PE2E Timeline

4/4/2011
High Level Business and Technical Requirements Due

4/11/2011
High Level Physical Architecture Due

4/28/2011
Internal Scrum Team

5/6/2011
Foundational Architectures Due

Sprint Deliverables

7/1/2011

8/1/2011
Pilot Production Data Due 7/5/2011

9/1/2011

9/30/2011
Implementation to CRU

10/1/2011 - 9/30/2012
FY 2012

FY 13 - Rollout of functionality to broader audiences

10/1/2012 - 9/30/2015
FY 2013-15

FY 14 - Define & pursue decommissioning strategy

Examination tools

Applicant tools

Workflow

Structured text-content
Front-End Summary

• Integrated front-end design & implementation
  – Initial front-end implementations complete
  – Development continues on additional front-end deliverables
  – Deliverables are fully-functioning web-applications, with stubbed-out services

• Service-level architecture
  – Completed and integrated into project documentation

• Data models
  – Foundational logical model complete
  – Physical model for 1st sprint complete and deployed
Front-End Implementation

Claims:

1. A computer, comprised: a fixed casing accommodating a first computer component and having an opening; a movable casing covering said opening of said fixed casing, said movable casing having a tab protruding from said movable casing, said movable casing accommodating a second computer component on an inner surface of said movable casing; a pair of hinges rotatably coupling said fixed casing to said movable casing so as to allow the movable casing to cover and uncover said opening; and a latch comprising a slide mounted on said fixed casing, said slide having an offset corresponding to said tab, said slide moving laterally so as to engage said tab to said offset where said movable casing covers said opening and to disengage said tab from said offset where said movable casings covers said opening.

2. The computer of claim 1, said slide having an elongated hole, said fixed casing having a boss corresponding to said elongated hole, said boss being inserted into said elongated hole and guiding the sliding of said slide along said elongated hole.

3. The computer of claim 2, said slide further comprising a grip.

4. The computer of claim 3, further comprising a spring having a first end connected to said slide and a second end connected to said fixed casing, said spring biased said latch to engage said tab to said offset.

5. The computer of claim 4, said offset having a camming surface on its upper end so as to allow the downward movement of said movable casing to be changed to the lateral movement of said slide.

6. The computer of claim 5, said second component comprising a CD-ROM drive.

7. The computer of claim 2, further comprising a catch positioned at said fixed casing and a...
User Involvement

- Design / Development sprints every two weeks
- Weekly meetings with examiners
  - Both CRU and “regular” examiners
  - To design the functionality for the next sprint
  - To assess the functionality of the previous sprint
- A major (holistic) user evaluation every 6 weeks
  - Most recent was May 25th
  - Next is July 7th
- Usability advisory council regularly updated
- POPA union fully informed
- Reactions are uniformly positive
• Procured development kicked-off June 20; delayed 2 weeks
  – SDI NG protest delayed procurement; alternate procurement plan pursued
  – Financial adjustments due to emergent budgetary constraints
• High-level physical architecture
  – Completed for development environment
  – Ongoing for QA, Staging, & Release
• Environments
  – Development & QA environments built
  – Requirements being gathered for staging & production environments
• Database
  – Logical & physical model complete foundation and scope of 1st sprint
  – Expansion of database models for subsequent sprints continues
• **XML Schemas under development**
  – 7 key content types identified for high-granularity schemas
  – Lightweight schema for additional content types
• **Technology stack for scope of FY11 release vetted and finalized**
• **Internal development began June 6**
  – Continuous-build environment configured and working
  – XSLT (Extensible Stylesheet Language Transformations) under development for transformation of earlier XML standards (e.g., ST.36)
• **Sprints on schedule for FY11 release**
  – Deliverables will provide services to connect back-end to front-end, replacing stubbed-out services delivered in front-end
  – Will build initial data-intake routines from vendors and USPTO data sources
<table>
<thead>
<tr>
<th>Technology Need</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Red Hat Enterprise Linux 6.x</td>
</tr>
<tr>
<td>File system</td>
<td>ext4</td>
</tr>
<tr>
<td>Virtualization (type 1 hypervisor)</td>
<td>Red Hat Enterprise Linux 6.x: KVM</td>
</tr>
<tr>
<td>Server provisioning</td>
<td>RHN Satellite 5.x</td>
</tr>
<tr>
<td>Virtualization management</td>
<td>RHEV-M 2.x</td>
</tr>
<tr>
<td>Load balancer</td>
<td>IBM Edge Server 7.</td>
</tr>
<tr>
<td>Application server</td>
<td>JBoss SOA-P 5.1</td>
</tr>
<tr>
<td>Web server</td>
<td>JBoss EWS5.1</td>
</tr>
<tr>
<td>Java servlet/JSP container</td>
<td>JBoss EAP 5.1</td>
</tr>
<tr>
<td>Object-relational mapping &amp; persistence framework</td>
<td>JBoss EAP 5.1: Hibernate</td>
</tr>
<tr>
<td>Logging</td>
<td>JBoss EAP 5.1: JBoss 5.1 logging API</td>
</tr>
<tr>
<td>Rules engine</td>
<td>JBoss Enterprise BRMS (Drools 5.x)</td>
</tr>
<tr>
<td>Enterprise service bus (ESB)</td>
<td>JBoss ESB as part of JBoss SOA-P 5.1</td>
</tr>
<tr>
<td>Database</td>
<td>MySQL Cluster Carrier Grade Edition 7.1</td>
</tr>
<tr>
<td>Version control</td>
<td>Apache Subversion 1.6.x feeding ClearCase</td>
</tr>
<tr>
<td>Build management</td>
<td>Apache Maven 3.0.x feeding ClearCase</td>
</tr>
<tr>
<td>Continuous integration tool</td>
<td>Hudson 1.39x</td>
</tr>
<tr>
<td>Build artifact repository</td>
<td>Nexus 1.9.x feeding ClearCase</td>
</tr>
<tr>
<td>Development framework</td>
<td>JBoss SEAM, Java EE6</td>
</tr>
<tr>
<td>Development IDE</td>
<td>JBoss Developer Studio</td>
</tr>
<tr>
<td>Search engine</td>
<td>TBD; currently building business case</td>
</tr>
<tr>
<td>Workflow management</td>
<td>JBPMP; currently building business case</td>
</tr>
<tr>
<td>JavaScript toolkit</td>
<td>Dojo 1.6.x</td>
</tr>
<tr>
<td>XML Management</td>
<td>TBD</td>
</tr>
<tr>
<td>Physical Servers</td>
<td>Dell R910</td>
</tr>
<tr>
<td>Primary Deployment language</td>
<td>Java 1.6</td>
</tr>
</tbody>
</table>
• **Major requirement areas**
  – Examiner tools, additional functionality
  – Applicant tools
  – Workflow elements
  – Structured text-content

• **Major development areas**
  – Lightweight improvements to existing systems
  – PE2E improvements rolled out to pilot audiences
  – AIS integration solutions
  – Increasingly sophisticated text-content acquisition
PE2E Portfolio FY13 - FY15

• FY13: Rollouts to broader audiences
  – Process refinements to ensure operational scalability
  – Incremental deployment to patent corps

• FY14 – FY15: Define & pursue decommissioning strategy
  – Data migration
  – Define and satisfy feature completion criteria
Risks And Issues

• Preserving FY11 scope in light of procurement delay

• Acquisition of production-level, structured XML (ST.96) for FY11