Privacy and Security Protections in Orange County

Alan Carlson, CEO
Snorri Ogata, CTO
## Information Sharing Context

<table>
<thead>
<tr>
<th>Users</th>
<th>Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Judge</strong></td>
<td><strong>Court Network</strong></td>
</tr>
<tr>
<td>Judge</td>
<td></td>
</tr>
<tr>
<td>Unlimited access. Read and Write.</td>
<td></td>
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<tr>
<td><strong>Court User</strong></td>
<td><strong>Agency DMZ</strong></td>
</tr>
<tr>
<td>Court User</td>
<td></td>
</tr>
<tr>
<td>Expansive access. Role based. Read and Write.</td>
<td></td>
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<tr>
<td><strong>Justice Partner</strong></td>
<td><strong>Public DMZ</strong></td>
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<tr>
<td>Justice Partner</td>
<td></td>
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<tr>
<td>Expansive access. Relationship based. Read only.</td>
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<tr>
<td><strong>“Party”</strong></td>
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<td>“Party”</td>
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<td><strong>Public</strong></td>
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<td>Public</td>
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<tr>
<td>Restricted <em>information</em> access per CA Rule of Court. Read only</td>
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</tbody>
</table>
Business Problem #1 – Equal Access

- Private Defense Attorney Access
  - Detailed case information provided to justice community
  - CA Rules of Court restricts information sharing with the general public on Criminal matters
  - Need to ensure equal access to private attorneys as currently enjoyed by justice partners

- Proposed solution
  - Implement GFIPM “fine grained” security policy
  - Leverage CA AOC statewide Oracle Contract
  - Restrict access to cases in which the attorney is a party to the case
“Before”

Superior Court of Orange County, GFIPM PDA Project, Identity Provider Diagram
“After”

Superior Court of Orange County, GFIPM PDA Project, Service Provider Diagram
Architectural Approach – The Moving Parts

- **Oracle** Database 11g
- **Oracle** Identity Management
  - **Oracle** Identity Federation
  - **Oracle** Access Manager
  - **Oracle** Identity Server
  - **Oracle** Internet Directory
  - **Oracle** Virtual Directory
  - **Oracle** HTTP Server
- **Oracle** Entitlement Server
- **Oracle** WebLogic Server
- **Oracle** Web Gate

- Why **Oracle**?
  - Statewide license for CA Judicial Branch
  - Selected security platform for CA Statewide case management system (2011+)

Global Advisory Committee
Business Problem #2 – Secure Data Exchanges

- Justice Partner Data Exchanges
  - Automated data exchanges between Court and District Attorney
  - Exchanges rely explicitly on network security
  - Need to ensure exchanged data files come directly from trusted systems
- Proposed solution
  - Leverage GFIPM infrastructure from Problem #1
  - Enhance existing web services to:
    - Perform authentication/authorization step
    - Create auditable authorization
    - Prepare for consolidation of environments
Heavy reliance on physical network security. Complex and costly.
"After"

Physical security yields to “web services” and a “Federated Circle of Trust”
Lessons Learned to Date

- Oracle marketing is ahead of actual products
  - Mixture of 11g and 10g products
  - Acquired products are still buggy
  - Product “suite” is more of a “loose collection”
- The Oracle “community” is still pretty small
  - Not many integrators
  - Little support available
  - Training is spotty and uneven
- The “next guy” will have a much easier time...