


Building the Roaming and Settlement Foundation for the 6G Era

6G India

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6G Starts with Decisions You Make in 5G

The journey to 6G is already underway – but success will depend on how well operators monetize 5G today 

- Building **roaming readiness**
- Enabling **monetization**
- Establishing **secure interconnects**

What Operators Are Facing

The Pressure to Monetize Beyond Connectivity

MNOs must evolve to → **service monetization platforms**

Today's Reality:

- 5G investments are high
- ROI is still under pressure
- New revenue streams are emerging - require new capabilities:
 - Enterprise slicing
 - IoT roaming
 - Private network extensions
 - Low-latency applications



Challenge:

These cannot be monetized effectively using **legacy roaming and billing frameworks**

The Critical Role of 5G SA Roaming

5G Standalone roaming is where monetization innovation begins

What's Available Today:

- HTTP/2-based signaling
- Service-Based Architecture (SBA)
- Policy-driven routing
- Slice-aware capabilities (emerging)

What This Enables:

- Charging based on:
 - Application
 - QoS
 - Latency requirements

SEPP: Enabling Secure Global Roaming

Secure Interconnect is a Prerequisite, Not an Upgrade

SEPP is already available and critical for:

- Secure 5G roaming
- Future 6G interoperability

What SEPP Enables:

- End-to-end encryption between operators
- Secure exposure of network functions
- Trusted global interconnect frameworks

Why It Matters for MNOs:

Without SEPP:

- Roaming expansion slows
- Partner onboarding becomes complex
- Security risks increase

Adopt hosted or managed SEPP models to:

- Accelerate deployment
- Reduce operational burden
- Scale globally faster

Signaling Evolution- What You Need Now

Signaling is becoming the **control plane for monetization**

What's Changing:

- Diameter → HTTP/2
- Static routing → intelligent orchestration
- Batch decisions → real-time decisioning

What Operators Need to Do Now:

- Modernize signaling infrastructure
- Ensure interoperability across partners
- Optimize routing for:
 - Latency
 - Reliability
 - Cost

Why It Matters:

- Poor signaling =
 - Service degradation
 - Revenue leakage
 - Customer dissatisfaction

Clearing & Settlement, Revenue Engine

Monetization doesn't happen at the network, it happens at clearing and settlement

- **What Exists Today:**

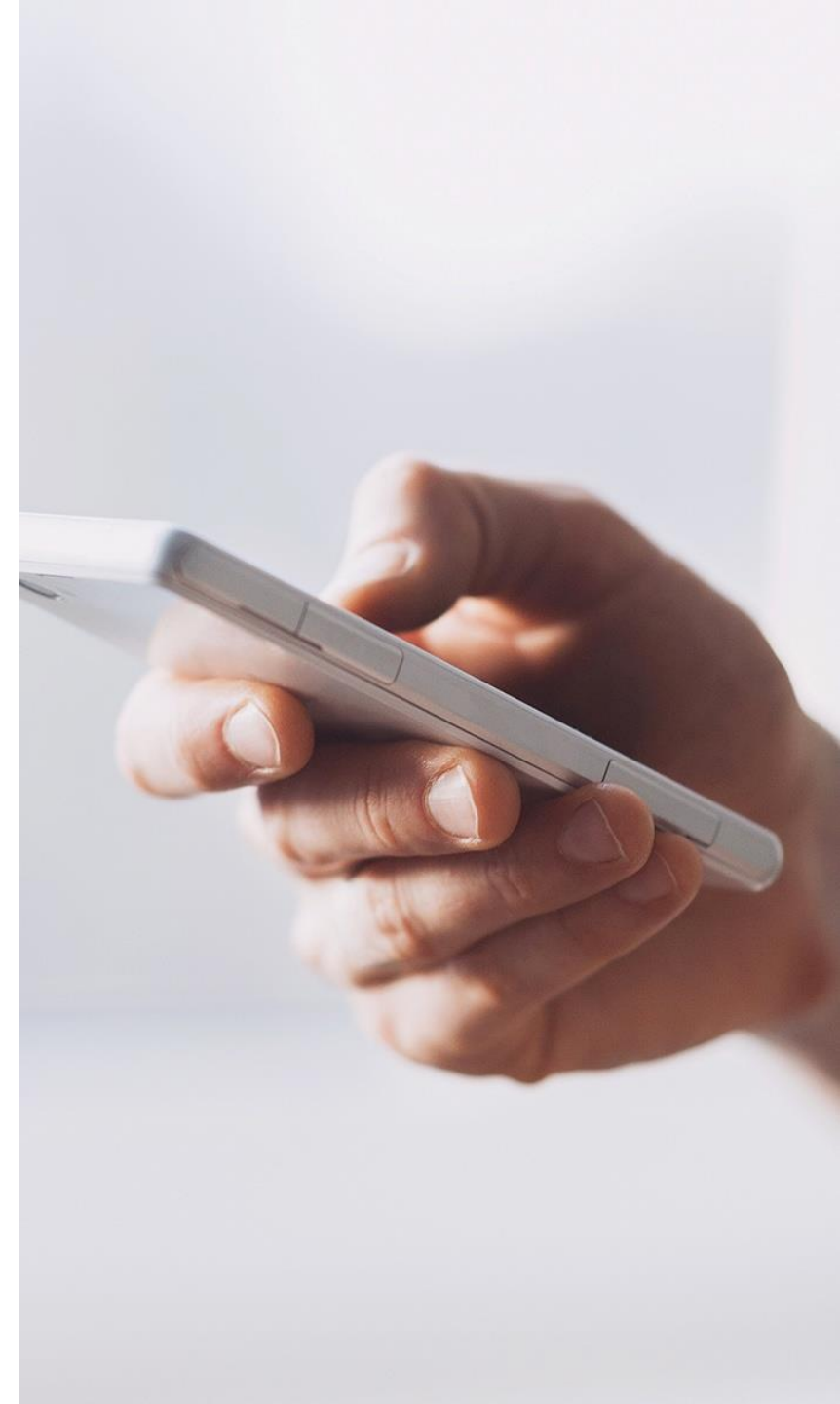
- Advanced clearing platforms that:
 - Process high transaction volumes
 - Support near real-time data exchange
 - Enable financial reconciliation across partners

- **Why This Matters:**

- As services become more complex:
 - Billing disputes increase
 - Revenue leakage risks grow

- **Modern clearing systems are essential to:**

- Capture revenue accurately
- Reduce settlement delays
- Maintain partner trust



Transitioning from TAP to BCE

TAP will not support 6G, but it may coexist during transition

■ What Operators Should Do Now:

- Implement **BCE alongside TAP**
 - Near Real-time data exchange
 - Service-based filtering and aggregation
 - Flexibility in charging models
 - Network slicing
 - IMSI Count
 - Access Fees
 - Commitment/Back2First/Tiered

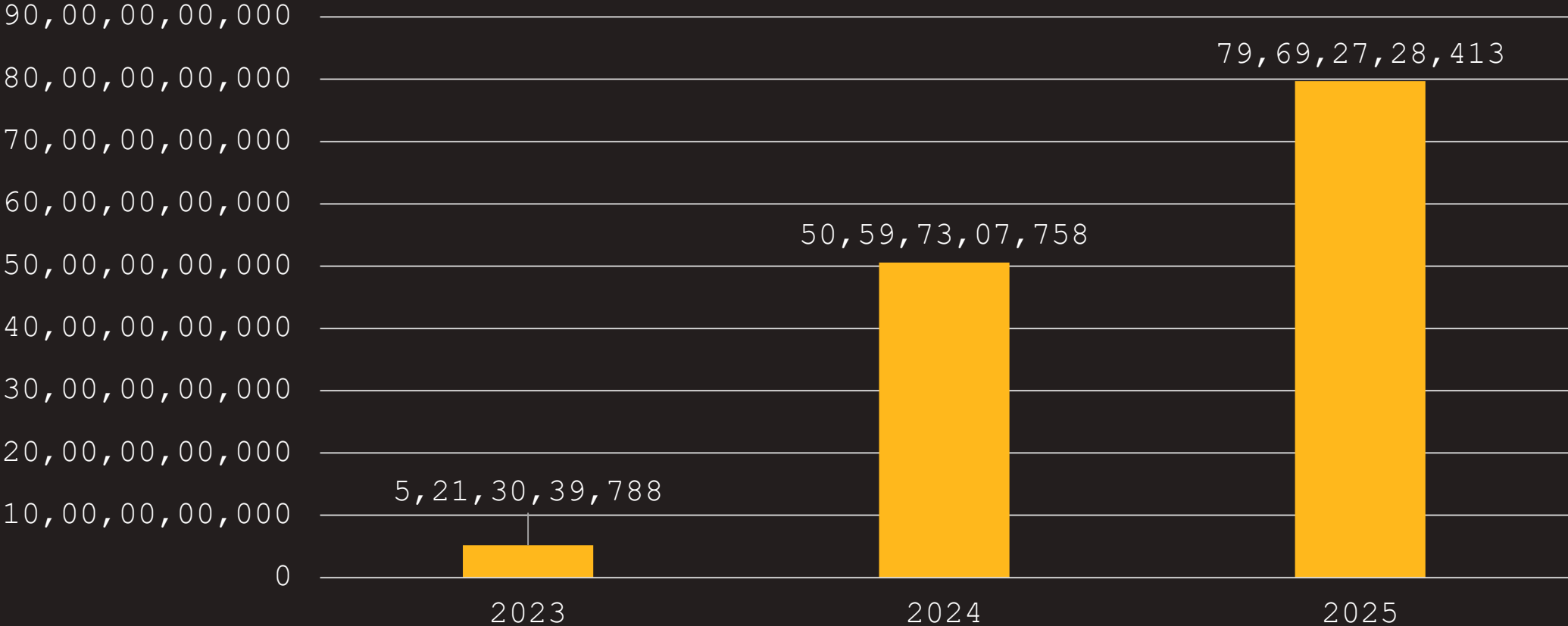
■ Benefits:

- Faster revenue cycles
- Greater pricing flexibility
- Reduced disputes

BCE Volumes are Growing Rapidly

2023 - 2025

BCE Volumes



*Source: Syniverse Universal Commerce 2023-2025

BCE 2.0 and 6G Readiness

Monetizing at the Speed of Services

BCE enables:

- Near Real-time, event-driven monetization
- Micro-transaction processing
- Dynamic partner settlement

6G Impact:

AI-driven services will generate:

- Massive transaction volumes
- Highly variable usage patterns

Advantage:

Early BCE adoption =

- Faster time to monetize 6G services
- Competitive differentiation

Infrastructure Reality: Circuits & Cost

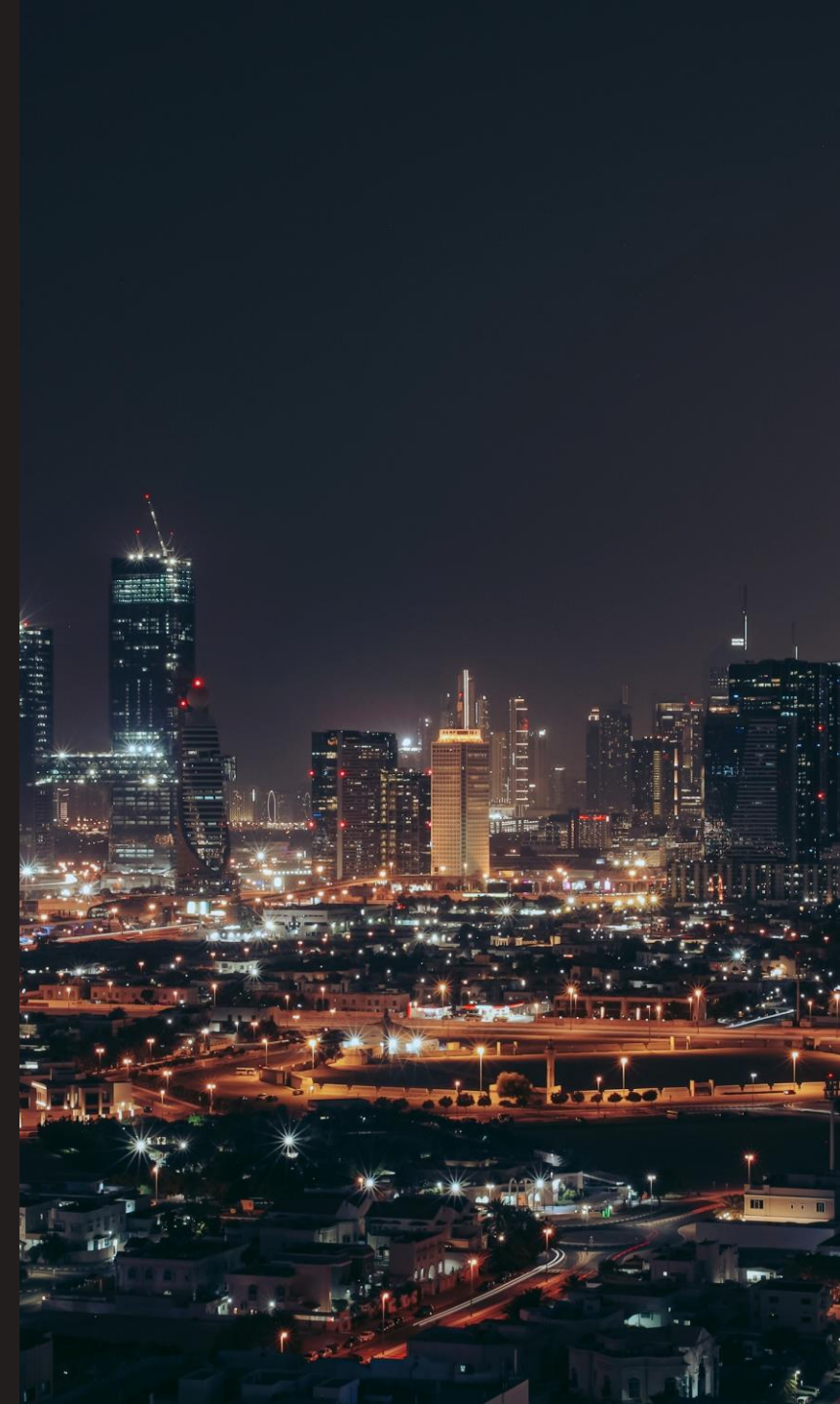
Supporting 6G Performance Without Overspending

6G requires:

- Low latency
- High redundancy
- Always-on connectivity

Operators over-provision circuits to meet SLAs

- Redundancy leads to:
 - Underutilized capacity
 - Duplicate spend



Managing Circuit Complexity

Avoiding Cost Leakage While Scaling Performance

- **Circuit management is often:**
 - Manual
 - Fragmented
 - Opaque
- **Common Issues:**
 - Paying for unused capacity
 - Billing inaccuracies
 - Lack of centralized inventory
- **What's Available Today:**
 - Solutions that provide:
 - Automated invoice reconciliation
 - Inventory visibility
 - Usage validation
- **Operator Benefit:**
 - Reduce unnecessary spend
 - Improve financial accuracy
 - Align infrastructure cost with actual demand



The Integrated Foundation for 6G

To prepare for 6G, operators must align four domains

Roaming Enablement

- 5G SA roaming maturity

Secure Interconnect

- SEPP deployment

Monetization Framework

- Clearing & settlement evolution (BCE)

Infrastructure Optimization

- Circuit visibility and cost control

A Practical Execution Roadmap

Actionable Steps for MNOs

Now

Phase 1

- Deploy / optimize 5G SA roaming
- Implement SEPP (hosted if needed)
- Modernize signaling

Near-Term

Phase 2

- Expand 5G roaming agreements
- Introduce BCE capabilities
- Enhance clearing & settlement processes

Future-Ready

Phase 3

- Fully transition to near real-time monetization
- Optimize circuit infrastructure
- Enable 6G service models

What Success Looks Like

The Monetization-Ready Operator

Outcomes:

- Monetizing 5G services today
- Ready to scale into 6G
- Near real-time settlement capabilities
- Optimized infrastructure spend
- Faster partner onboarding



Build Once. Monetize Continuously.

Be positioned to capture the full value of 6G

6G success depends on:

- Decisions made now in 5G

Operators who invest in:

- Roaming
- Interconnect
- Monetization
- Infrastructure optimization

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