





- 1 Trends in Interconnect Settlement
- 2 Impact of such Trends On Telecom Operators
- Challenges in combating the Interconnect Settlement
- 4 Need for Change!
- 5 How Mobileum can help Operators



Trends – Interconnect Revenue Management













TRUST

MNO increasingly using Interconnect carrier's Invoices and their CDRs for reliable billing

REVENUE SQUEEZE

- Reducing termination charges e.g Increasing regulation impacts (EU roaming, etc.)
- Unlimited plans
 More pressure

NEW PARTNERSHIP SERVICES

Data & content
M2M operations
IoT growth &
development
And complex plans

ADVANCE ANALYTICS

- Multi dimensional reporting & Invoices
- Predictive
 Analytics to reduce cost, ensure
 profitability

DELIBERATE ABUSE

Targeted
manipulation of
Interconnect
Arbitrage, bypass
and traffic refiling

QUICK SETTLEMENT

Increased pressure to reduced the settlement cycle to realise value early



Impact Of New Trends: Interconnect Revenue Management A Continuous strain on the to

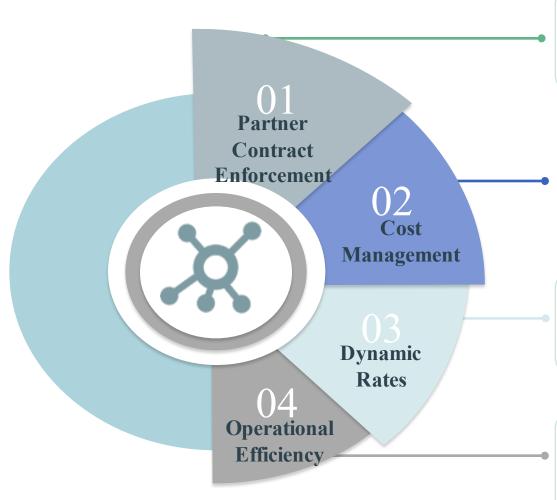
Re-Imagine critical existing functions

A Continuous strain on the topline Increasing pressures on costs Overall reduced Margins

- ➤ Automated Rate trend analysis and profitability estimation
- ➤ Monitoring Volume commitment and Profitability.
- Margin analysis

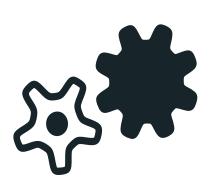


- > Rating inaccuracies and misclassification of traffic
- ➤ Automated processes for dispute identification and settlement
 - > Dynamic partner rates
 - ➤ High volume of partner data makes Cost/Revenue analysis
 - Reduce Delays and errors in manual configuration of rates.
- ➤ Integrated approach to overcome complex and silo processes/systems.
- > Routing decisions without data driven intelligence





Challenges in Coping to New Trends







INTERCONNECT AND PARTNER TEAMS HAVE LIMITED RESOURCES

Reliance on other internal teams or vendor systems to provide oversight

3rd party teams have different responsibilities and targets

REVENUE IMPACTS THROUGH ABUSE AND MISCONFIGURATION

Revenue loss from incorrect charging, pricing and billing

Impacts of abuse and misuse of services

Targeted arbitrage impacts from CLI-refiling, Bypass, etc.

DATA AVAILABILITY & ANALYSIS CHALLENGES

Information from generic data warehouses.

Manipulated mediated and edited (delayed loading)

No Real time analytics and predictive capabilities to adapt to changing business environment



Interconnect Risk Manager (IRM) – Value Deliverables





Analyses records from across the CSP in order to detect revenue leakage or margin issues, as well as detect and manage deliberate acts of arbitrage or threats to revenue

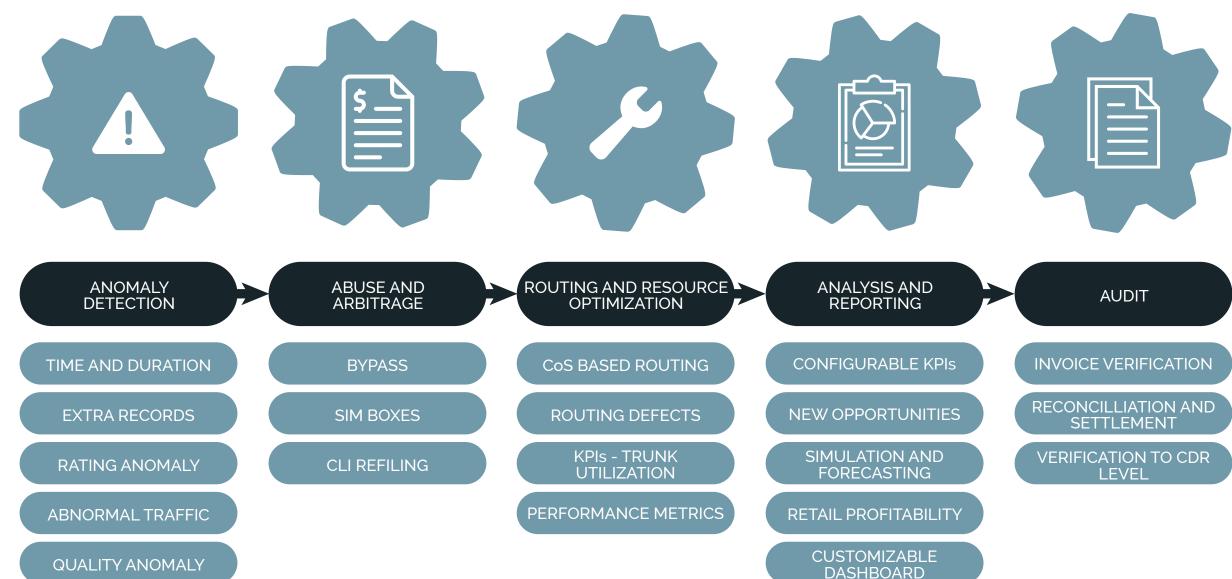
Advanced Analytics driven technology enables quick reconciliation - multi dimensional reporting & Invoices, forecast and simulation to understand traffic trends.

Automated actions, margin assessment, forecasting and simulations help take better informed decisions

Delivers value to all stakeholders, network operations team, wholesale and settlement team with a microscopic view of route and traffic data and highlighting any invoicing discrepancies.



IRM – Capability And Functions





Domestic and International Long Distance
Usage Summary

Terminating Countries and Providers

Retail Charges vs Carrier Cost

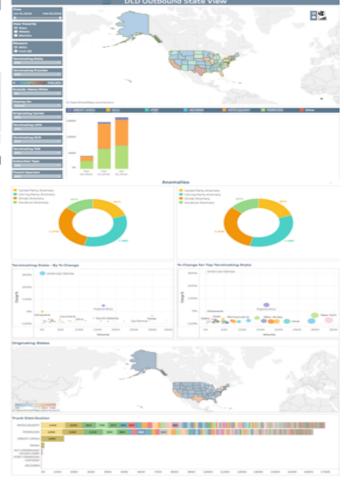
Mismatched records by billing type

Anomaly Count and Distribution

Spurious number report

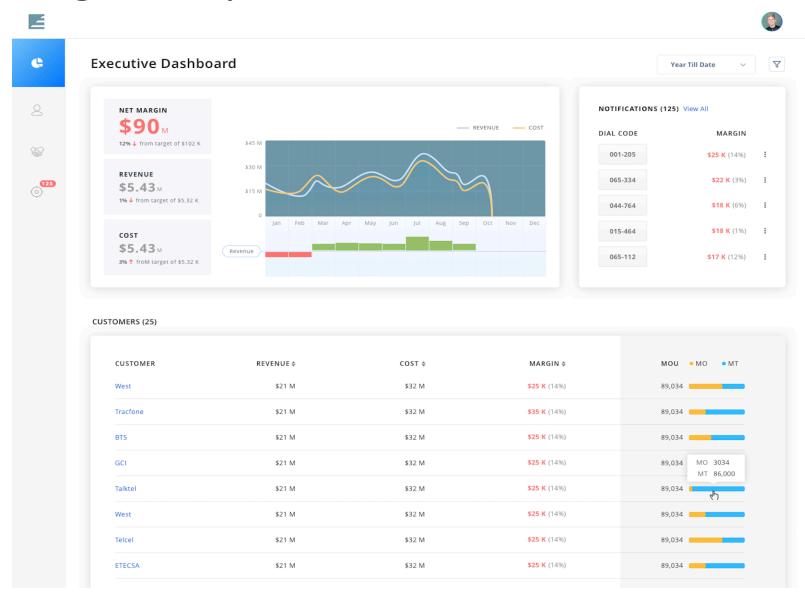
Margin Analysis







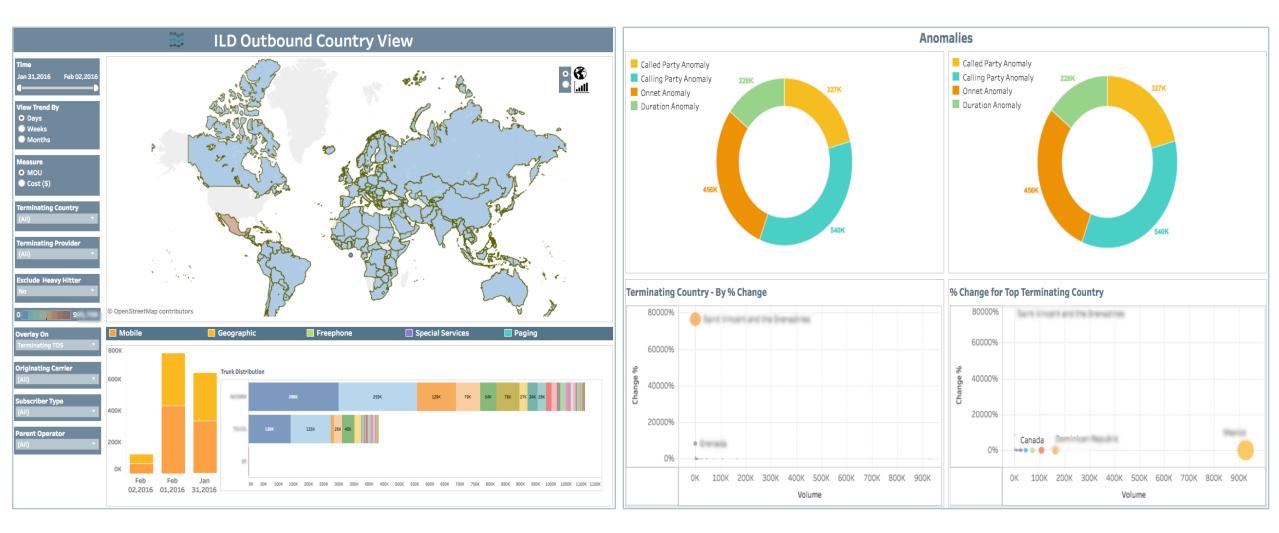
Margin Analysis





Multi-level Drill-Down





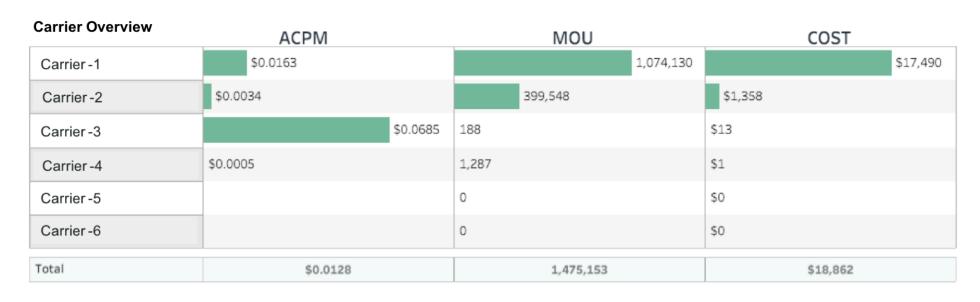
International Long Distance Drill-Down





Carrier-Wise Analysis

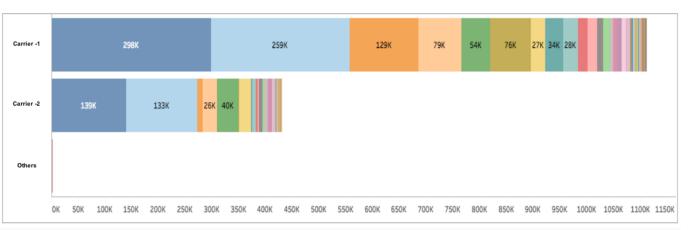




ACPM - Day wise



Trunk Distribution





CASE STUDY





OPERATOR CHALLENGES

Pressure to reduce wholesale costs

Audit and Reconciliation crippled by Manual Processes

Revenue leakages due to anomalies and frauds

Lack of relevant and timely insights for future planning

KEY RESULT AREAS

Learning
Invoice, Audit, Verification and Reconciliation
Anomaly and Fraud detection
Traffic forecasting, Retail Profitability and Recommendation

Analytics and Reporting supported by Big Data and Machine

VALUE ADDED

Detected and proactively curbed revenue leakages
Streamlined the Wholesale Interconnect RA process
Automated the Reconciliation
Maximised Margin
Complete View of the business
Identified New Opportunities

