

FFM Operations Readiness Review



September 4, 2013

Agenda

Area to review	Reviewed by
Overview of Functionality	
Release Detail	Monica
Interfaces	Justin
User/Partner Interactions	Justin
Architecture Overview (Physical, Software, Data Flow, Operations)	Keith
Performance	Keith
Production Planning	Scott
Testing	Mazen
Call Center / Helpdesk Readiness	Brandi

Architecture Overview

- *FFM*

FFM Build Out Approach

- Maintain PM/FM as-is (as much as possible) in current production environment
 - Reduce risk during cutover
 - Different release, patch cycles
- EE is a merger of existing LOA and PRIME infrastructure
 - Lite Account is replaced by MyAccount
- Shared resources across PM/FM/EE
 - MarkLogic
 - Alfresco
 - Gluster
- Shared resources across FEPS
 - Gluster
 - F5s

FFM Build Out Approach

- Configured Blue/Green EE paths to support patching
 - SOAP (business and data), Tomcat
- Merge and Cutover Phases
 - Prep PRIME for 95% completion.
 - Targeted for 9/15
 - Cutover to complete merge of current Prod and Prod' during 9/20-9/22
- Data Merge
 - MarkLogic
 - Alfresco
 - Oracle

FFE-PM Physical VMs – Production (Existing)

PM/FM Server	Zone	Qty	VCPU/VM	RAM/VM
Apache RP	Presentation	2	2	4
Apache - Tomcat	Application	2	2	8
Jboss SOA-P Business Services	Application	4	2	16
Jboss SOA-P Batch	Application	6	2	16
Gluster	Application	2	4	16
BRMS	Application	2	2	16
EHCACHE	Application	2	2	32
AV Calc	Application	2	2	6
Apache - Tomcat Alfresco	Data	4	2	16
Jboss SOA-P Data Services	Data	2	4	16
Jboss SOA-P Batch	Data	2	4	16
Oracle DB	Data	2	4	16
Gluster	Data	2	4	16
MarkLogic (E-Nodes)	Data	2	4	16
MarkLogic (D-Nodes)	Data	3	8	64

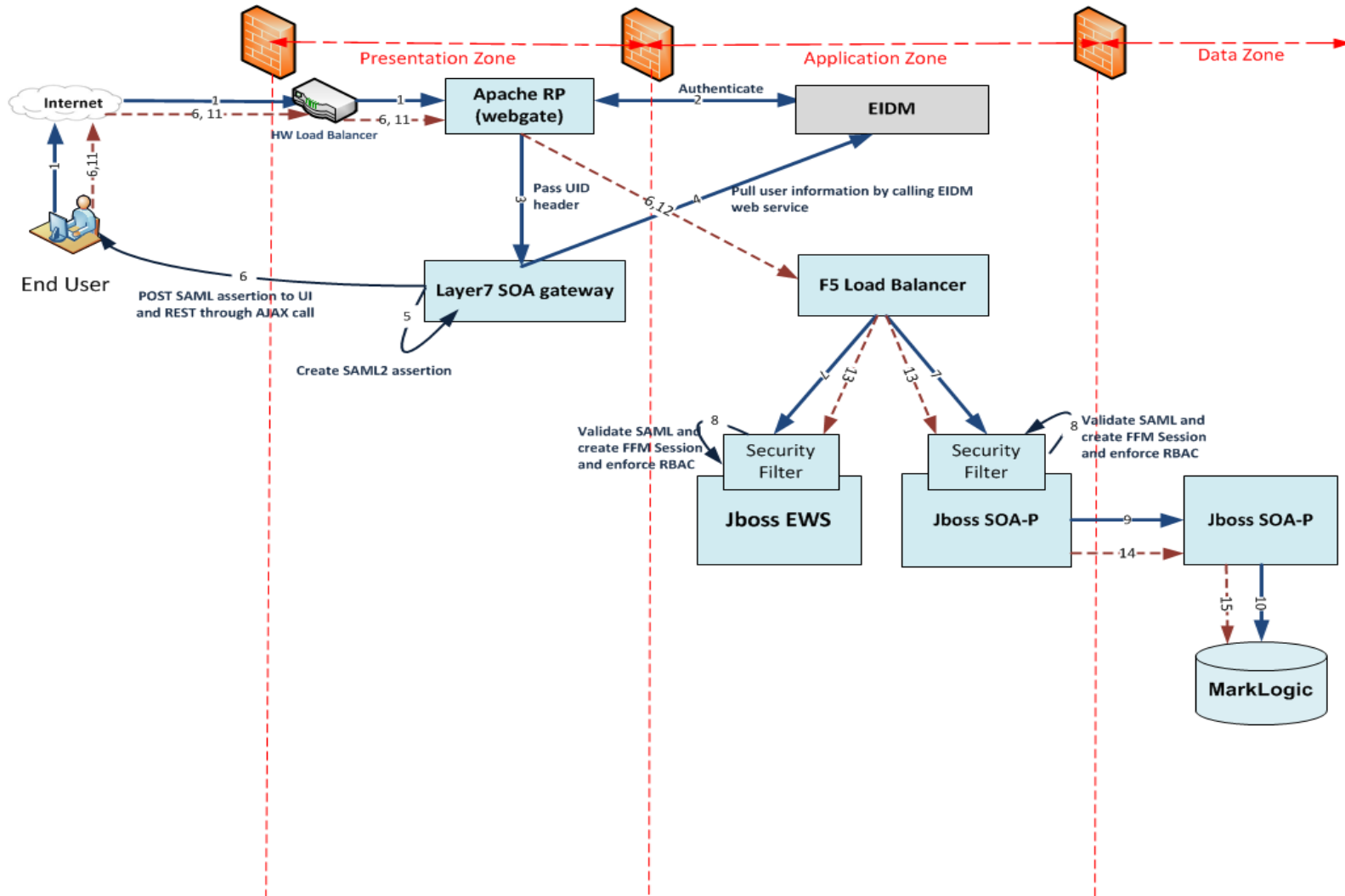
FFE-EE Physical VMs – Production

EE Server	Zone	Qty	VCPU/VM	RAM/VM
Apache RP	Presentation	4	2	4
Layer 7	Presentation	6	4	16
Terracotta	Presentation	2	2	16
Apache - Tomcat	Application	2	2	16
Layer 7	Application	4	4	16
Jboss SOA-P Business Services	Application	16	2	16
Jboss SOA-P Batch	Application	4	2	16
Gluster	Application	6	4	16
BRMS	Application	2	1	8
Terracotta	Application	6	2	16
Load Balancer/F5	Data	2		
Tomcat Alfresco	Data	6	2	16
Jboss SOA-P Data Services	Data	12	4	16
Jboss SOA-P Batch	Data	4	4	16
Oracle DB	Data	2	4	16
Gluster	Data	8	4	16
MarkLogic (D-Nodes)	Data	7	8	64

Multiple Access Methods

- Consumer Access
- CCR web services
- CCR (NGD) web access (current)
- CCR (NGD) web access (contingency)
- CCR (SHOP) web access

Consumer Access



CCR Web Services

1. CCR user login to NGD or PIMS (SHOP)
2. Consumer or SHOP call CCR
3. CCR does a search within the NGD or SHOP
4. NGD or SHOP call the CCR web services over internet
5. Hits port 6443 on HW LB which sends the traffic to the L7 gateway in presentation zone
6. L7 validates the cert (SSL mutual auth) and ws-username token
7. Routes the call internally and sends the response back

CCR (NGD) Web Access (current)

1. CCR user login to NGD
2. CCR clicks on access FFM link
3. NGD federates with EIDM over internet
4. EIDM validates SAML from NGD and establishes EIDM Session
5. CCR user redirected back to NGD
6. NGD access FFM URL with applicationID and applicant ID
7. L7 obtains CCR information from EIDM session and establishes FFM application session
8. L7 redirects the user to FFM CCR landing page

CCR (NGD) Web Access (contingency)

1. CCR user login to NGD
2. CCR clicks on access FFM link
3. NGD federates with FFM over CMS Net
4. FFM validates SAML, obtains all CCR information and establishes FFM application session
5. L7 redirects the user to FFM CCR landing page

FFM Infrastructure Readiness

- IMPL1A Region
 - Support End to End and Issuers testing.
 - Available 9/11 for internal validation and 9/15 for E2E testing
- IMPL1B Region
 - Supporting internal performance testing
- PROD Region
 - Target for 9/15 to support ACA performance testing

Infrastructure Discussion Items

- SLA Confirmation/Downtime Windows
 - Standard CMS Window is Sunday (morning) midnight to 5:00am
 - Should additional windows be defined during break-in period? Expectations set that patches will occur.
- Disaster Recovery
- Desire for more test environment
 - Need a sustainable deployment schedule

FFE PM Performance Testing Approach

- Performance/Capacity Planning
 - MarkLogic capacity planning
 - Layer7
 - Alfresco
 - Gluster
- Functional Performance Testing, focused on these key areas:
 - Individual Application
 - Plan Compare/Rating Engine
 - Enrollment

Questions?

