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TELECOM INFRASTRUCTURE

SEAMLESS CROSS-COUNTRY MIGRATION OF A LIVE BILLING SYSTEM

Status: Successfully migrated and fully operational

Challenges

The client, a large passive infrastructure services provider, needed to migrate their entire live billing application ecosystem from one geography to another—without disrupting monthly billing, revenue cycles, or customer operations.

- Migration of a live and business-critical billing application with minimal downtime.
- Ensuring zero functional gaps between the old environment and the new setup.
- Requirement for complete data validation across rating, invoicing, and reporting functions.
- Need for automated, repeatable processes to minimize deployment risks.
- One-week window to set up UAT and Production environments in the target location.

Results Delivered



Seamless migration of live billing systems



Zero impact on ongoing billing operations



100% validated data accuracy through end-to-end testing



Automated scripts ensuring error-free deployments

The Solution

Proeffico executed a highly controlled migration strategy powered by strong QA processes and automation:

- **Rapid Environment Setup:** A complete replica of the billing application suite was installed in the new location, and detailed SOPs were created to achieve UAT and Production setup in under one week.
- **Maximized Regression Testing Coverage:**
 - A full month of production billing data was validated end-to-end.
 - Every rating, invoicing, taxation, and reporting workflow was tested.
 - Automated test suites were used for faster execution and repeatability.
 - Manual and exploratory testing ensured business rule accuracy.
- **Automated Code Extraction & Deployment Scripts:**
 - Custom scripts were developed to extract all application components from the legacy environment.
 - Automated deployment ensured zero migration defects in UAT and Production.
 - Configuration mismatches were identified and corrected early through automated checks.
- **Controlled Production Cutover:** A carefully planned migration window enabled the team to switch the live system with minimal downtime and no operational impact.
- **Validation Through Parallel Runs:** Billing outputs from both environments were compared line-by-line to ensure 100% accuracy.