



> SOA Jumpstart  
for Federal Projects

IONA Technologies August 2007

Jumpstart Guide



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Making Software Work Together™



# Making Software Work Together

## Customers include world's largest firms

- ❑ 80% of Global Telecom
- ❑ 70% of Financial Services in Global 100
- ❑ Blue Chip Partners



## Worldwide presence

- ❑ EMEA HQ in Dublin, Ireland
- ❑ US HQ in Massachusetts
- ❑ APAC HQ in Tokyo, Japan

## Solid business with a history of profitable growth

- ❑ Founded in 1991
- ❑ Publicly traded since 1997
- ❑ Strong balance sheet

NASDAQ:IONA

## The IONA Approach

- ❑ Deliver high performance integration software for mission critical applications
- ❑ Make heterogeneity an asset, not a liability
- ❑ Deliver on the value proposition of standards



# IONA Customers



中国移动通信  
CHINA MOBILE



RAYMOND JAMES



S.D. Indeval  
Mexico



LEHMAN BROTHERS



**NOKIA**  
Connecting People



Posteitaliane



Deutsche Post 



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## WHY IONA?

### Imagine a SOA Environment.....

- › That you could easily assemble necessary parts
- › That could be source-available, community developed
- › That removed the expensive cost of entry barrier for SOA
- › That maintained dedication to standards
- › That was backed by an enterprise class support organization



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# Federal Jumpstart Program

Acceleration of SOA adoption

- › A Federally-applicable demonstration delivered as a non-intrusive, disposable, pre-configured virtual appliance
- › A reference implementation designed to encourage incremental adoption of SOA components
- › A “sandbox” environment for SOA experimentation
- › Demonstration of IONA’s distributed SOA infrastructure

**NOW AVAILABLE**



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# Jumpstart Program



Reference Implementation of the following:

- › JAX-WS – PORTED TO FUSE
- › SOAP
- › WSDL
- › JMS
- › JAVA
- › JAVASCRIPT
- › Eclipse – based tooling
- › Plug-in microkernel architecture

An open sandbox  
On a variety of Oss  
With a working demonstration  
For a variety of use cases



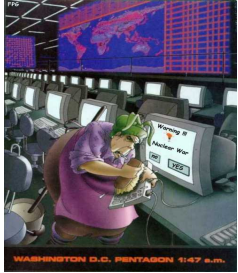
# The Use Case



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# The Jumpstart Defense Command/Control Center

Theater Operator



Asset information and operator Initiated Threat Alerts



DECISION CENTER



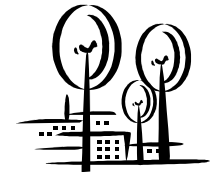
CIA Imagery System  
Java

Which direction?

Intruder. Fleet under Attack. What to do?

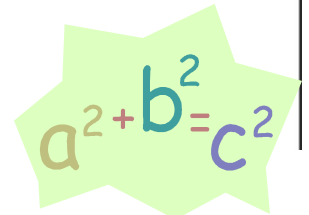
← The Decision

Check Weather threats



Check Weather  
Java

Calculate threat's attack time



Attack Calculation  
System  
J2EE

Incoming Entity/Asset's Locations

Command Center

Go/NO GO Command



Mobile Asset/Fleet



Pentagon  
Joint Forces





# The Implementation

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# JUMPSTART USE CASE - Demo

FUSEJumpstart2.0 VMware Player

CD-ROM (IDE 1:0) Ethernet Sound Adapter

Threats Messages Logs

Latitude: 38.9  
 Longitude: -77.04  
 Radius: 30  
 Delay: 30 seconds  
 Start Stop  
 Update now  
 Default settings

Assets and threats

Attacked	Threat	ID	Type	Lat	Lng
<input type="checkbox"/>	<input type="checkbox"/>	Badguy	Rocket	38.9721	-77.0374
<input type="checkbox"/>	<input checked="" type="checkbox"/>	East	Tank	38.8974	-76.5152
<input type="checkbox"/>	<input type="checkbox"/>	West	Tank	38.8974	-77.5596
<input type="checkbox"/>	<input type="checkbox"/>	Goodguy	Platoon	38.9042	-77.0374

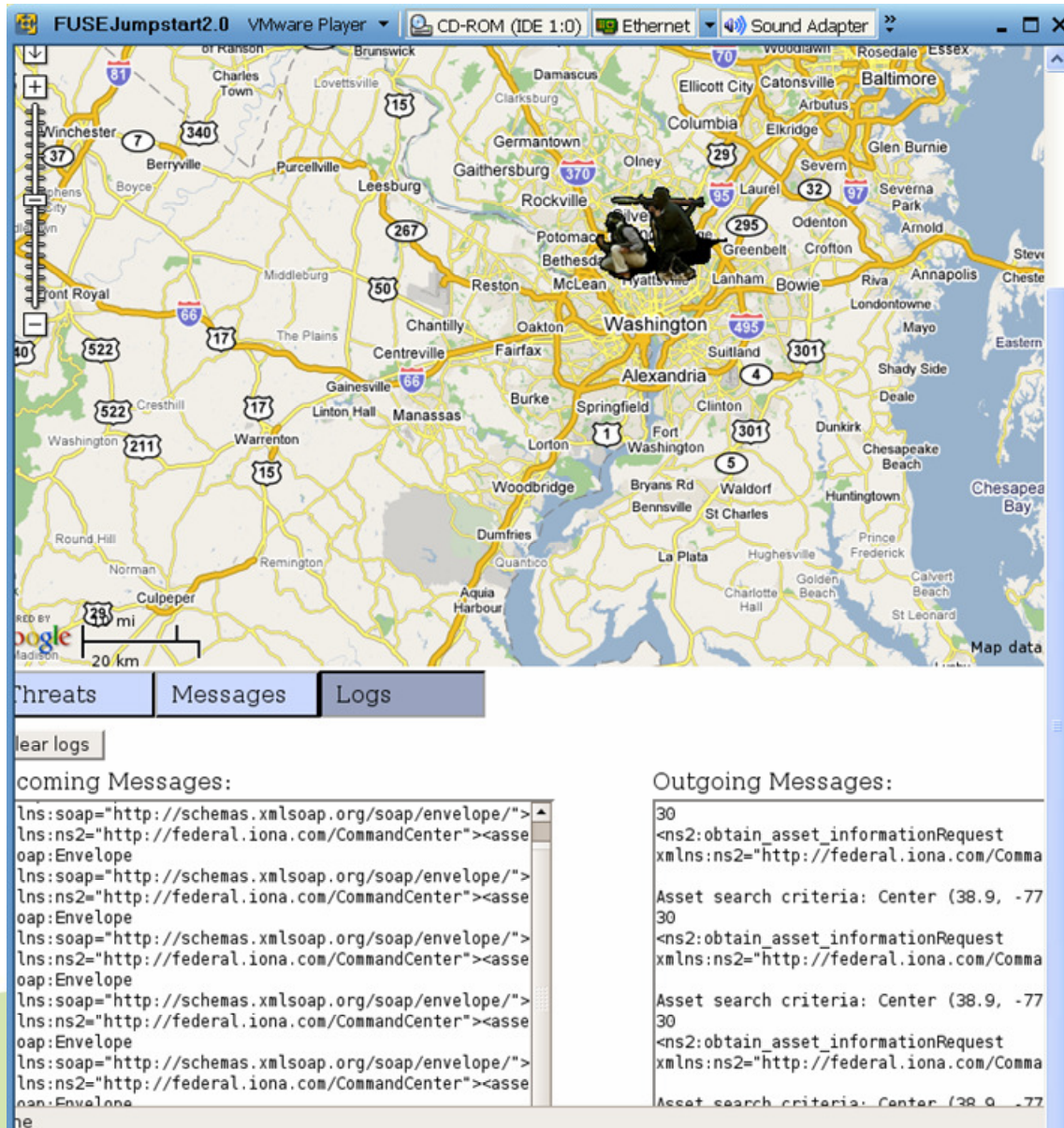
Send Alert Clear

The table is locked for

To direct input to this virtual machine, press Ctrl+G.

VMware Player

# JUMPSTART USE CASE - Demo (Cont.)



The screenshot displays a VMware Player window titled "FUSEJumpstart2.0". The main area shows a Google Map of the Washington, DC metropolitan area, with a 3D figure of a person on a horse positioned over the city. The map includes various roads, landmarks, and a scale bar. Below the map, there are three tabs: "Threats", "Messages", and "Logs". The "Messages" tab is selected, showing a list of incoming and outgoing messages. The incoming messages are SOAP envelopes, and the outgoing messages are also SOAP envelopes, containing asset search criteria and requests for asset information.

Threats Messages Logs

clear logs

incoming Messages:

```
lns:soap="http://schemas.xmlsoap.org/soap/envelope/">
lns:ns2="http://federal.iiona.com/CommandCenter"><asse
oap:Envelope
lns:soap="http://schemas.xmlsoap.org/soap/envelope/">
lns:ns2="http://federal.iiona.com/CommandCenter"><asse
oap:Envelope
lns:soap="http://schemas.xmlsoap.org/soap/envelope/">
lns:ns2="http://federal.iiona.com/CommandCenter"><asse
oap:Envelope
lns:soap="http://schemas.xmlsoap.org/soap/envelope/">
lns:ns2="http://federal.iiona.com/CommandCenter"><asse
oap:Envelope
lns:soap="http://schemas.xmlsoap.org/soap/envelope/">
lns:ns2="http://federal.iiona.com/CommandCenter"><asse
oap:Envelope
```

Outgoing Messages:

```
30
<ns2:obtain_asset_informationRequest
xmlns:ns2="http://federal.iiona.com/Comma
Asset search criteria: Center (38.9, -77
30
<ns2:obtain_asset_informationRequest
xmlns:ns2="http://federal.iiona.com/Comma
Asset search criteria: Center (38.9, -77
30
<ns2:obtain_asset_informationRequest
xmlns:ns2="http://federal.iiona.com/Comma
Asset search criteria: Center (38.9, -77
```

# What YOU can do with Jumpstart TODAY

- › Familiarize yourself with SOA concepts (services, interfaces,.....)
- › Create new services
- › Modify supplied services
- › Experiment with Deployment scenarios
- › Change messaging platforms





# Summary

IONA

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# IONA's Unique Approach to SOA

*IONA helps federal agencies deploy SOA around their unique needs*

- A full portfolio of SOA infrastructure components
- Solutions powered by distributed and standards-based technologies
- Offer multiple on-ramps to SOA deployment
- Open source, closed source and hybrid options help keep costs down
- IONA's **Jumpstart Program**.....



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# Benefits of IONA's Approach

- › Deploy SOA at your own pace, incrementally adopt
  - › Everything you need to get started with a low-risk, high value project or manage a large, complex heterogeneous IT environment
  - › Pay as you go, use only what you need
- › Re-use existing IT assets, we work within your IT environment
  - › Multi-platform and multi-protocol solution lets agencies leverage existing investments
  - › The “Switzerland” of integration software
- › Open source alternatives keep costs down
  - › Enterprise-class support for open source offerings
- › Future-proof SOA deployments with standards based technologies
- › Enterprise QoS for the most demanding projects coupled with more than 15 yrs of SOA expertise



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# For More Information

For IONA Jumpstart Program go to

<http://www.iona.com/Jumpstart>

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Open Source distributed SOA infrastructure download at  
<http://open.iona.com>

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