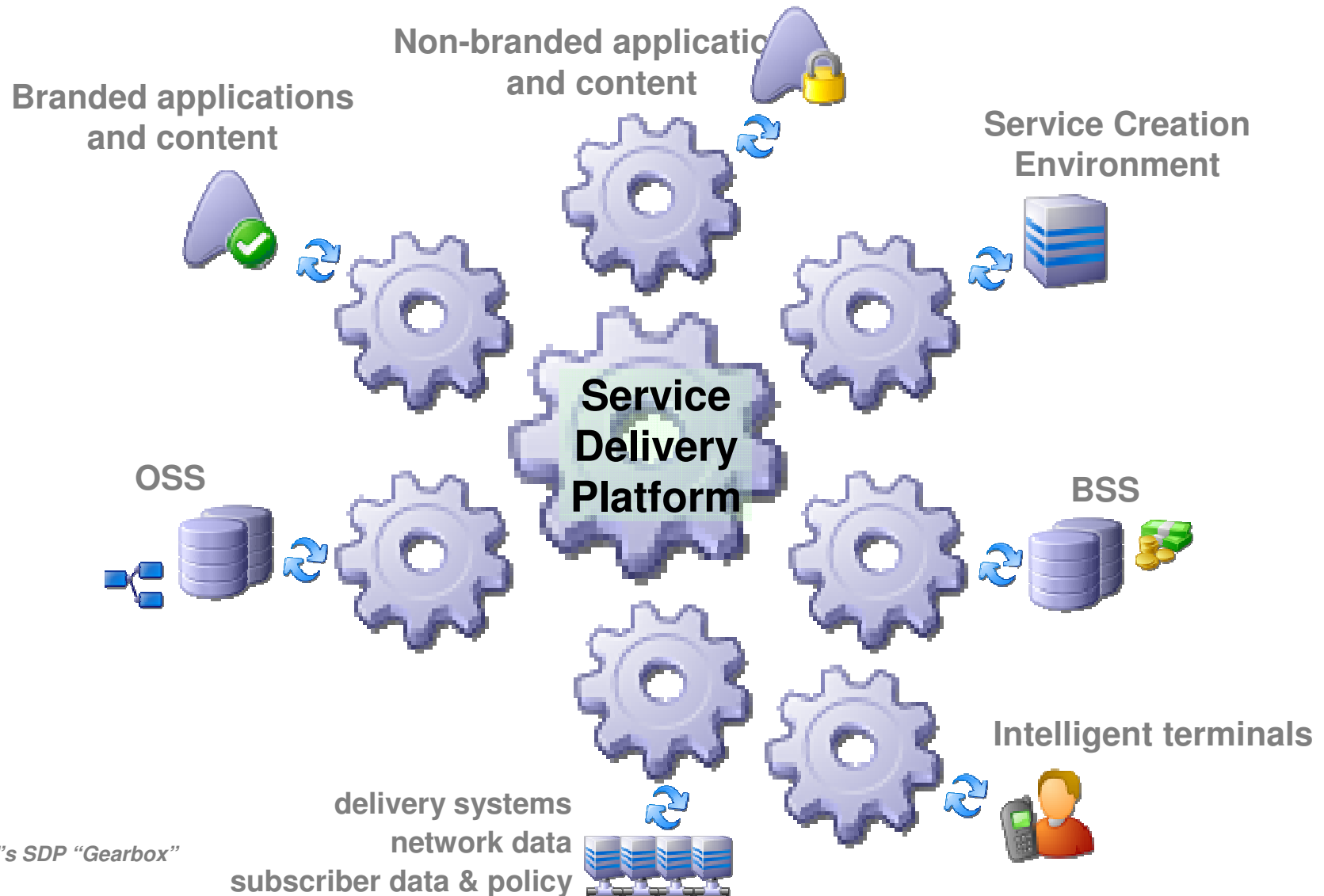


Rapid Service Creation & Provisioning on a next generation SDP Framework

Wasim Azhar
Mobile Cohesion

SDP Context



Ref: IBM's SDP "Gearbox"

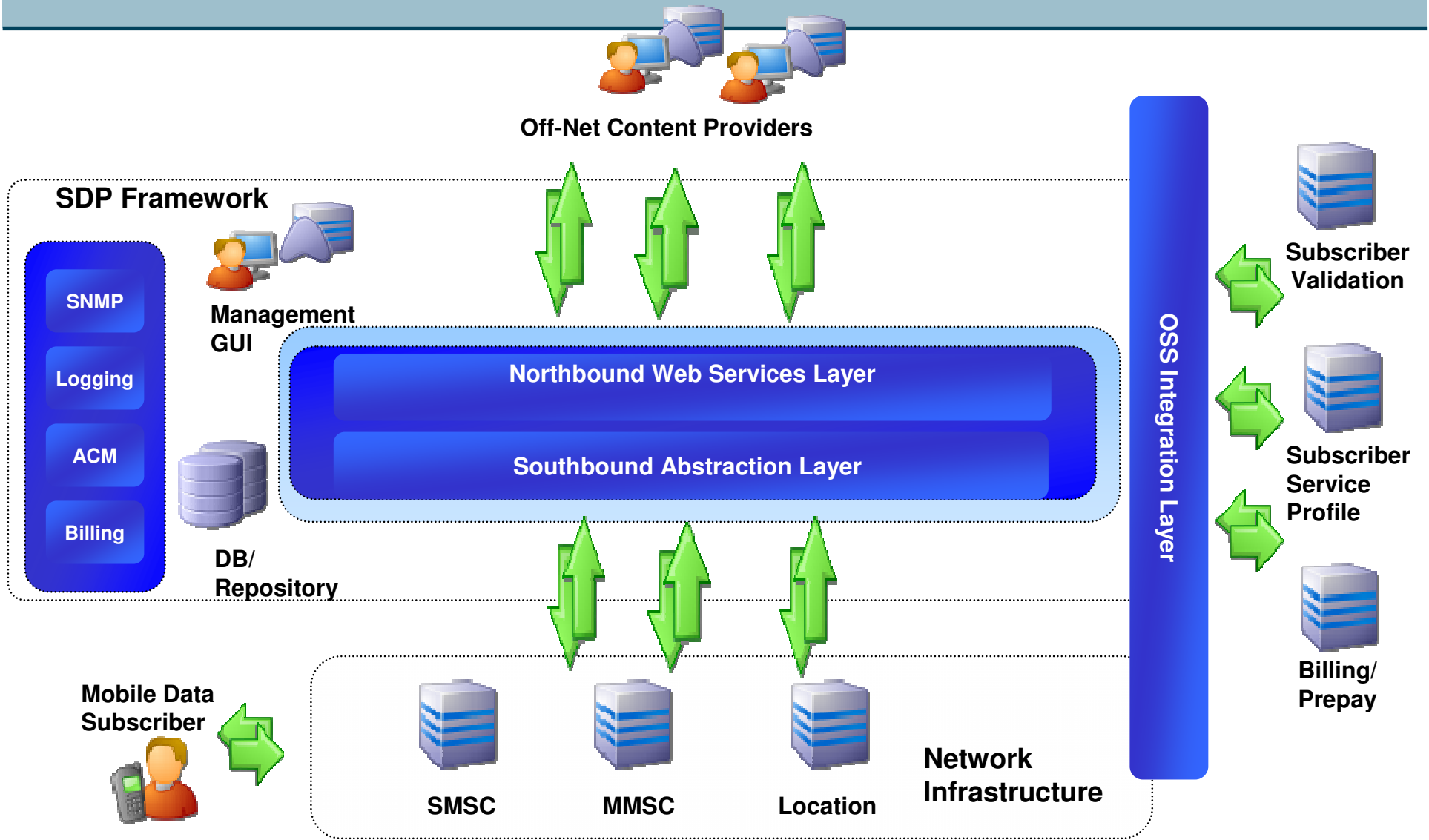
New Revenue Opportunities and lower TCO

- **Customized Solution** → **Standards based Service Architecture**
- **Bespoke Components** → **Product based approach**
- **Limited scale** → **Mainstream, high-volume execution environment**
- **Multiple disparate systems** → **Single Framework for Branded and non-branded Services**
- **On-net / branded** → **High volume, wholesale, off-net, non-branded**

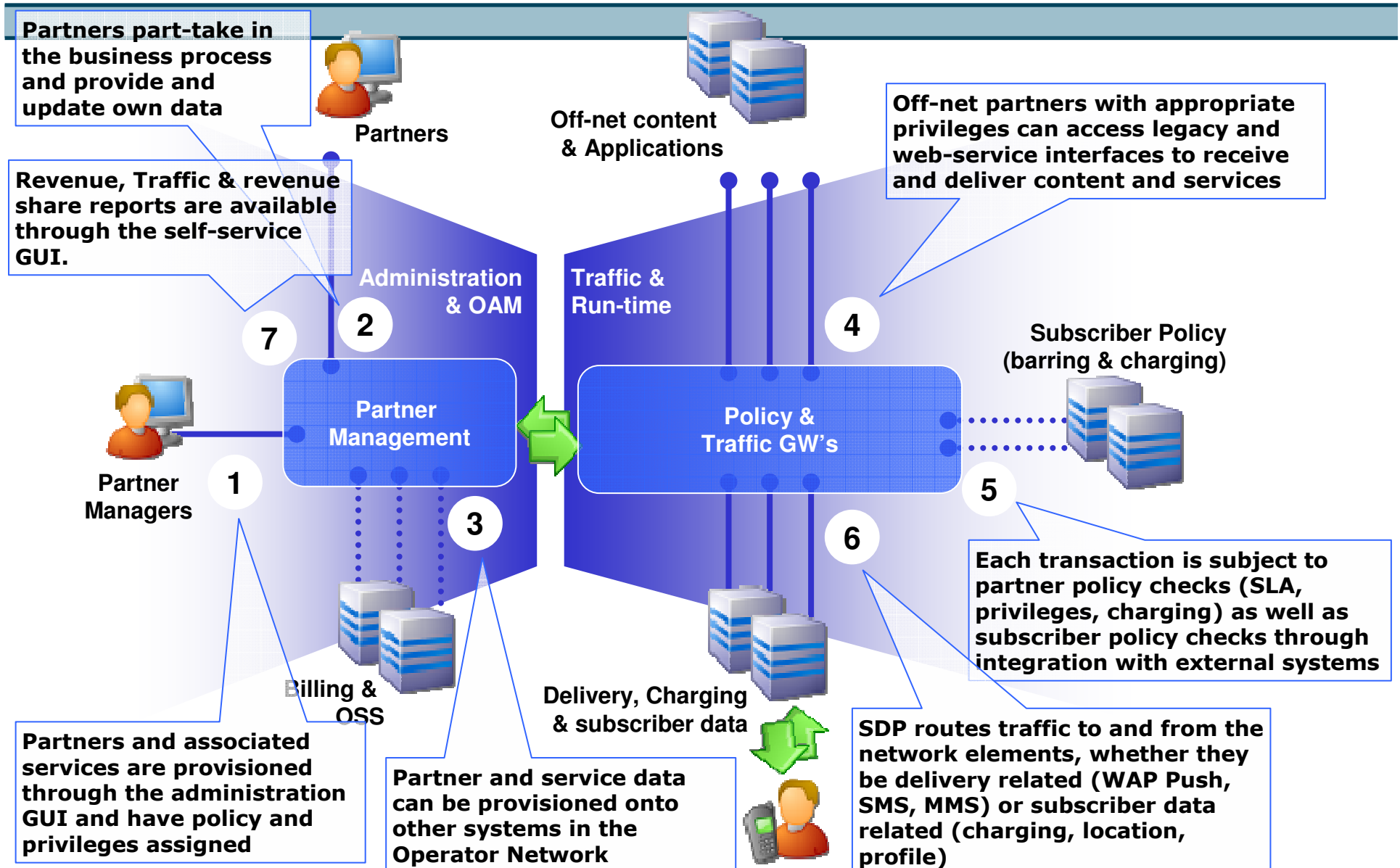
A Web Services based approach for an Intelligent SDP Framework

- **Loose coupling**
- **Network Abstraction**
- **All IP based Intelligent Information Network Architecture**
- **Application Oriented Networking vs. Packet**
- **Standard HW**
- **Ease of new enabler introduction**
- **Re-use existing enablers**

Customer Case – SDP Architecture

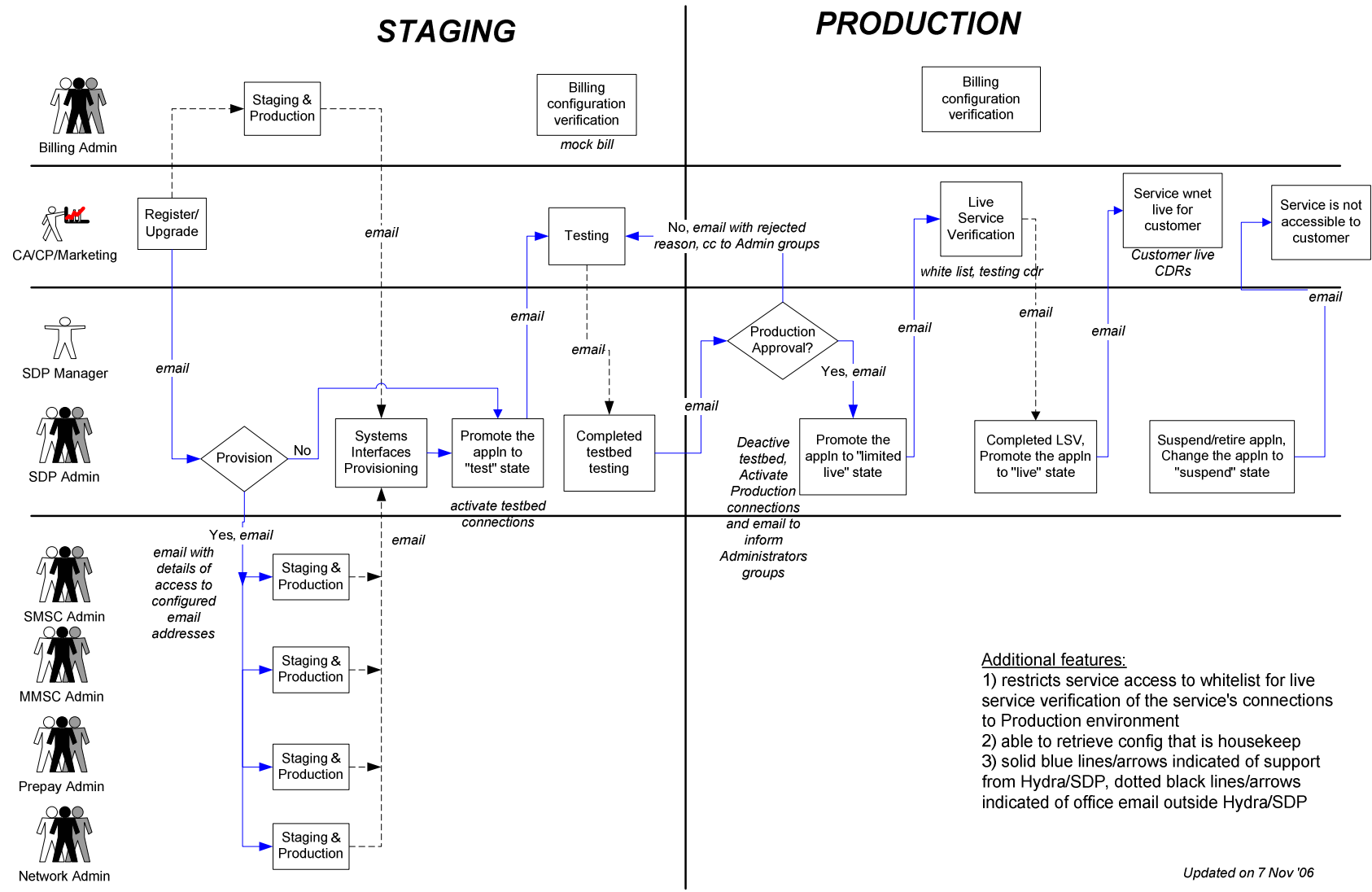


SDP Solution Approach



- **Automate Partner Management Processes**
 - Lifecycle and settlement
 - Partner Policy Control
- **Messaging**
 - Wholesale transaction environment under charging and policy control
 - In-band charging
 - Multi Level Revenue Share and Settlement
- **Charging & Pre-pay control**
 - Enables off-net: streaming, downloads, messaging
 - Off net top-up: PoS and loyalty schemes
- **Subscriber service control**
 - Barring & subscriptions
 - Dynamic service instance creation
- **Service Creation Support**
 - API's & SDK

Service Lifecycle Support



Updated on 7 Nov '06

- **Wholesale**
 - Maintain policy and charging control for high volume events
 - TV & Radio interactive services (e.g. voting)
 - Allow wholesaler/aggregator to differentiate traffic based on CP
 - Multi-level revenue share and settlement
- **Policies & SLA's**
 - Service and policy differentiation based on partner & application
 - Volume policies: Capacity, throttle, quota's
 - Differentiated Charging policies: Flat-fee, in-band, tariff based, maximum limits
 - Subscriber policy interactions: barring, service types, subscriptions

Charging & Prepay control

- **Eliminate Revenue leakage**
 - “Real” real-time pre-pay control
 - Off-net 2-step reserve/commit
- **Enables charging for**
 - HTTP download events
 - Streaming
- **Partner Subscriber Top-up & Balance management**
 - PoS top-up
 - Loyalty scheme integration

Enabling Personalized Rich Services to drive new mainstream Data Services

Who?

- Who is the user?
 - Devices
 - Profile
 - Location
 - Presence

How?

- How can I dynamically control resources?
 - Monitor & charge on a per service / per user basis
 - Enable application awareness

What?

- What can the user do?
 - Within what timeframe
 - To what extent
 - Under what rules

Where?

- Where services can the user access across which networks?
 - Service Continuity
 - Offer all services in all locations

- **Web Service Interfaces**
 - WS / SOAP / HTTP
 - Abstracted protocols
 - Synchronous network interaction
 - Focus on practicality & scalability over standardization
- **Java Client Libraries**
 - WS protocol wrapped in client libraries
 - Integration into any Java / J2EE environment
- **Lifecycle based routing**
 - Same end-points and credentials in test and live
 - Reduces test-effort and removes possibilities for error

The **SDP** Alliance

Service Delivery Platform

