

BJA Regional Information Sharing Conference

Innovations in Justice: Implementation Strategies and Emerging Standards for SOA

Kael Goodman
San Diego, CA
November 30, 2006

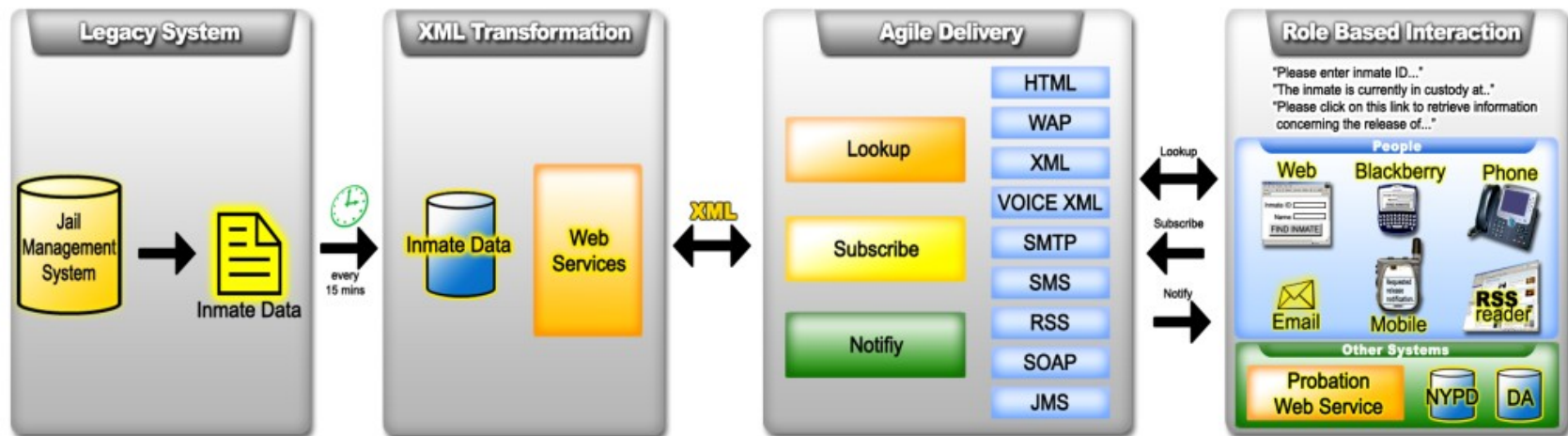
Goal of this presentation
is to show show some real
world examples of SOA and
provide a very quick overview
of where things are heading.....

First, an example of
a basic Web Service

Example of a Production System



DEPARTMENT OF CORRECTION INMATE LOOKUP & NOTIFICATION SYSTEM



Next, how does a service
become “SOA” ?

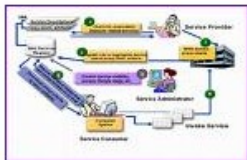
...Lots of Ways


soa - Google Image Search - Mozilla Firefox


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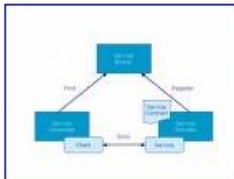
http://images.google.com/images?q=soa&ie=UTF-8&oe=UTF-8&client=firefox-a&rls=org.mozilla:en-US:official&sa=N&tab=wi


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882 x 562 pixels - 64k - gif
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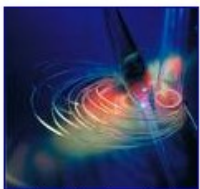

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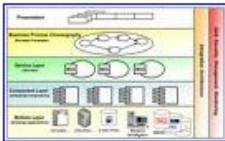

SOA Maturity Model: Service ...
500 x 317 pixels - 28k - gif
www.sonicsoftware.com



SOA.jpg
720 x 540 pixels - 21k - jpg
lists.w3.org

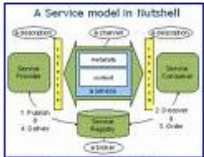

SOA Framework
392 x 259 pixels - 20k - gif
www.oasis-open.org



SOA en BREF
450 x 380 pixels - 96k - jpg
soaj2ee.blogspot.com



ULB - SOA : Service d Optique et ...
300 x 282 pixels - 87k - jpg
www.ulb.ac.be

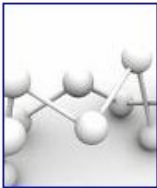

Figura 2: i layer SOA
575 x 350 pixels - 83k - jpg
www.mokabyte.it



EAI SOA
960 x 720 pixels - 84k - jpg
www.senergy.ch



ForteX SOA Method Slide Show
334 x 259 pixels - 13k - gif
www.fortex.fi

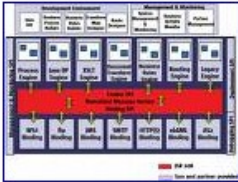

SOA: ??????? ...
530 x 328 pixels - 55k - gif
www.sw.nec.co.jp

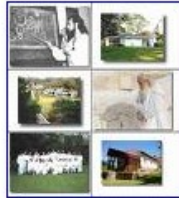

Toddlers Against Terrorism SOA ...
194 x 250 pixels - 9k - jpg
www.babybloc.org



SOA
200 x 240 pixels - 35k - jpg
www.bsanz.com


SOA - ??????
566 x 364 pixels - 44k - jpg
www.unisys.co.jp


DotNetGuru SOA PetShop 3.0
357 x 347 pixels - 42k - gif
www.dotnetguru.org


Figure 5: An Example Architecture
768 x 579 pixels - 62k - gif
java.sun.com


SOA
276 x 310 pixels - 20k - jpg
www.soa.edu


soa.jpg
640 x 480 pixels - 103k - jpg
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Roadmap to SOA

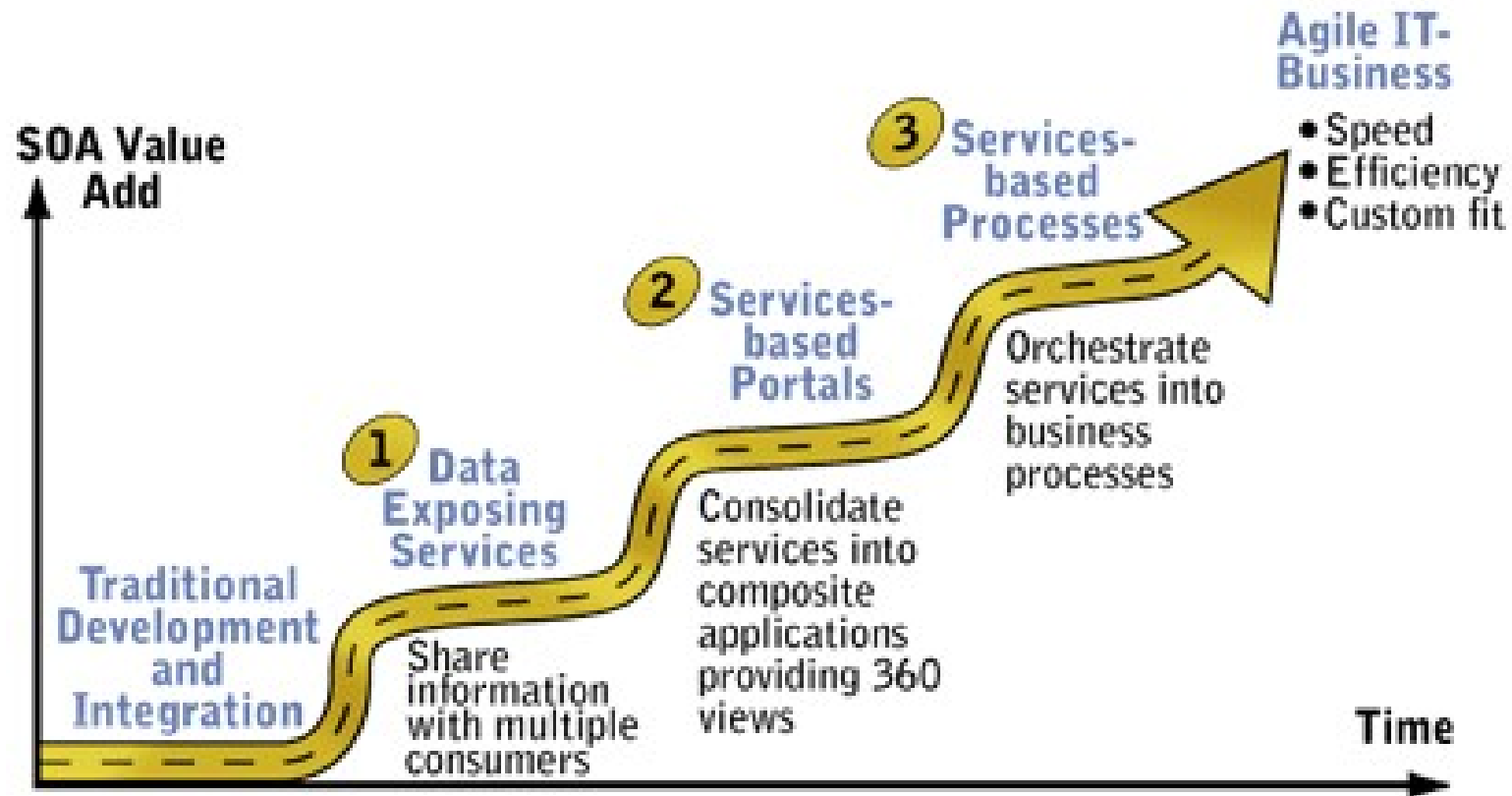
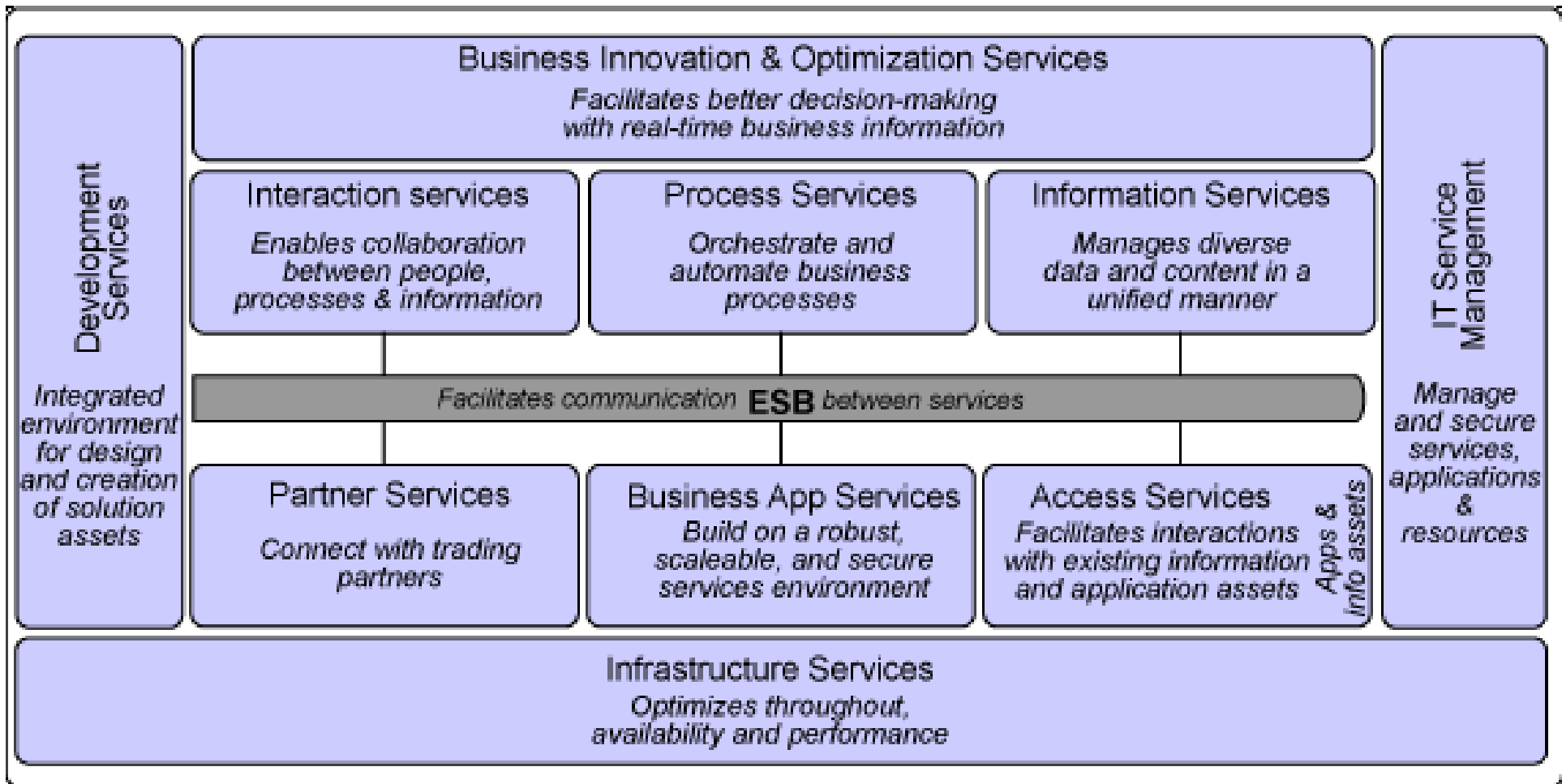


Image courtesy of BEA

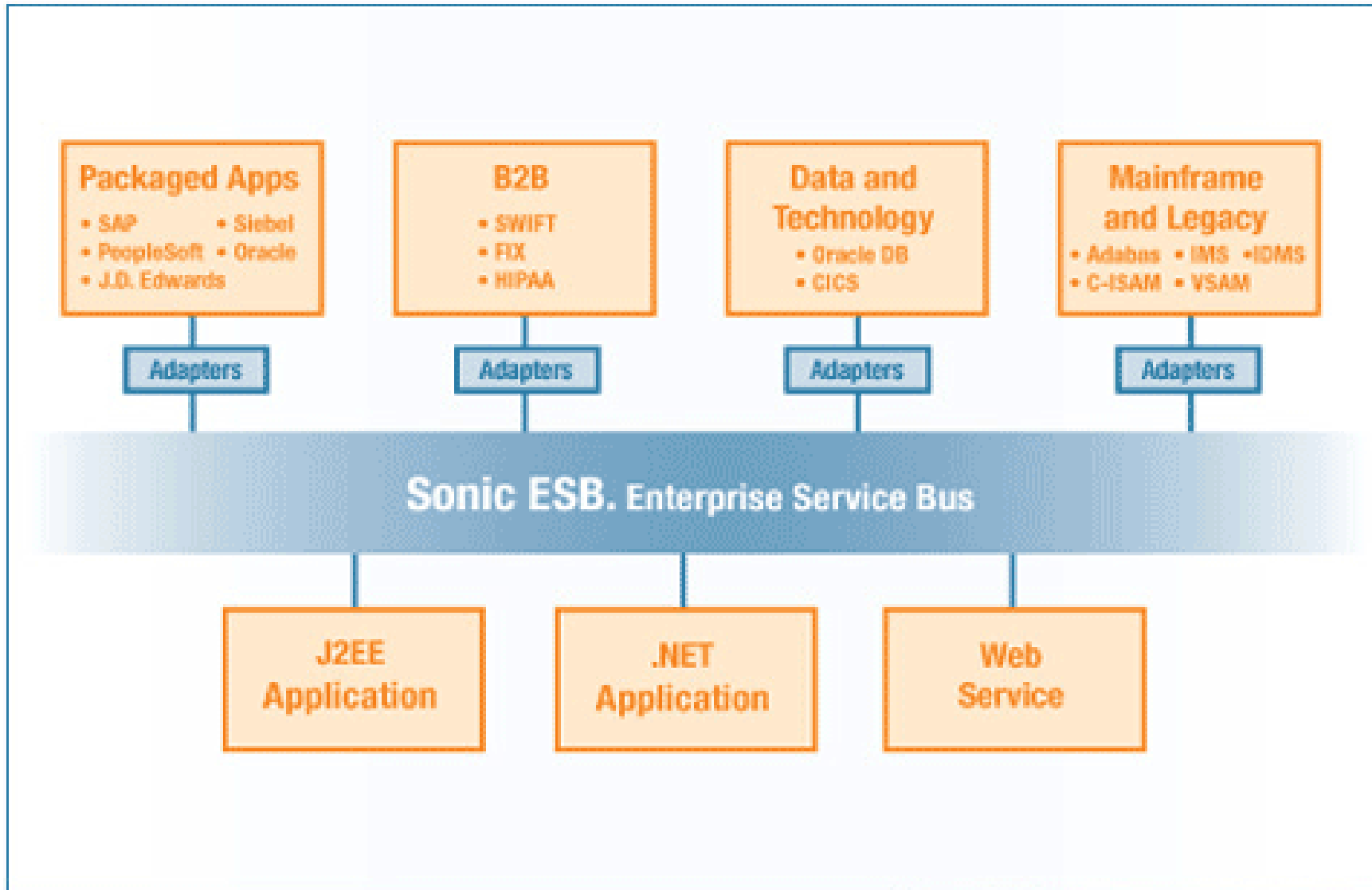
Example of a Vendor Architecture – IBM SOA Reference Architecture



What is an Enterprise Service Bus (ESB)?

Example of an ESB in SOA

Image courtesy of Iwaysoftware



Role of ESB in SOA – Consolidate lots of needed functionality

- ✓ Routing
- ✓ Message Transformation
- ✓ Message Enhancement
- ✓ Protocol Transformation
- ✓ Service Mapping
- ✓ Message Processing
- ✓ Process Choreography
- ✓ Service Orchestration
- ✓ Transaction Management
- ✓ Security

Emerging Trends

- ✓ Web 2.0
 - ✓ Participatory Web
 - ✓ Event-Driven

Example of Web 2.0 - Participatory

43 Things - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail New Tab






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<http://www.43things.com/things/view/421> Internet

Example of Web 2.0 – Event Driven


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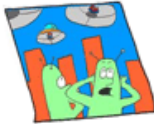
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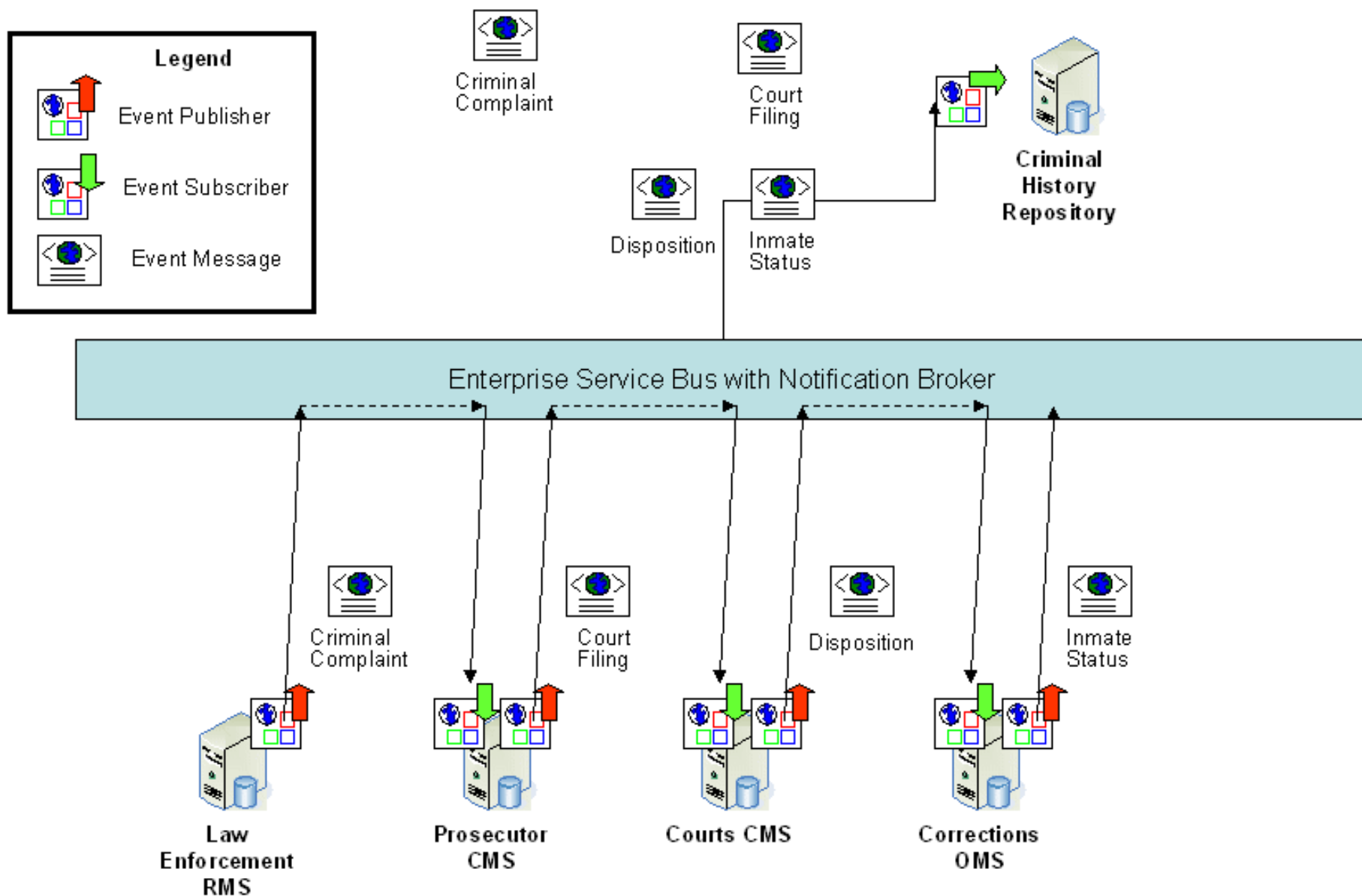
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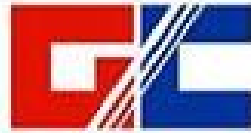
Internet

Event-Driven Justice Environment



Examples of Justice Subscriptions

Content-based Subscription	Rule-Based Subscription
Notify me of all arrests.	Notify me of arrests where the arrest is of a juvenile, and is for driving under the influence, and the arrest occurs between the hours of 10pm and 8am.



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