

Press Release – ObjectSecurity presents SimulateWorld™ and secure middleware products to UK press

(Cambridge/UK – 09 November 2006) – ObjectSecurity, the leading solutions provider for secure information sharing in mission-critical industries such as air traffic control, today presented an animated virtual reality demonstration of their SimulateWorld™ software to the press at the St. John's Innovation Centre Press Information Day, Cambridge (UK). The following official press information was provided to the attending journalists, including BBC, British Satellite News, Anglia TV News, Computing, British Computing Society, silicon.com, Personal Computing World, IT Week, Electronics Weekly, Personal Computer World, Business Weekly, IET and European Industrial Research Management Association:



SIMULATEWORLD ALLOWS MODELLING OF DISASTER RESPONSE

ObjectSecurity enables integration of secure systems

A suspected terror attack on the runway of a busy airport requires a number of disparate organisations to work together effectively. At present this type of collaborative data sharing and decision-making is problematic. So to address this, Cambridge-based ObjectSecurity has developed SimulateWorld, which first models the interactions in virtual world and then, once accepted, can switch to live operation in the real world.

Dr Ulrich Lang of ObjectSecurity observes that it is difficult for air transportation providers, security services, and emergency services to create secure systems that also enable fast, integrated communication:

“It is vitally important for the involved agencies to ‘pull together’ data from a multitude of sources to form a real-time picture of the operations area. But due to current lack of an appropriate and interoperable infrastructure these organisations are often forced to revert to low-tech communication.”

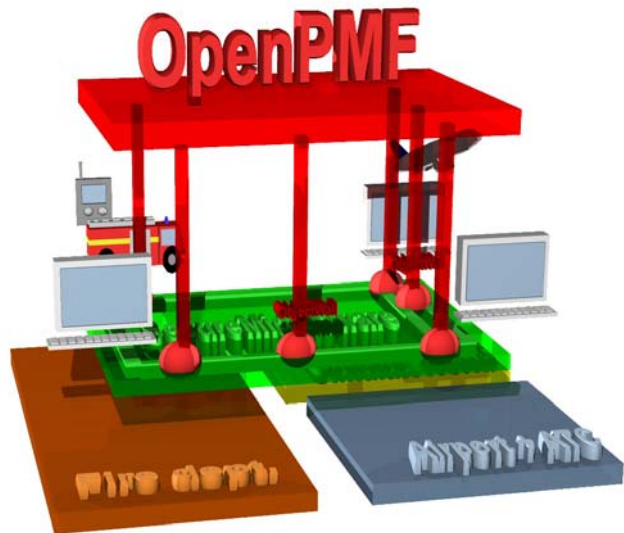
“SimulateWorld is a rapid prototyping, modelling and simulation environment which enables the different agencies to see how the secure integration between their systems could occur. All the players can be remote controlled and the sensors can be remotely read to show the possible outcomes. When the system is accepted, the virtual world is simply ‘unplugged’ and the sensors connected to real-world sensors without affecting the information sharing infrastructure. This is possibly because SimulateWorld is built using ObjectSecurity’s state-of-the-art secure integration products SecureMiddleware, OpenPMF, and ObjectWall.”

Dr Lang sees applications in air transportation, security and emergency services and the military.

“Air transport operation requires collation of information about passenger and vehicle movements from the airport computer systems, radars and manual input. This data is then used for capacity planning, usage charging, flow optimisation as well as serving many vital safety and collision avoidance functions.”

“Think how much more effective the operation of the airport would be if the information could be accessed and processed in real-time. With reliable information operations can be faster, more accurate and more coordinated than the current ‘procedure based’ operations and responsive in times of emergency or capacity bottlenecks.”

The simplified demonstration scenario illustrated how SimulateWorld and the secure information sharing product suite (SecureMiddleware, OpenPMF, ObjectWall) can be used to simulate emergency response. In the scenario, an aircraft malfunctions during take-off with smoke coming from an engine, which forces the pilot to stop take-off. The airport and air traffic control raise an alarm, which is automatically shared with the fire department. The fire department in turn automatically informs the two most appropriate fire engines and shares the information about the incident (nature of incident, location etc) with the fire engine's on-board units. The fire engine drives to the emergency site and deals with the fire.



The scenario shows the animated 3D virtual reality capabilities of SimulateWorld (back, right in the diagram) within the described scenario, as well as the ease of use for prototyping secure information sharing. SecureMiddleware (green layer) securely connects all information flows. ObjectWall protects the organisational boundaries between the involved stakeholders. OpenPMF (red layer) provides central, consistent security administration for the entire system. Its plug-ins (shown as red spheres) intercept the information flows at various points and enforce the consistent policy.

One of the main differentiators with other simulation products is that SimulateWorld provides sensor information in the same way as the real world (e.g. GPS, radar). These sensors are integrated with the secure information sharing architecture through ObjectSecurity's secure middleware technologies in the same way the real world is integrated. One of the main intended uses of SimulateWorld is the demonstration of secure information integration prototypes before they get deployed in the real world. This makes it a critical tool to get stakeholder buy-in, especially when several agencies are involved.

To learn more and get started, we invite you to talk with us about the solution that works for your needs and environment.

Please contact us at: info@objectsecurity.com.

www.simulateworld.com