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Next Generation Architectures

# **Reduce Pressure by Minimising Costs**

For the telecom industry, one effect of the recent global economic downturn is more focused management attention on cost reduction and operational ef-ficiency. This has put Billing and Customer Management (B&CM) systems in the spotlight as Communication Service Providers (CSPs) look to decrease their Total Cost of Ownership (TCO).

he resulting pressure to minimise costs must be alleviated without compromising the flexibility and scalability demanded by market evolu-tion and potential growth. It is here that next-generation B&CM system architectures will have a significant impact.

## NEIL PHILPOTT

#### Lower the Cost

Lower the Cost TCO spans both capital and operational cost, and has a number of components. The costs of software, integration, imple-mentation, maintenance, upgrades and operations effort all conspire to increase TCO. Next-generation systems can lower the costs in all these areas. Service subscribers have lots of choices. They find the right set of features that do not be the cost of choices of the top of the cost of choices.

Iney into the right set of reatures that suit them, passing up those that do not, so they pay only for what they actually use. Service providers who install mono-lithic B&CM systems are not offered this luxury. Often, the system comprises a single feature set with all the functional-ity included in the initial price regardless of whether it is used Next-neuration of whether it is used. Next-generation systems are modular - a CSP might choose initially to use the rating compochoose initially to use the rating compo-nent for example, and add billing func-tionality later. With a modular system, you pay only for what is being used in terms of software, implementation and operational costs, and not the entire

package

Typically, an initial systems implementation is a laborious process. The vast ma jority of current B&CM systems require customisation to provide the functional ity needed for a particular business. The Ity needed for a particular business. The business processes specific to a company are engineered into the system, which requires an in-depth analysis of the busi-ness processes followed by a system de-sign exercise, that locks the CSP into a specific business model. It is quite obvious that customisation adds to the crot of the immementation

adds to the cost of the implementation It is also typically a lengthy process, and It is also typically a lengthy process, and for a CSP rushing to enter a market and start generating revenue, every day spent on the implementation has a direct effect on the bottom line. Removing this customisation from the equation represents a Holy Grail. One in-reastingly roundlar approach is the dacreasingly popular approach is the de-ployment of rules-based systems. On a basic level, such systems let a CSP easily

define its business processes and the business it is in as rules that are executed business it is in as rules that are executed by the core system, without having to hard code these definitions into the sys-tem. With a rules-based system the core software code is the same regardless of the business model. Pre-configured business rules provide the building blocks for any CSP, making implementation as easy as selecting which configuration meets the business need.

Layers of Pre-configuration The first layer of pre-configuration is a common business framework. This in-

cludes the things that every business must do, such as handling late payers. A second layer of business rules then de-fines the type of business model the CSP operates, for example wireless, IP/data or integrated communications provider. integrated communications provider. Onto this layered pre-configuration, the CSP has simply to define those rules that make its business models emerge, new rules can be added to support them, without the need to code changes and, if desired, without the need to go back to the system vendrot to make the to the system vendor to make the change. Not only does this save money and time, it provides the CSP with the ability to change its business model with out having to rework the system at its core level, thereby yielding operational cost and time savings.

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System upgrades are today another sig-nificant cost. As new versions of the B&CM system are released, CSPs look long and hard at the expense of an upgrade and then weigh up whether the added capability is worth the effort. Up-grades can take months. It is much akin grades can take months. It is much akin to putting a new, improved tyre on a car but having to rebuild the car to do it. Next-generation systems cut the time needed to facilitate the upgrade to a mere handful of hours. All the business rules, business model configuration and company particulars remain the same The level of testing effort is then signifi-cantly reduced as the existing business rules are run unchanged on the new standard software core, both the busi-ness rules and the software core having previously been validated. The only

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changes that might be needed are those changes that might be needed are those to take better advantage of some spe-cific new function. The upgrade is fast, cheap and relatively painless as com-pared to that of older systems. Integration, too, can have a major bear-ing on cost. Integration delivers benefits by raising the level of automation and therefore mficinery of husinges noncesses therefore efficiency of business processes and removing scope for errors associated with re-keying information into standwith re-keying information into stand-alone systems. There are offen knock-on effects such as higher staff satisfaction resulting in greater staff retention, which minimises recruitment and re-training costs. However, generally integration so-lutions are quite proprietary and a change in one of the integrated systems. change in one of the integrated systems

can be a costly and time-consuming process

Reducing Time Next-generation systems dramatically re-duce the time needed to make integra-tion work. Open Application Program In-terfaces (APIs) allow integration with ex-isting legacy OSS so the next-generation R&CM system can interproceate with B&CM system can interoperate with other components of the OSS portfolio other components of the USs portolio. Furthermore, the next-generation B&CM system's API set can be extended simply by defining new business rules, without the need for code changes. Enterprise Application Integration (EAI) technology then enables integration points to be de-fined to major providers (Tibco, Vetria, WehMethork and MOSeries for exam-WebMethods and MOSeries, for exam ple) via simple-to-build connectors. Inteple) via simple-to-build connectors. Inte-gration of the B&CM system with other OSS components is then handled through business rules (again, this time configured in the EAI tool). When it comes to day-to-day operations, next-generation B&CM systems also af-fect earth build improving ourgoall unability

fect cost by improving overall usability. Being business-rules driven, the system is simplified and provides greater throughsimplified and provides greater through-put. It is also easy to maintain so it re-quires less manpower. Additionally, the improved usability allows for rapid changes to seize revenue opportunities as they occur. It is possible to add literally bundend of new consider to the billion of the second hundreds of new services to the billing system in a matter of a few days.

Supporting Customer Self Care er feature of next generati

Another feature of next generation B&CM systems is the capability to sup-port customer self-care. Pushing cus-tomer-management functions out to the customer provides a "win-win" solution.

Now in its 10<sup>th</sup> year, IIR's Billing Sys-tems Conference and Exhibition is firmly established as the largest and most important event in the Euro-pean Billing calendar. For further details contact billing@telecoms.iir.co.uk tails Contact billingsystemes.com. or visit wawwiin-billingsystemes.com. This article has been written as part of a series of articles for Billing Sys-tems 2003 – the largest and most important event in the European Billing calendar, running 13<sup>th</sup>–16<sup>th</sup> May 2003, Earls Court Conference & Exbibition Centre London waw jii-Exhibition Centre, London www.iirbillingsystems.com ADC is an exhibitor at Billing Systems 2003

The customer's experience is enhanced The customer's experience is enhanced as they are more in control and able to manage their own affairs. The CSP bene-fits from greater customer loyalty and in-creased spending while at the same time reducing its customer-service costs. Unlike legacy systems, next generation B&CM systems take into account rapidly shifting telecommunications business shitting telecommunications business models. They adapt at the pace of the market while legacy systems have to build extensive and expensive bridges to a more dynamic market. The speed, flexi-bility, adaptability and usability of next-generation B&CM systems all affect TCO. These extense are pace to install are These systems are easy to install, are highly flexible and provide the scalability highly flexible and provide the scalability needed to compete in a vigorous arena. Choosing the right B&CM system is a strategic decision. Next-generation sys-tems not only lower TCO, they position CSPs for the delivery of value-added ser-vices which are critical to revenue gener-ation and reducing the TCO of the entire stored through organic rulisation. Illitnetwork through greater utilisation. Ulti-mately, next-generation systems reduce TCO by reducing both direct and indirect osts and adding value. Both are neces sary to help CSPs compete successfully

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