
JePullen

OSS System & Platform Architectures

With OSS solutions delivering business critical processes for service delivery it is essential that the system's architecture be efficient, secure and future-proof. J E Pullen helps communication service providers, software vendors and system integrators to solve architecture and integration challenges specific to OSS.

J E Pullen can help you to:

- ▶ Ensure security and reliability by deploying on appropriate enterprise-class infrastructure
- ▶ Deliver improved OSS performance from process analysis and tuning
- ▶ Create blueprints for OSS system integration projects
- ▶ Maximize the potential of your existing OSS systems through integration and upgrade
- ▶ Evaluate the value to your business of emerging OSS standards

Unique Architectures for OSS

When adding a new business process or network model to an OSS solution the design effort normally centers on functionality. This is, of course, important, but so too is the impact on how the software and hardware systems work together to support this functionality. Architectural changes must be considered at the earliest design stages. James Pullen, company founder, elaborates:

"OSS processes and data are unique to this industry, and totally different from other enterprise systems such as ERP, CRM or billing. Everything from the design of your business processes down to the configuration of your server's disc arrays will have an effect on how your OSS solution will work. Significantly, all the components and integration points in the architect are interdependent: A small change in your inventory model, for example, can result in a big change in how your server's I/O performs. Now, add in the complexity of real-world system deployments, with different user profiles, multiple integration points and the need for platform resilience. I would advise anyone involved in design or delivery of OSS to think early and think carefully about your OSS architecture."

If the architecture design is not keeping up with the functional design you will experience issues such as:

- ▶ Real-world performance that doesn't meet the expectation set by synthetic benchmarks
- ▶ Network models that don't offer scalability or process concurrency
- ▶ Flexible system interfaces using the latest technology, but unsatisfactory integration through-put
- ▶ Security policies that encourage extreme 'all or nothing' access to data
- ▶ Limited options for implementing fault-resilient platforms

How J E Pullen Can Help

J E Pullen provides a design perspective combining OSS process, OSS data and OSS architectures. J E Pullen can support your requirements for short pieces of platform analysis up to a complete review of your OSS architecture.

Example projects include:

- ▶ Resolving specific performance issues through analysis of process, data models, platform architecture and database tuning
- ▶ Specifying data model extensions to support new network technologies and services
- ▶ Providing integration blue-prints for cross-system processes and data exchange
- ▶ Design and implementation of flexible security policies for users and trusted third-parties
- ▶ Advice on balancing risk and economic factors when implementing stand-by and disaster-recovery systems

J E Pullen brings years of platform architecture, integration and product management experience to focus on the challenges maximizing OSS efficiency. Find out more by contacting info@jepullen.com
