Tutorial Form

Title: Developing a Web server in Ada with AWS.
Presenter: J-P. Rosen
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Requested level: Intermediate

Background:
Regular knowledge of Ada programming.
No previous knowledge of Web programming or HTML is required.

Abstract:
This tutorial describes AWS, the Ada Web Server, and how to use it for the development of web applications. It describes the principles of AWS, from the most basic functionnalities to the more advanced ones (Authentication, SOAP interface, session management, hotplugs, multi-server applications, etc.) The seminar emphasises practical usage of AWS, and presents design patterns that have proved effective for developping existing applications. It compares the development process with AWS to other techniques.

The tutorial provides attendees with the information needed to assess whether AWS is appropriate to their needs, and the necessary knowledge to start writing full-scale Web applications.

Presenter summary
JP Rosen is a professionnal teacher, teaching Ada since 1979 (no typo here, it was preliminary Ada!). He runs Adalog, a company specialized in providing training, consultancy, and services in all areas connected to the Ada language.
He has developed a complete application with AWS for Adalog's internal usage (paper presented at SIGAda 2003).

Why you should participate in this tutorial? Because AWS represents a new advance in Web applications development. Rather than having a heavy-wieght server like Apache, and scripts in various languages, it allows the development of stand-alone web servers dedicated to a single purpose, fully written in one language: Ada.

Although AWS can be used to develop conventional Web applications, it opens up new possibilities: Regular applications that use a Web interface and a browser as the GUI; Distributed applications that communicate through an HTTP link; Client/server applications that need to be accessible by several users at the same time; Mixed applications, where the web interface is only part of the job, like a control/command system which is remotely monitored through a web interface, and more!

Participants to this tutorial will not only learn how to use AWS, they will discover a new approach and new possible solutions that are applicable to a wide range of applications.