CSG SINGLEVIEW INTEGRATED CHARGING & POLICY

SIGNIFICANTLY IMPROVE BUSINESS PERFORMANCE WHILE MINIMIZING COST

TOGETHER, YOU WIN.

The prolific uptake in smart devices and machines with embedded connectivity paired with a surge in media-rich applications and Internet services is creating unprecedented demands on today's networks. And even with costly ongoing upgrades to 4G LTE/EPC, 5G, FTTH and FMC, network operators are challenged to meet this growing demand and also quickly deliver the new services and enhanced customer experience that are needed to increase revenue and profitability.

The subscriber-focused policy and charging control capabilities of CSG Singleview Integrated Charging & Policy (ICP) orchestrate subscriber service and asset interactivity enabling operators to tap into new revenue opportunities while minimizing the associated costs.

BUSINESS PERFORMANCE IMPERATIVES

POLICY FROM BUSINESS TO NETWORK

Controlling the network is only half the story. Singleview ICP embeds network control into the wider context of orchestrating how a subscriber uses and pays for a service end-to-end—across all network, service delivery and partner nodes—according to business service rules that you define.

SEAMLESS SERVICE CONVERGENCE

With Singleview ICP, you can host a range of business logic designed to suit specific industry verticals (for example Mobile Broadband, DSL Access Control or WiMAX CSN) or geographical operations and combine them together as these verticals converge to provide a single service.

LOW COST CHANGE VELOCITY

Singleview ICP minimizes the cost of business change, in terms of timelines and skills, through intuitive control of service logic via business interfaces. Business users are able to make immediate changes to market offers risk free—lowering the cost and time to react to market needs.

MAXIMIZE EXISTING INVESTMENTS

Many operators have significant investments in existing network, service and IT infrastructure in an architecture supporting valuable data and system processes.

Singleview ICP features an open architecture, with network and IT system adapters to integrate with not only new standards based infrastructure but legacy platforms, protocols and architectures.

AVAILABILITY AND THROUGHPUT

High-availability plays a pivotal role in revenue assurance and customer experience. Singleview ICP is a software platform designed from the ground-up to manage subscriber access and usage of packet services in real-time while supporting high loads for subscriber connectivity.
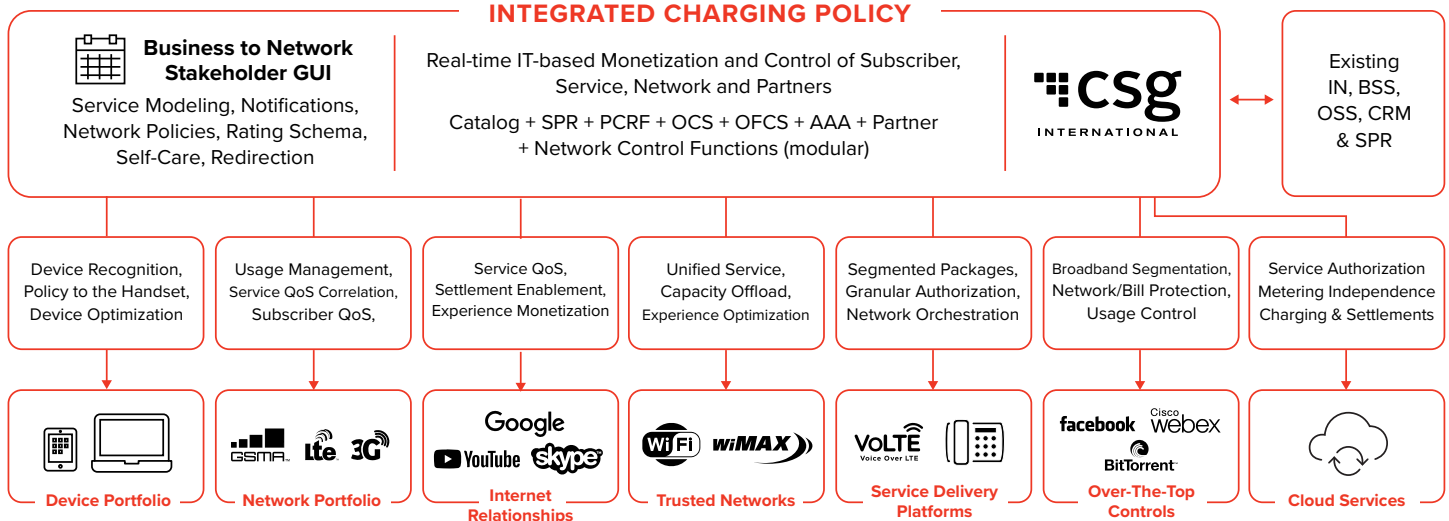
SINGLEVIEW ICP FUNCTIONAL CAPABILITIES

→ **Comprehensive and intuitive subscriber service, package and network policy modeling** including usage caps, package and enforcement transitioning, usage rating, subscriber notifications, partner authorization and charging management

→ **Subscriber Dialogue Redirection and Notifications** for events such as package expiry, exhaustion or new connectivity with subscription, top-up or bolt-on options

→ **3GPP PCRF and OCS-Compliant PCC Engine and Interfaces** capable of processing and orchestrating transactions from and across any network, service and partner node—supporting Tier 1 level subscriber volumes and service interactivity

→ **Network Edge Rating and Charging** including VoIP numbering plans, taxation, rate determination and discount management

→ **On-demand Charging Features** help facilitate complete service revenue collection

→ **Partner Management and Settlement** supporting two-sided business models and partner service integration

→ **Multi-tenant Hub Deployments.** Host multiple subsidiaries and partners with a single solution with full logical separation of hosted operations

→ **Open Subscriber Profile Repository** supporting account hierarchies and multiple services per subscriber

→ **Device Sensitive Self-Care Portal** providing subscribers direct control over service personalization, usage history, service top-up, bolt-on options, balance management and account choices

→ **Internal or External Balance Integration** providing the ability to integrate with multiple external IN or balance systems or use built-in balance system with payment integration

→ **Embedded Active, Proxy or Passive Authentication, Authorization and Accounting (AAA)** with session repository to enable end-to-end session, identification and bearer management

→ **Subscriber Service Intelligence.** Understand services, revenue and application trends and statistics using all information passing through and resident within Singleview ICP

→ **Edge Offload Control** (including those compliant with IFOM and SIPTO standards). Intelligently control traffic-offload elements on a subscriber service level

DELIVER

- Bill Shock Management & Charging Transparency
- Usage Bundles, Transparency, Top-Ups & Bolt-Ons
- On-demand Service Access
- Single Service - Multiple Network
- Over-the-Top Service Integration
- Attractive Roaming Options
- Ubiquitous Access
  - Any Device, Any Network, Any Place

- Multiple Payment Options
  - Pre-pay and Post-Pay
- 2-Sided Business Plans
  - Comms, Enterprise & Apps
- Service Assurance & QoS
  (including Rich VoIP)
- Assured Delivery-backed Revenue Collection
- Shared Plans

INTEGRATED CHARGING POLICY

Business to Network Stakeholder GUI
Service Modeling, Notifications, Network Policies, Rating Schema, Self-Care, Redirection

Real-time IT-based Monetization and Control of Subscriber, Service, Network and Partners

Catalog + SPR + PCRF + OCS + OFCS + AAA + Partner + Network Control Functions (modular)

CSg INTERNATIONAL

Existing IN, BSS, OSS, CRM & SPR

Device Recognition, Policy to the Handset, Device Optimization	Usage Management, Service QoS Correlation, Subscriber QoS,	Service QoS, Settlement Enablement, Experience Monetization	Unified Service, Capacity Offload, Experience Optimization	Segmented Packages, Granular Authorization, Network Orchestration	Broadband Segmentation, Network/Bill Protection, Usage Control	Service Authorization Metering Independence Charging & Settlements
Device Portfolio	**Network Portfolio**	**Internet Relationships**	**Trusted Networks**	**Service Delivery Platforms**	**Over-The-Top Controls**	**Cloud Services**

ABOUT CSG

CSG simplifies the complexity of business transformation in the digital age for the most respected communications, media and entertainment service providers worldwide. With over 35 years of experience, CSG delivers revenue management, customer experience and digital monetization solutions for every stage of the customer lifecycle. The company is the trusted partner driving digital transformation for leading global brands, including Arrow, AT&T, Bharti Airtel, Charter Communications, Comcast, DISH, Eastlink, iFlix, MTN, TalkTalk, Telefonica, Telstra and Verizon.

At CSG, we have one vision: flexible, seamless, limitless communications, information and content services for everyone. For more information, visit our website at csgi.com and follow us on LinkedIn, Twitter and Facebook.