Data Services Inventory Matching and Automated Settlement

GSMA Service Showcase Live
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vodafone

Challenges in Data Services

Current Challenges

- Increasing inter-ISP buying/selling relations
- Multiple sources of truth (each partners keeps own transaction records)
- Emerging traffic types
- Legacy IT

- Little trust
- No master data model tying together commercial and operational processes
- Differing standards
- Proprietary IT

① CPQ	② Order	③ Delivery	④ SOAM *	⑤ Settlement & Booking

Pain Points

- Significant manual work
- Data quality issues > invoicing errors > disputes > more manual work
- Lost deals > less revenue

- Long response and/or processing times
- Inefficiencies & waste of FTE
- Unpaid invoices > suboptimal cash flow

* SOAM = Service Operations, Administration and Maintenance

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Innovation Approach

Collaborated network of Carriers with support from vendors and industry bodies. Start small, grow into production early, learn, extend network, add use cases

Create a blockchain shared service repository as a single source of truth

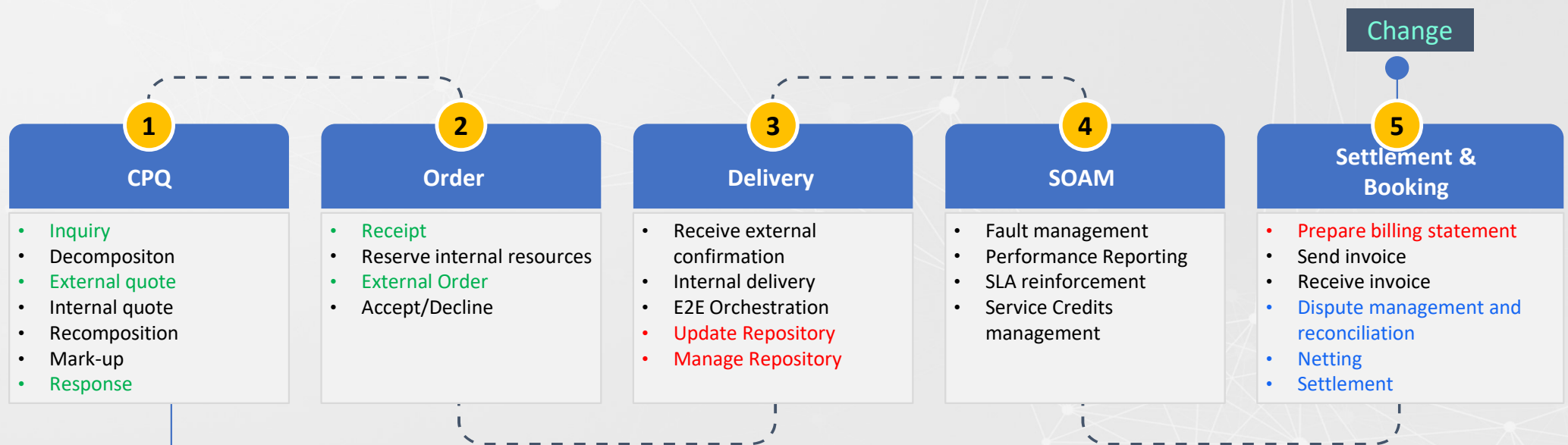Use smart contracts to enforce commercial agreements and drive automation

Collaborate with industry bodies (GSMA, MEF, TM Forum, CBAN, etc.) to thrive standardization and thrive adoption

Data Services Lifecycle & Focus

Overview

- <u>Current</u> – manual extraction of active services; bi-directional matching records; undisputed billing statement; mismatch segmentation
- <u>Scope</u> – automated extraction of active services, bi-directional matching records; undisputed billing statement; AI mismatch reconciliation

Change

| **1** CPQ	**2** Order	**3** Delivery	**4** SOAM	**5** Settlement & Booking
• Inquiry • Decompositon • External quote • Internal quote • Recomposition • Mark-up • Response	• Receipt • Reserve internal resources • External Order • Accept/Decline	• Receive external confirmation • Internal delivery • E2E Orchestration • Update Repository • Manage Repository	• Fault management • Performance Reporting • SLA reinforcement • Service Credits management	• Prepare billing statement • Send invoice • Receive invoice • Dispute management and reconciliation • Netting • Settlement

Initiate

Index:
- In progress @CBAN Wholesale Data Supply Chain Management
- In progress @MEF Sonata API development and PoCs
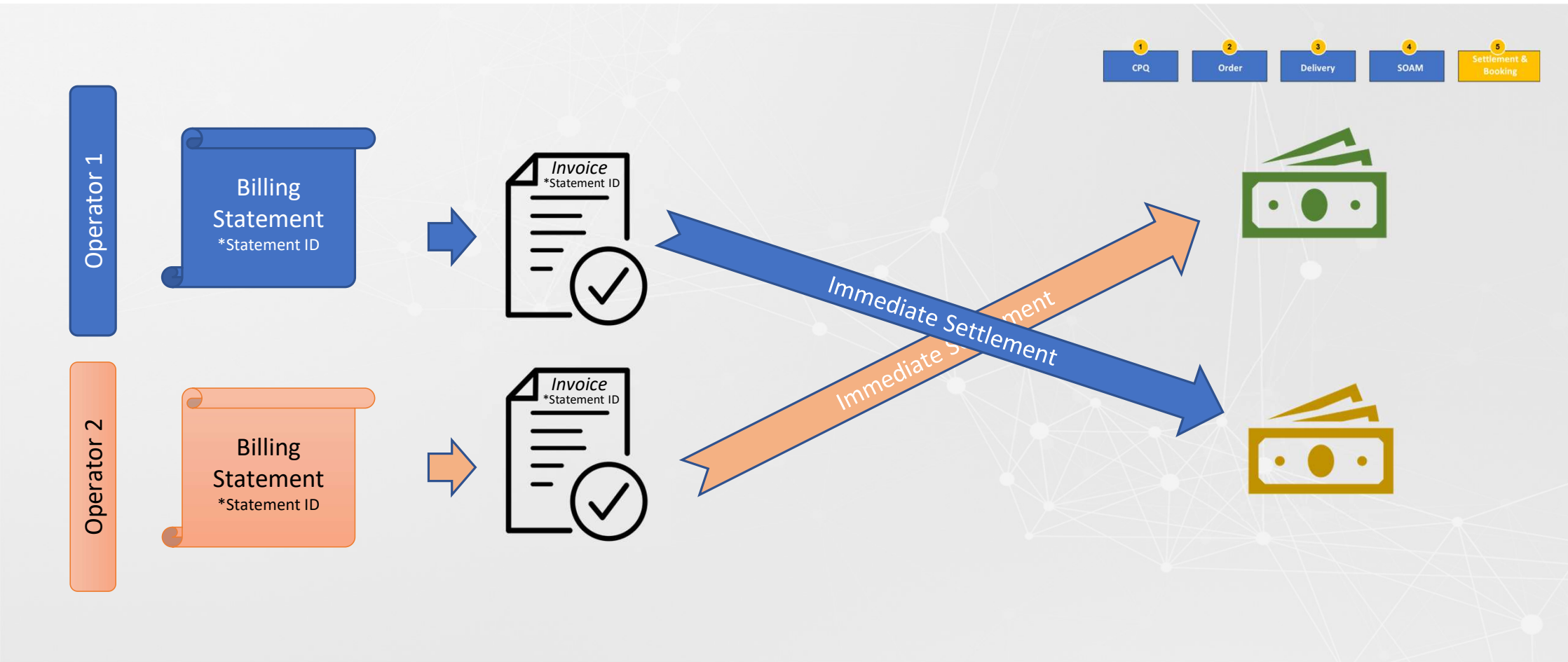- In progress @CBAN Wholesale Voice Settlement and @GSMA Wholesale Roaming Settlement

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Update & Manage Repository:
Inventory Matching & Mismatch Handling
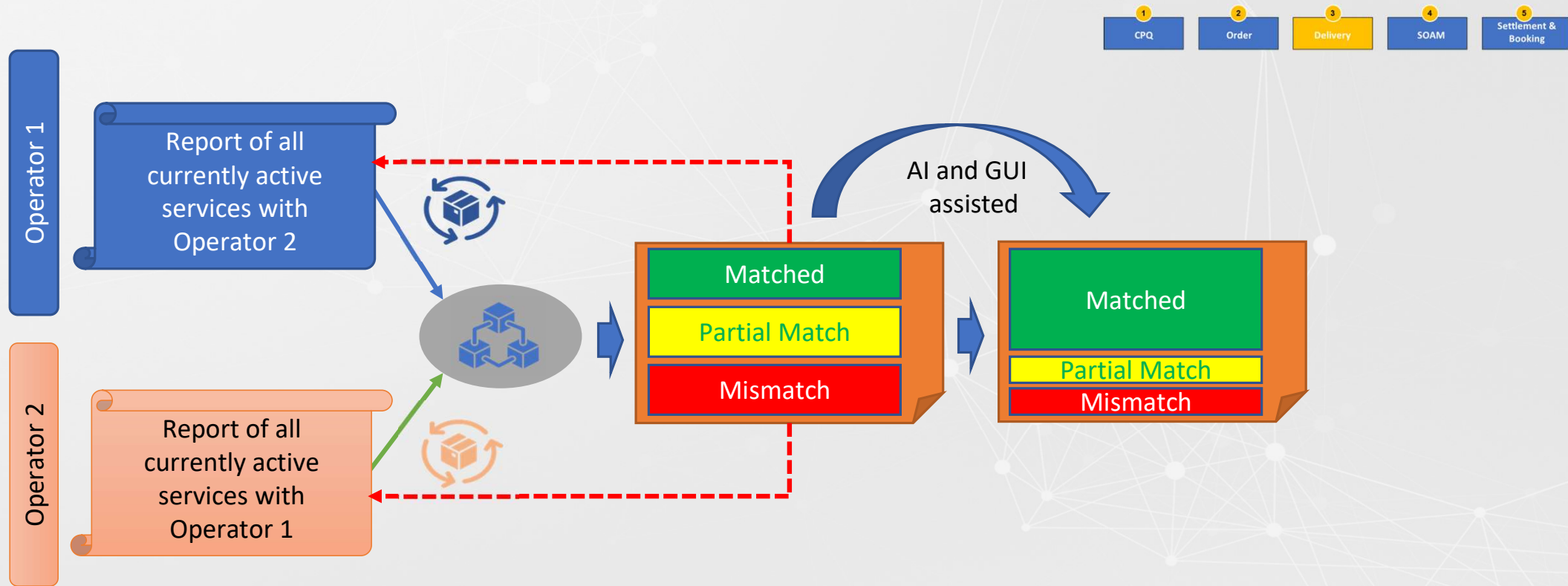
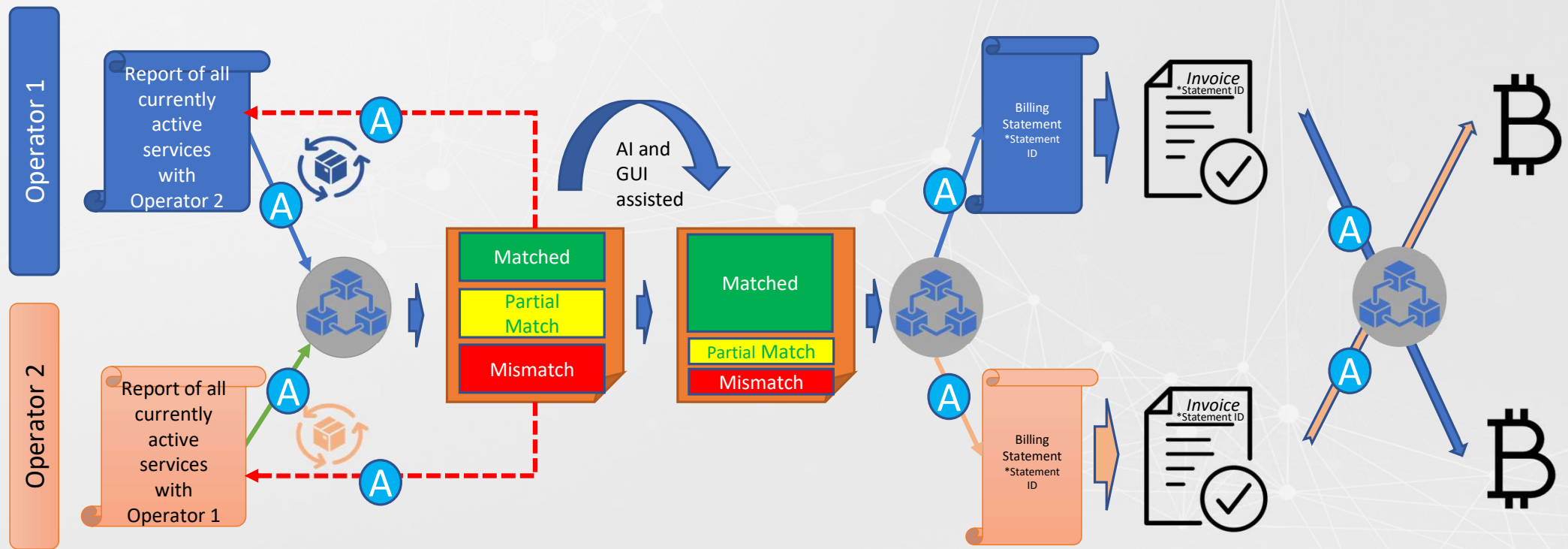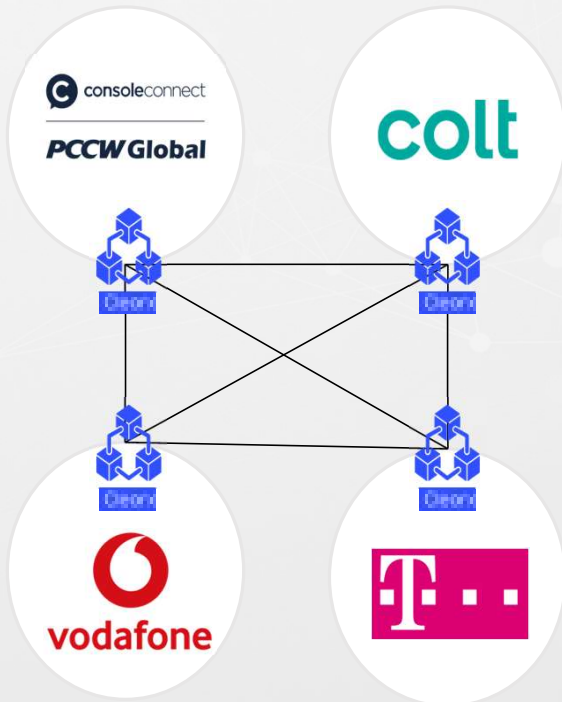# Generation of Billing Statements
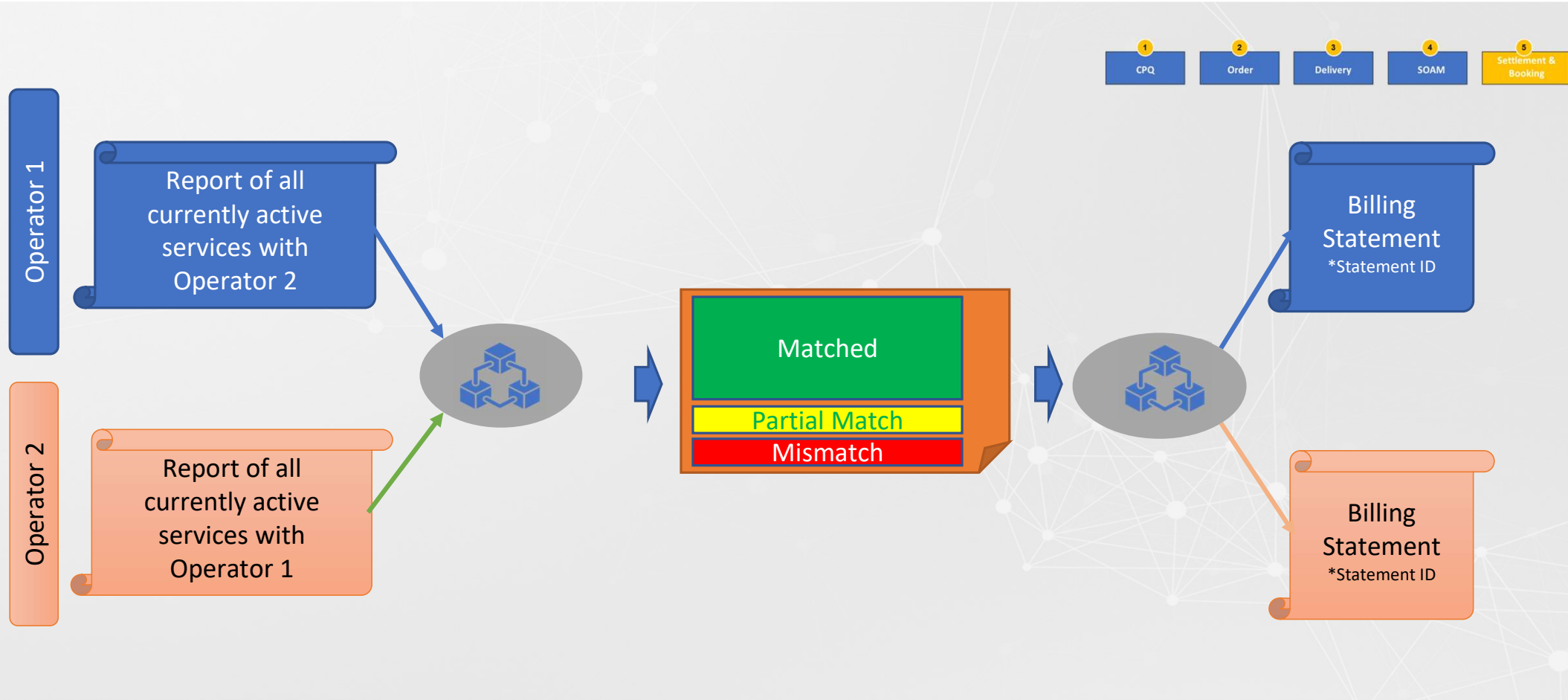
Frictionless Invoicing and Settlement

Target Outcome

A = API

Network Setup & Benefits

Current Network Setup

Benefits Achieved

- Aligned inventory & one source of truth: Auditable by tax authorities, regulators etc.

- Significant reduction of manual work: inventory, disputes, alignments …

- Shorter processing times e.g. for RFPs

- Optimized cashflow

- Better supplier & customer relationships

- Less cost, higher revenues, better cashflow

 = Blockchain Node