



KPSA

Kabira Provisioning and Service Activation™ (KPSA) provides a way for telecom service providers to deliver high value, high demand converged services to customers faster and at lower cost than ever before. KPSA is ideal for general service activation and provisioning on convergent networks, and is a proven solution used by leading carriers in a variety of network and service environments worldwide. KPSA has been implemented in 3G/GPRS/CDMA, WiFi/WiMAX and VoIP/NGN networks. It is deployed in conventional wireline networks, delivers converged services over IMS, and is designed to work in quadruple-play environments incorporating high-speed data, telephony, TV and wireless content networks.

KPSA is the provisioning and service activation leader because it leverages the extreme processing capabilities of the Kabira Transaction Platform™. This produces performance far beyond that available from conventional provisioning products. Kabira's unprecedented speed, performance and flexibility lets operators take full advantage of their existing infrastructures, smoothly integrate convergent networks and exploit lucrative new business models that mesh service activation with marketing efforts.

Benefits of Fastest Time To Market

With KPSA, service providers can take a direct path from marketing to operations, quickly implementing new service activation types and introducing new network platforms into the service provisioning logic. All of this can be done within extremely short timeframes. KPSA delivers a host of benefits that give operators the advantage of quickly and reliably delivering new services that will differentiate them in the marketplace and secure subscriber loyalty.

KPSA OFFERS THESE BUSINESS BENEFITS:

- **Cutting-edge advantage**

Shorter service testing and provisioning reduces time-to-market and time-to-profit for new services, even within tight IT and network operations budgets.

- **Improved revenue**

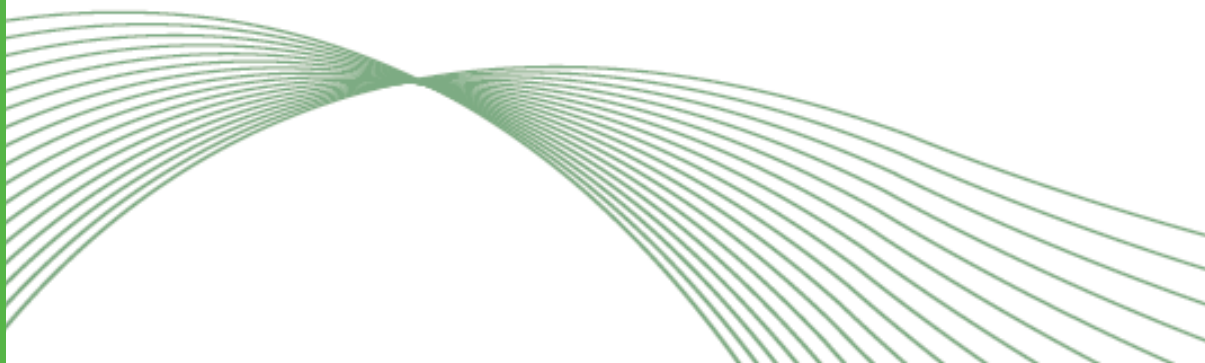
More efficient service activation ensures greater service usage.

- **Greater customer loyalty**

Instant activation is key to the success of "trendy" new services, stimulates usage, reduces churn and boosts customer satisfaction.

- **Extends value of legacy systems**

Improved integration and information transmission, from service definition to the service components, optimizes legacy investments.



OVERCOMING THE CONCRETE CHALLENGES FACING OPERATORS

Telecom subscribers expect to initiate and immediately use new services directly from their fixed and wireless devices. This requires carriers to support fast, smooth provisioning of services that can include text and voice messaging, VoIP offerings, rich content delivery and other convergent services. But the back office provisioning functions remain largely a manual process associated with high administrative costs for many service providers. In addition, operators are challenged to mesh service activation with marketing efforts and integrate convergent network technologies with their service partners. KPSA network operators overcome these obstacles with the fullest array of features and functions available in a provisioning solution today.

KPSA FEATURES

Dynamic Provisioning Catalogs And Workflows

- KPSA supports in-parallel, complex and ever-changing workflows involving human interactions and asynchronous actions.
- KPSA features advanced configurable provisioning policies and rules meta-catalogs to rapidly execute and modify network activations (such as 3G or triple-play schemas combining voice, data and video).

Adapter Configurability

- Configurable, easy-to-upgrade network and IT adapters support online and multi-versioning capabilities and advanced rollback.
- A large library of protocols is supported (Telnet, SSH, SOAP, File, CORBA and more).

Network Access Optimization

- Network optimization occurs through grouping of network requests after service decomposition, and delta analysis between target and existing subscriber configuration.
- Early and late enrichment available for conditional activations or late routing decisions.
- Supports complex strategies for connection to network elements, such as permanent and dynamic connections, retries on timeout policies, backup node switching upon overload notifications and load balancing.

Intelligent Testing

- KPSA's advanced testing suite supports comprehensive functional and performance testing, reduces test cycles.

- Supports isolated testing of new or updated service configurations, while simplifying configuration release management.

Subscriber and Network Data Consistency

- Integration between network inventory and subscriber databases ensures data consistency between IT and network environments.

100% High Availability

- Robust architecture and automatic recovery capabilities guarantee 24x7 service delivery across centralized or distributed architectures.

Advanced Service Orders, Rollbacks & Errors Management

- Advanced monitoring of service orders enables operators to handle and correct errors as quickly as possible.
- Sophisticated tools make it possible to track service orders on multiple criteria, such as per-range, per-status and per-product.
- End-to-end rollback with controls at every level (product, network element, command) ensures the exact state of every subscriber's service order.

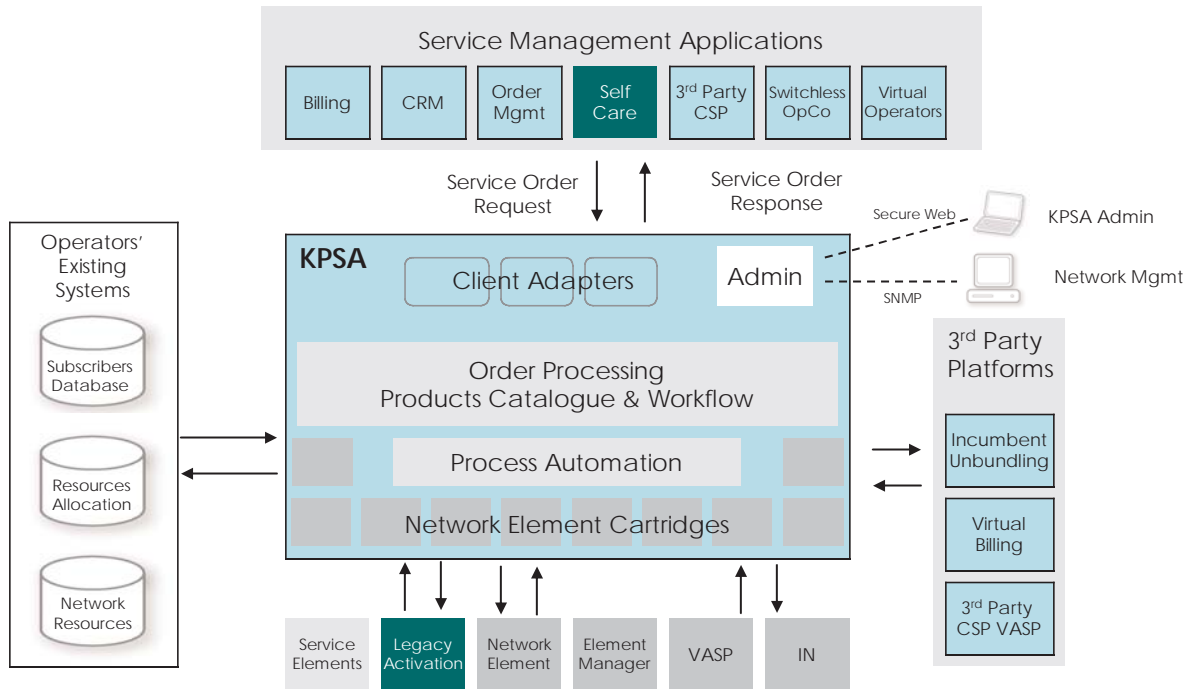
Extensive Support of Complex Provisioning Flows, including:

- Activation / deactivation / resume / suspend / update
- Mass barring / unbarring
- Audit / hot-line flows
- Number portability
- Prepaid management
- Referentials reconciliation
- Rapid, open and standards-based IDE for easy extension to new customer's flow

"The introduction of KPSA into our IT architecture represents a key building block for successfully deploying cutting-edge services within the France Telecom Group, our local IT team and our local partners, while retaining the ability to handle unexpected increases in traffic volume. Even before full completion of the Kabira implementation, we were already launching new network features to respond to local market demands."

*Philippe Salin
Technical Director
PTK Centertel*

Figure 1: KPSA Architecture



KPSA SOLUTION OVERVIEW

KPSA Next-Generation Provisioning

Kabira Provisioning and Service Activation (KPSA) is a complete service provisioning and activation solution. Built on the standards-based, SOA-compliant Kabira Transaction Platform, KPSA has the flexibility and extreme performance capabilities to power even the largest convergent networks. KPSA intermediates between the various management applications that define and drive the creation of new services at the operational level, and the service elements that realize these services at the network level.

Supports Widest Range of Management Applications and Service Elements

KPSA is designed to provide reliable, high-throughput provisioning and activation, while supporting the widest possible range of service management applications and underlying service elements. This design is driven by the fact that fast deployment of new services provides a critical competitive advantage. Moreover, scalability is essential as networks

converge and drivers for service creation grow. KPSA ensures that an operator's service activation and provisioning capability is easily extensible and customizable, at minimal cost and in the shortest possible timeframe.

KPSA FastTrack

Kabira also provides ready-to-deploy, pre-packaged versions of KPSA with default northbound interfaces, pre-configured provisioning logic and integrated advanced service order administration GUIs. These targeted solutions allow service providers to quickly get up to speed by addressing the most common requirements of their specific market, which dramatically reduces implementation time and cost. The operator benefits directly from Kabira's wide experience gathered from dozens of implementations. These KPSA FastTrack solutions are ideal for powering go-to-market strategies in emerging markets:

- KPSA FastTrack for 3G & Wireless
- KPSA FastTrack for Triple Play over xDSL



Corporate Headquarters – USA
1850 Gateway Drive, 5th Floor
San Mateo, CA 94404
USA

Tel +1 650 931 3700
Fax +1 650 931 3799

Kabira Technologies – UK
2nd Floor, The Eclipse
5 Bath Road
Slough Berkshire SL1 3UA
United Kingdom

Tel +44 0 1753 787200
Fax +44 0 1753 787272

Kabira Technologies – France
11, rue Scribe
75009 Paris
France

Tel +33 1 44 51 70 90
Fax +33 1 44 51 00 80

Kabira Technologies – Japan
Pacific Century Place, 8F
1-11-1, Marunouchi, Chiyoda-ku
Tokyo 100-6208

Tel +81 3 6860 8310
Fax +81 3 6860 8544

www.kabira.com
For more information:
info@kabira.com
contacteurope@kabira.com

© 2006 Kabira Technologies, Inc – All Rights Reserved. Kabira is a registered trademark of Kabira Technologies, Inc. All other trademarks are owned by their respective owners. This document may not be reproduced, translated or modified in any form without prior permission of Kabira Technologies.

This document cannot be sold. Information and specifications contained in this document are subject to change without notice. Kabira assumes no obligation to update it.

BR-TC-KPSA-03-0607

"Since the implementation of Kabira, it now takes less than a few minutes from a point-of-sale request to get a fully provisioned order. Thanks to the unrolling and transactional capacity of KPSA, our business systems are in full sync with our network."

*Nicolas Costaras
Chief Information Officer
TIM Hellas (Vodafone Group)*

THE KABIRA TRANSACTION PLATFORM

Kabira's platform architecture separates infrastructure and business components, easing maintenance and supporting smooth product evolution.

By leveraging this innovative approach, network operators take advantage of all the valuable capabilities of the Kabira Transaction Platform:

Real-Time Foundation

Kabira delivers the fastest transaction-processing speeds by employing intelligent accelerated I/O, optimized model-compiler technology, and a memory-resident, zero-copy runtime environment.

Grid-Flow Architecture

Support for rapid assembly of components, combining stream-based data flows with high-speed events. Shortens new product development cycles and enables transparent migration of logic across the grid at runtime.

Transaction Optimized Services

With atomicity that spans events and data, Kabira's memory-based transaction state yields ultra-low latency and leverages concurrency that automatically scales to available hardware.

Integration Aware

Built-in normalization and serialization/de-serialization capabilities enable protocol-independent applications; comprehensive transaction mapping, data and event-transformation services promote fast rollout of new products across diverse networks.

Low-Cost, High Availability

Kabira is always on, delivering "five 9s" (99.999%) of event, data and service availability.

ABOUT KABIRA

Kabira Technologies provides high performance real-time transaction processing software for the financial payments and telecom services industries. Kabira's "always on" technology has been deployed globally by more than 100 enterprises that need 24 x 7, mission-critical transaction processing capabilities. These enterprises include AT&T, Bank of America, France Telecom, NTT Data/CAFIS and VISA-US. Kabira is headquartered in San Mateo, CA, with offices worldwide.