

## *Rich Salz*

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### ***AKAMAI TECHNOLOGIES***

***October, 2012 to present***

As Principal Engineer, worked on improving security and its ease-of-use for Akamai staff and customers. Added proper CPU scaling for different cryptographic key types and sizes. Created “cipher profiles” so that Akamai could scalably manage preferences while allow per-customer decisions. Defined certificate validation requirements and configuration for customer origins. Continued work on OpenSSL, including key role in leading the project back from its malaise after HeartBleed. Drove decision that resulted in Akamai funding OpenSSL to implement TLS 1.3, and worked to make it generally available to all customers, as opposed to opt-in.

As Senior Architect, led Akamai to become a founding sponsor of LetsEncrypt and am co-chair of the IETF WG defining the protocol. Designed Akamai’s implementation of FIPS within the customer Portal and the HTTP proxy that is core to the CDN services. Act as Akamai’s representative to the OpenSSL FIPS project. Extensive involvement in TLS and other specifications and implementations.

### ***IBM***

***November, 2005 (after IBM acquisition) to October, 2012***

As Senior Technical Staff Member, had design responsibility for the DataPower product line, oversight of implementation, and general technical leadership. Did system design of the BladeCenter product, integration with System/z. Participated in many customer briefings, conference appearances, and so on.

Architect and technical lead to build a new platform for IBM business machines, or “appliances,” for use in enterprise data centers. Team was small and highly focused; first release was made available to two new IBM products in under six months. Worked with several other potential appliance product teams to define requirements, etc.

Member of the IBM security patent evaluation team. Other responsibilities include working with the IBM export office, open source compliance, and internal business controls teams. Member of seven-person team to receive an IBM Corporate Award for “putting the company back into the profitable business of selling ‘business machines’ on a global stage.”

### ***DataPower***

***March, 2002 to October, 2005***

As Chief Security Architect, was first employee for the “XS” product, the first and dominant XML security gateway. Interviewed all team members, designed the product. Involved in all aspects including development, technical leadership, partnership and business development, pre-sales support, etc.

### ***Zolera Systems***

***May, 2001 to March, 2002***

As Co-founder and CTO, designed platform for building a suite of web services oriented toward providing cryptographic and security features to applications. Unique aspects included complete server maintenance of all private keys. The platform was built on the Apache web server, the OpenSSL cryptographic toolkit, and the Python scripting language.

**CertCo****November, 1997 to May, 2001**

As Architect, designed and led implementation of OCSP responder. Unique features included integration of hardware cryptographic token into OpenSSL package, LDAP interface and integration, signed audit logs, and scalable multi-threaded architecture for both Unix and NT versions. Helped design the public-key infrastructure, standards specification, and actual technology behind the Identrus bank consortium.

**The Open Group****May, 1992 to October, 1997**

As DCE Technical Lead, had Open Group architectural oversight and responsibility for review of designs and implementations. Broad technical involvement in public-key and other security technologies, ActiveX/DCOM, CORBA, and other Internet technologies and how they relate to DCE. Other projects include high-performance DCE/Web server, DCE host daemon, DCE messaging and serviceability library, and design of server-storage and access-check libraries.

**Other Information**

Extensive industry and standards involvement, including heavy involvement in the IETF. Previously involved in OASIS, and the "XML Web Services" standards and several W3C efforts. Balanced standards development with real-world implementation and deployment.

Long-term involvement with OpenSSL open source cryptography/TLS toolkit, including non-coding efforts such as leading the conversion to the industry-standard Apache license, managing finances, and setting up many industry liaisons.

Original author of INN, the world's most popular, efficient, and fastest Usenet implementation.

Well-regarded industry speaker including multiple presentations at RSA and Linux Foundation conferences. Former columnist for O'Reilly's xml.com website; other bylined pieces as well. Contributor to The Unix-Haters Handbook (IDG Books, 1994).

Attended MIT.