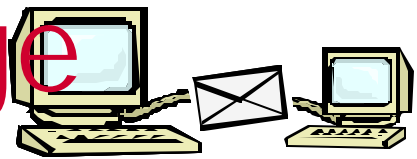




The Open Group EMA Forum

The Message



Volume 1 Issue 3

November 2001

EMA Secure Messaging Challenge Reports Progress

by *Dean Sepstrup*, The Boeing Company

Amsterdam, the site of The Open Group's most recent conference, provided Dean Richardson (chairperson, The Open Group, EMA Forum) and me the opportunity to update interested members and guests on the EMA Secure Messaging Challenge status. During two formal presentations, we interacted with approximately 40 people. We talked with even more potential participants during the evenings and at the social events. The outcome from these activities is positive for recruiting members to and the progress on the Challenge.

Dean Richardson focused his presentation on the benefits of joining the Challenge.

Dean noted that the EMA ceased operations in December 2000, and transitioned its activities and IP to The Open Group but that The Open Group did not purchase the EMA organization.

The Open Group EMA Forum was created in January 2001. The EMA Forum is largely customer based, with a focus on solving business problems, educating, and defining standards and best practices.

The EMA is a member of the World Electronic Messaging Association (WEMA).



Dean described WEMA as a virtual organization, comprised of

the various worldwide EMAs, whose purpose is to promote the use of electronic messaging throughout the world, including but not limited to developing and approving standards.

WEMA members include:

- Asia Oceania Electronic Messaging Association

- Brazilian Society for Open Systems Interconnection
- E-Japan
- European Electronic Messaging Association
- The Open Group EMA Forum
- Tradegate ECA (Australia)

After the background and history, Dean launched into the challenge:

"To enable organizations to exchange strongly encrypted

(see Challenge, page 4)

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Message Board

The world has seen some incredible events since the last “Message Board”—some horrific and some heroic. The information technology industry has also faced many tough challenges recently, from reconstructing data centers to reconstructing our stock market infrastructure.

While the term Active Loss Prevention may have been on the corporate radar before September 11, it certainly has become a top priority now. Many organizations not directly involved in the New York incident are asking their IT departments if they are prepared to deal with such a situation without data loss. Many are. Unfortunately, many are not.

On a much more positive note, it was really pleasant to leave September 11 issues behind for a week and attend The Open Group conference in Amsterdam where I met with colleagues and friends to discuss issues affecting the future. Speaking of which, the EMA forum has really picked up the momentum in the last few months, and the EMA Challenge (architecture to exchange strongly encrypted email between multiple companies) is proceeding at full throttle. Plans are still in place to demonstrate the architecture at the January 2002 Open Group conference in Anaheim, California.

At the Amsterdam conference, our European colleagues offered the Challenge considerable input and feedback. Issues were raised that the project team hadn't fully considered—those are now being worked. We added several new participants to our team; speaking of which, it is not too late to join the Challenge team! Visit us www.ema.org/challenge.

Join at whatever level you are comfortable with—from full test participant to bystander! Contact me at dean.richardson@boeing.com to join.

See you in Anaheim!



Dean Richardson

Memorable Messages

From Fast Company's Fast Take (on-line newsletter)

“The United States is like a gigantic boiler. Once the fire is lit under it, there is no limit to the power it can generate.”

Winston Churchill

“There's a real blurring between the definitions of 'war' and 'peace,' 'domestic' and 'nondomestic,' 'economic' and 'military.' All of this means that we need to be able to thrive in uncertainty.”

General Peter Schoomaker



The Open Group EMA Forum

The Open Group's EMA Forum is a leading association for the e-business and messaging industries.

The Forum's

diverse membership focuses on providing interoperable solutions for business leaders through informing and educating, fulfilling customer driven requirements, promoting and endorsing standards based solutions, and influencing public policy.

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The Message

is published bi-monthly by the

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Active Loss Prevention Highlights

by *Dean Richardson, The Boeing Company*

Truth be told, I admit that I did not sleep as much or as soundly on my flight from Seattle to Amsterdam as I normally would. While I thoroughly enjoy flying, this was my first trip after the events of September 11, and I found it difficult to feel completely relaxed. Fortunately, the feelings of uneasiness were completely gone by the end of the week and the trip home felt like business as usual.

Allen Brown opened the conference on a rather somber note by welcoming and thanking us for attending, especially considering recent activities. He then stated how topical it was that the theme of this conference is Active Loss Prevention.

The first speaker, Dr. Bill Hancock, CISSP, Senior Vice President of Security and Chief Security Officer, Exodus Communications Inc. shared his experience with a distributed denial of service attack affecting Exodus and its customers. He spoke of how difficult it was to get security dollars before the

incident and how easy it became after it was realized first hand how debilitating a simple distributed denial of service attack can be. He also spoke of how our infrastructures are traditionally designed as an environment where everyone “plays nice” and there needs to be more control over those that do not. Bruce Schneier, Founder and Chief Technical Officer, Counterpane Internet Security Inc. Bruce echoed Bill Hancock’s assertions that security is mov-



ing from bad to worse. Perhaps the most enlightening slide of Bill’s presentation showed

the relationship between intruder knowledge and attack sophistication. Bruce states “Monitoring is the feedback loop that makes all network security activities more effective.” He also strongly believes that “in the real world, security is always outsourced.”

After the break, Allen Brown interviewed Jeff Rulifson, Director, Sun Labs (Europe),

and Chairman of The Open Group Governing Board. Jeff offered comparisons between the infant information technology, and the mature technology of fire protection. He related how fire protection is now very proactive in that rigid standards are established that must be adhered to, whereas few standards exist for computer systems.

In his presentation, Jacques Francoeur, CEO, Chief Trust Officer Inc. suggested there are three enforceability requirements of electronic business process:

- Process—Execution method
- Evidence—Demonstration ability
- Technology—Trust standards

Jacques asserted there are six operational eRisks:

- Identity
- Information Integrity
- Time of Event
- Enforceability
- Confidentiality
- Data Privacy

Matthew Yeo, Associate, Steptoe & Johnson LLP was the first of two attorneys to address the legal aspects of digital identity, signatures and trust. He questioned whether there was a particular type of signature technology required by law for a transaction, and whether a universal PKI solution would work.

(see Active Loss Prevention, page 6)

(Challenge, continued from page 1)

email using a standards-based, vendor neutral architecture that does not require manual key exchange.”

He said that this is a focused effort that is not solving all PKI issues. During the presentation, Dean asked, “How did this come to be the Challenge for Boeing?” He answered, “Because we can’t effectively do business without it.”

To support the answer, Dean cited the following issues:

- Nonworking or cumbersome current manual mechanisms
- Support for every vendors’ proprietary system is not practical
- Presence of a pressing need to protect even basic information such as executive itineraries and teleconferences

Dean went on to summarize key points concerning the Challenge. He identified the goal as one standards-based perimeter architecture, with the internal architecture out of scope—we only need to ensure consistency at the perimeter. This solution must be vendor neutral because environments differ. Requiring a particular product will not be acceptable.

Dean said that all products examined in the challenge must be available and supported at the time testing is conducted, have

publicly available patches for any performance issues, and must be publicly developed and adopted. He also discussed how developing this standard in the open requires input and agreement from a wide audience.

Once Dean clearly stated the goal, he moved on to the keys to success. The architecture resulting from this Challenge must be declared a “standard.” He stated that the EMA Forum would produce a comprehensive “toolkit” and that the various forums of The Open Group would review and endorse the Challenge results.

Dean described the Challenge’s approach: included in the testing process is

a peer review and endorsement by industry experts. As the chair of the EMA Forum, he said that the EMA plans to endorse this as a “Best Current Practice,” along with The Open Group. Follow-on activities must provide a method for testing and certification through The Open Group, to provide a certification path that will lead to publishing a “certified product” list, similar to the Directory Interoperability Forum’s “works with LDAP” branding.

The crux of Dean’s presentation

was: We need YOU! He pointed out that this is everyone’s chance to provide input, that they can ensure this solution addresses their organization’s needs by joining the team. He emphasized that there were many ways in which to participate, and at a level that’s comfortable—as a full tester, or simply to keep abreast of the progress. He asserted that there is a huge payoff and asked the pointed question: “How many different solutions do you want to support?” Putting his Boeing hat back on, Dean said from that perspective, success will be based largely upon en-

endorsement and that the number of companies endorsing this will directly affect our ability to convince our busi-

ness partners to use it.

Dean reviewed the general requirements for Challenge team membership:

- Maintain Open Group membership
- Sign a Challenge non-disclosure agreement

It’s that easy.

Deeper involvement as a test participant further requires the following actions:

(see Challenge, page 5)

“ . . . this is everyone’s chance to provide input. . . ensure this solution addresses their organization’s needs. . . . We need YOU!”

(Challenge, continued from page 4)

- Establish certificate trust relationship with each partner
- Accept the Challenge Relying Party Agreement
- Maintain your directory
- Submit the Challenge technical survey form.

Dean summarized the technical requirements:

- X.509 v3 CA Services
- Self-signed or purchased commercial certificates
- RSA algorithm with minimum 1024-bit key length
- Standards-based directory services accessible via the public Internet
- Certificate stored in standard userCertificate attribute
- S/MIME compliant messaging client
- Capability of requesting certificates from the directory
- S/MIME compliant email system
- Current standards regarding S/MIME, X.509 v3 and LDAP v3

The Challenge is open to commercial-off-the-shelf or open source products only.

Dean closed his presentation by stating that this is not merely a “proof of concept,” that the output of this Challenge will be a working architecture. He emphasized that The Boeing Company plans to implement this architecture and will encourage its business partners to adopt this architecture as their standard 

Meet the EMA Challenge Co-Chair

Dean Sepstrup is a project manager with the Enterprise Messaging organization of the Shared Services Group of The Boeing Company. He coordinates all messaging client configuration, testing, and certification within the company. His position involves working with internal customers and external vendors.



Dean has been with The Boeing Company for more than 15


years, serving in various IT roles.

Starting in Industrial Engineering, Dean developed process models and applied data processing methods to complex problems. He then moved into a lead role, supporting corporate security desktop and mini-computers as well as managing the overall IT budget.

Prior to his current role in Enterprise Messaging, he fulfilled the role of project planner for the Payroll organization as they migrated from a legacy system to PeopleSoft.

Dean says, “Boeing has provided so many different opportunities for me. From working on a B-2 bomber while in IE to a tour of our Satellite Systems division where I stood within reach of a unit that will soon be in geosynchronous orbit (after meeting with them about merging our email systems), I look forward to new frontiers each day.”

Dean is currently co-chair of the EMA Secure Messaging Challenge. He believes that the opportunity the EMA Challenge offers to help simplify the exchange of encrypted email


is one more way to help his company remain competitive in a demanding market 

(Active Loss Prevention, continued from page 3)

Robert Carolina, Partner, Tarlo Lyons addressed cross border certification and the legal challenges associated with it. Robert made some key points with his demonstration of three parties, one of which was a third party relying, each in different political regions. He demonstrated how sometimes it was unclear if contracts exist between parties.

Lisa Hansford-Smith, Marsh PLC, discussed issues surrounding insurance and e-commerce. She noted that 67% of businesses surveyed reported serious computer crime in the past 12 months, and in spite of this many company boards have not considered cyber risks. Rather than relying on a properly thought out risk management strategy, the boards are relying on technological fixes.

Martin Kendrick, MD, Brand Communications stated that “less than 20% of WLAN users deploy any encryption and 50% of networks in the U.S. next year will have some WLAN. In addition, AT&T took about two weeks to set up a test and then two hours to crack WEP encryption—we can now do it in 4 minutes and 6 seconds.”

The above presentations reinforce the need for active loss prevention, and further, show how active loss prevention ties into each area and forum of The Open Group 

Capitol Message

International Herald Tribune, “the end user,” October 15

Senator Judd Gregg (Rep.-NH) urged a worldwide ban on codes that do not have a “back door” allowing governments to read encrypted messages. The senator told the Senate that the ban was necessary “. . . to get the information that allows us to anticipate and prevent what occurred in New York and Washington.”

What about outlawing codes that cannot be broken? With the invention of public key cryptography 25 years ago, Washington declared crypto research a matter of national security. As recently as a few years ago, government organizations including the National Security Agency, as well as members of academia and the press, were engaged in the debate about restricting strong cryptography.

The conclusion reached was that strong crypto unencumbered with government back doors was the best way to operate.

What about other countries?

During the second week of October, the Dutch government announced that it wanted to enact controls because “we have to find some way to give intelligence services access to encrypted communications.”

Electronic Privacy Information Center (EPIC), November 2

Documents EPIC obtained reveal that the Chair and Vice

Chair of the National Security Telecommunications Advisory Committee lobbied in support of a “cyber security” exemption to open government laws and that President Bush now also supports the exemption.

Relating to a piece in [The Message](#), Volume 1, Issue 2 (September 2001), Capitol Message on the “key logger system,” is news that in early October the FBI disclosed some details of the system used to obtain the encryption password of a criminal suspect. The government argued successfully that full system details are classified, thus preventing disclosing them to the defense.

In mid-October, the White House released an executive order, Critical Infrastructure Protection in the Information Age, which creates the “President’s Critical Infrastructure Protection Board” to coordinate federal efforts and programs to protect information systems.

The Wall Street Journal, e-world, November 12

Rethinking information as a weapon since September 11, has led several government Web sites to pull information from their pages, citing security issues. For example, the Department of Transportation eliminated pipeline maps, and other agencies removed data about hazardous materials.

Industry Message

The CIO Insider, August 30

Denial of Service Estimated losses from the rash of distributed denial of service attacks that downed big sites like Yahoo and eBay in February 2000, came to \$1.2 billion. With hacker attacks on the rise, that number can only go up. Somebody at some point has to pay. Who should cover the damages businesses incur when denial of service attacks take them down?

The CIO Insider, September 24

Privacy Regulations Investing in privacy is critical to maintaining customers and revenue and a lack of privacy regulations will hurt e-commerce, according to 91 IT professionals surveyed in August. Approximately one-third of the respondents reported having been affected by health care industry privacy regulations and approximately one-fifth reported having been affected by financial privacy regulations.

The CIO Insider, October 16

email Managing email is primarily a people issue, not a technical one.

The International Herald Tribune, November 6

Privacy Since the attacks on September 11, security experts and commentators have criticized companies that provide tools that ensure privacy on the Internet. Criticism has sug-

gested that by selling tools that can hide terrorist acts, companies are actually helping terrorists.

Even before September 11, companies began shifting their focus.

- Zero-Knowledge Systems, Inc. will shut down its Freedom Network.
- Network Associates is seeking a buyer for PGP because it found few consumers were willing to spend the time or money to learn a cryptography program.

While corporate moves away from investing in security may shift, the issue of privacy won't go away says Lance Cottrell, founder of Anonymizer.com. "In many ways, personal privacy is, if anything, more important than before."

The International Herald Tribune, "Bztech," November 16

Instant Messaging Businesses in the U.S. have been adopting instant messaging at increasing rates and Europe's workplaces are now picking up the pace. "The basic use is to check whether your colleagues are available to ask for a short piece of information," says Mr. Mats Carduner, director general of the French unit of the online recruitment service Monster.com.

Anticipated growth of this communication method will soon match the prevalent use among friends and family.

(Note: The January 2002 issue of **The Message** will feature an article on instant messaging in the workplace by Matthew Smith, CEO of PresenceWorks. Also note cio.com/metrics on page 8.)

Message Corner

From CIO Sound Off

"Information security is going to be the defining technological problem of the next 10 years, so it follows that most CIOs will want to keep it in their department, where they can set policy and oversee implementation. But just as e-business was about more than IT and thus demanded a greater corporate profile, doesn't security?"

From CIO Security and Privacy Research Center, Alarmed

"'As much as I don't like the intrusive nature of on-line surveillance technology, I really want to find the guys who did this,' one security director at a midsized ISP told The Washington Post, echoing the thoughts of many ISP executives suddenly not so begrudging about e-mail surveillance." *Sarah D. Scalet*

From CIO Security & Privacy Update

"Right now security is important. But will anything change? Who knows? Ask me in six months. . . . If you're willing to fly planes into buildings cyberterrorism is kid's stuff."

Bruce Schneier

Upcoming Events

- 21-25 January 2002** Quarterly Conference
Anaheim, CA
- 22 January 2002** EMA Secure Messaging Challenge
Demonstration and Cocktail Reception
Anaheim, CA
- 23 January 2002** Identity Management, Joint Meeting of
EMA, Directory Interoperability, and
Security Forums
Anaheim, CA
- 8-12 April 2002** Quarterly Conference
Brussels, Belgium
- 22-26 July 2002** Quarterly Conference
Boston, MA

Peak at Integrated Information Infrastructure (In3)-2002

Perhaps The Open Group's January 2002 conference, "In3," in Anaheim, home of Disneyland, should be considered "In4," the nexus of integrated information infrastructure and imagination.



"It's a small world after all," the refrain from the theme park's most popular ride "It's a Small World," aptly describes the work of The Open Group in bringing together people around the world through integrated information infrastructure. The Disneyland ride, which is easily

accessible from the conference hotel, the Hilton Anaheim, regarded as the most complete hotel in Orange County, showcases peoples from many countries and cultures, emphasizing, as The Open Group does, people as members of distinct communities creating a global community.


The January conference is designed to help businesses:

- Improve business process performance
- Decrease IT costs
 - Improve business operations effectiveness
 - Improve IT organization effectiveness
 - Improve management efficacy
 - Reduce risk



Customers, suppliers, and integrators have the oppor-

tunity to come together to partake of The Open Group's program offering sessions along three tracks:

- **Information Integration**
Address challenge of integrated information and integrated access to that information
- **Business Scenarios**
Focus on scenarios that facilitate effective customer/supplier communication
- **Certification/Standards**
Outline critical role of standards and certification in enabling systems integration and enhancing business practices 

Message Metrics

cio.com/metrics, October 10

B2C By 2006, on-line auctions will account for 25 percent of B2C sales.

cio.com/metrics, October 17

Instant Messaging By 2003, 70 percent of enterprise employees are expected to use free instant messaging services for business purposes.

cio.com/metrics, November 6

Unified Messaging By 2005 the unified messaging industry will grow from \$290 million in revenues (2000) to more than \$6 billion, driven mainly by telecommunications providers in their efforts to retain customers by offering UM as an added services.

For your interest—The Message body text is "A Caslon Regular" and headline text is "Broadband ICG."