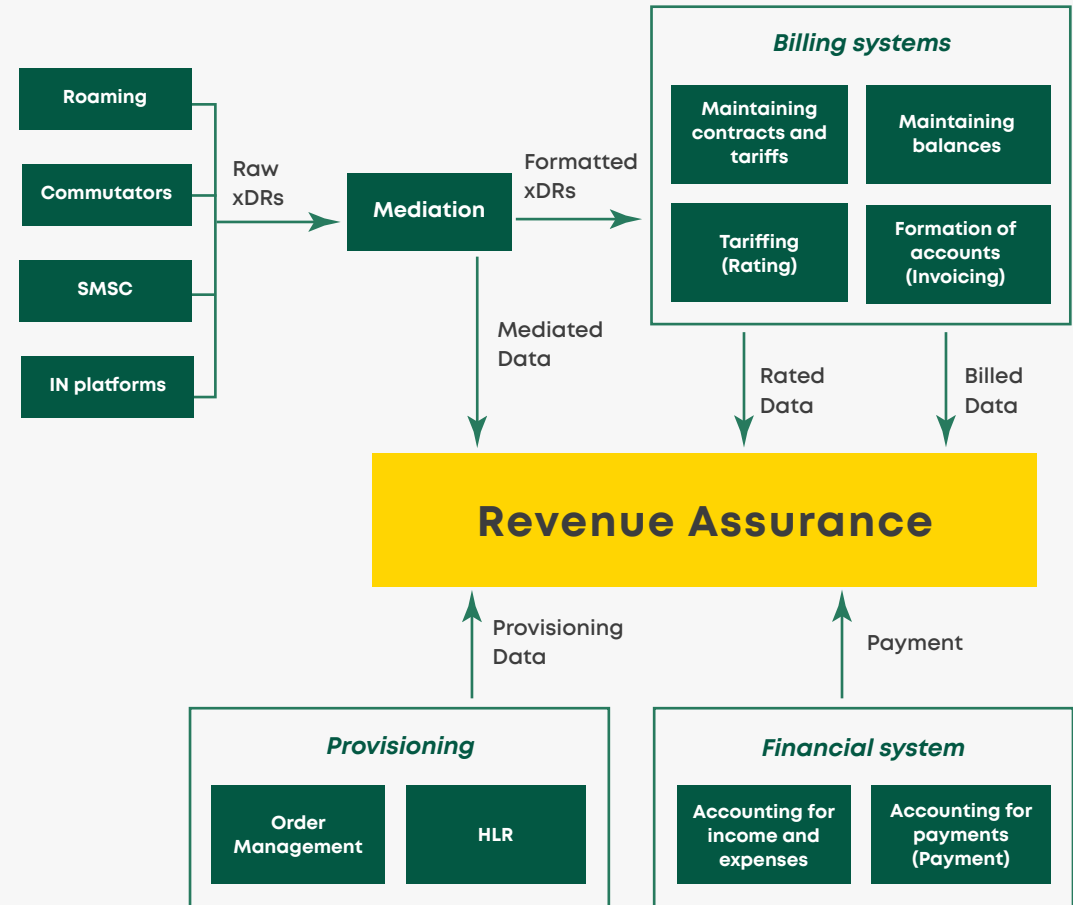
Reports formation

12

System administration



Interaction of RA systems with other users



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