

IBM Sterling Selling & Fulfillment Solution Upgrade Strategy and Execution – 8.5 to 9.2

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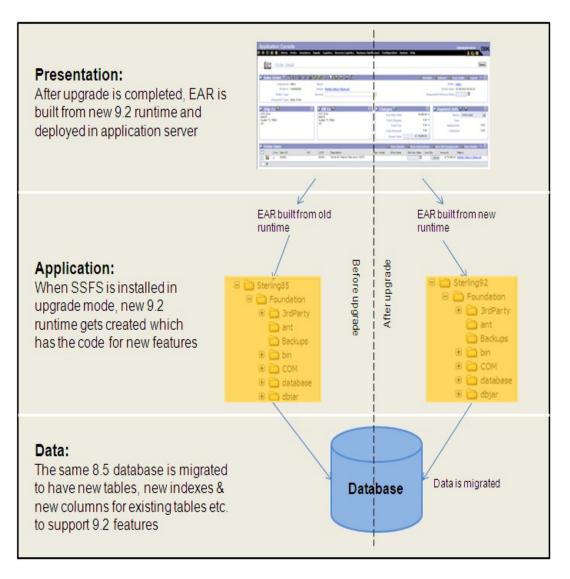
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- Overview of Sterling 9.2 Upgrade
- Upgrade phases
- High level upgrade steps
- Upgrade Strategy
- Performance Considerations
- Case Study

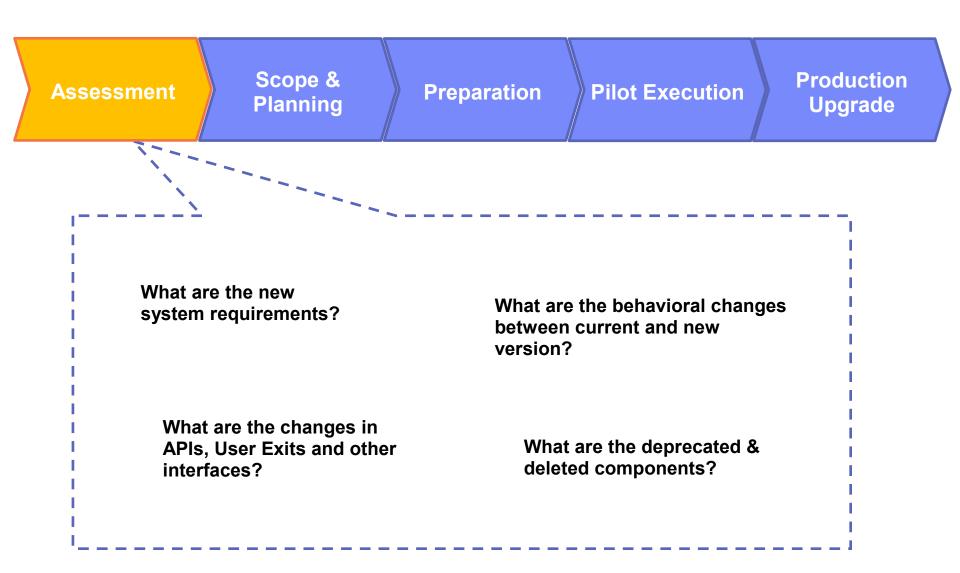
Overview of SSFS 9.2 Upgrade



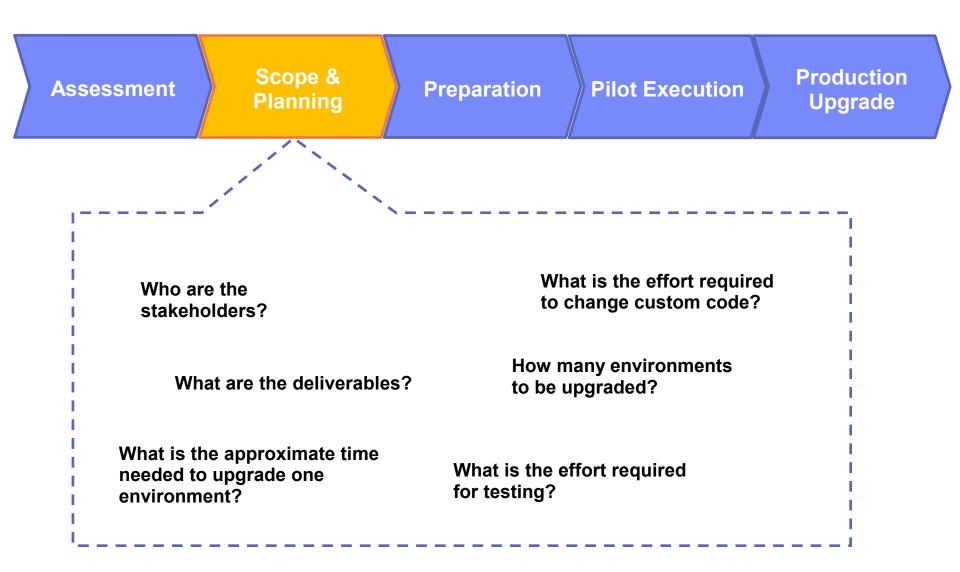


- File upgrade + Data migration
- Two types of Upgrade
 - Single hop -> 8.5 to 9.0 (when customer wants to upgrade from 8.5 to 9.0)
 - Multi hop -> 8.5 to 9.0 to 9.1 to 9.2 (when customer wants to upgrade from 8.5 to 9.2)
- File upgrade
 - New foundation runtime gets created
 - Extensions from old runtime gets copied to new runtime
- Data migration
 - Schema migration
 - Factory setup migration
 - Custom data migration

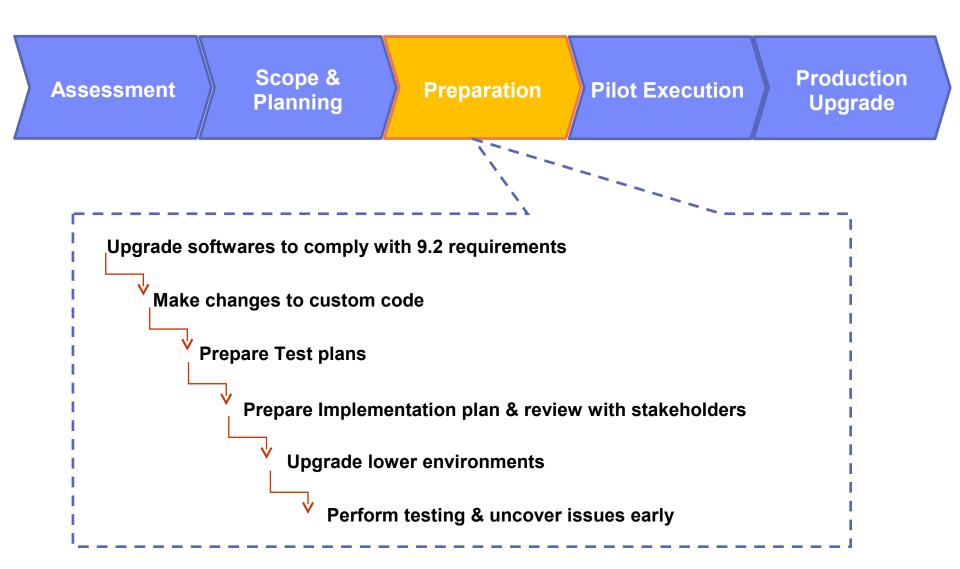




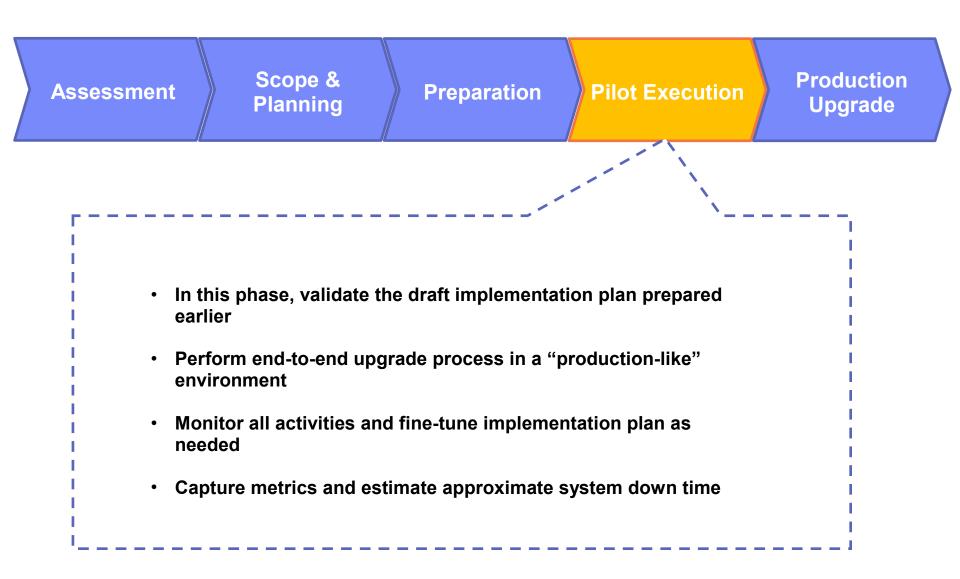




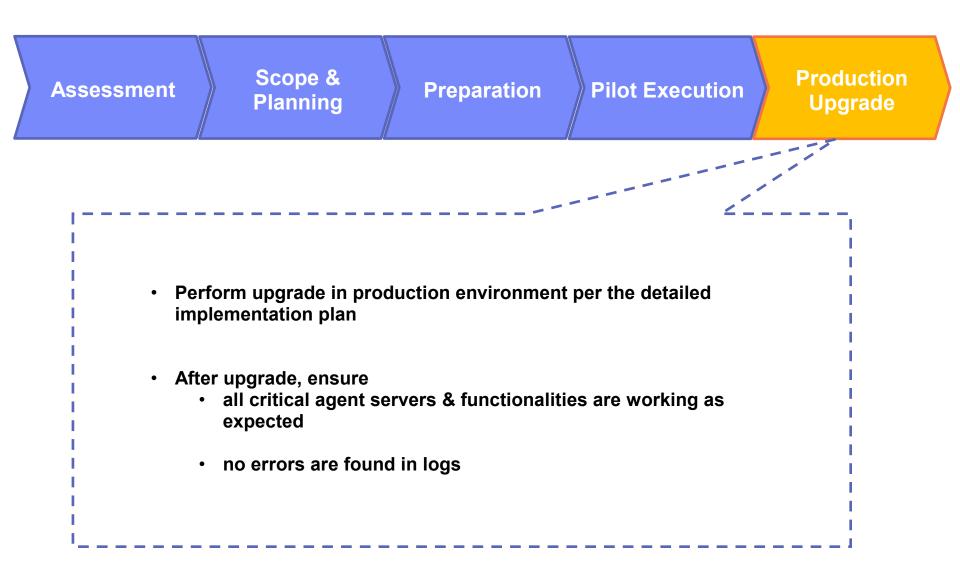












High level Upgrade steps



Verify

- Availability of disk space to install new 9.2 runtime
- Supported versions of database, JDK etc.
- Database parameters as mentioned in upgrade guide
- ...

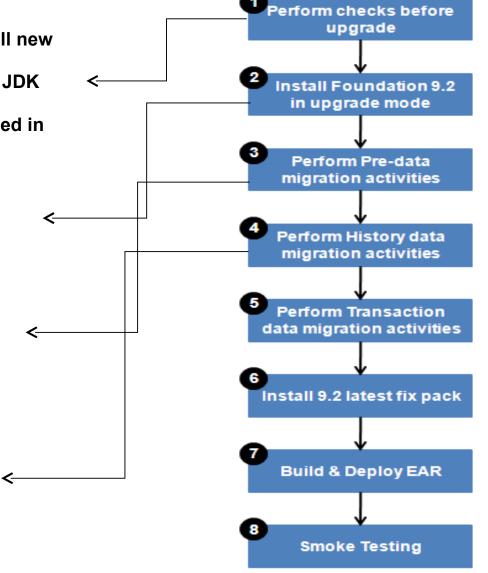
Install SSFS 9.2 in Upgrade mode

Execute ANT targets:

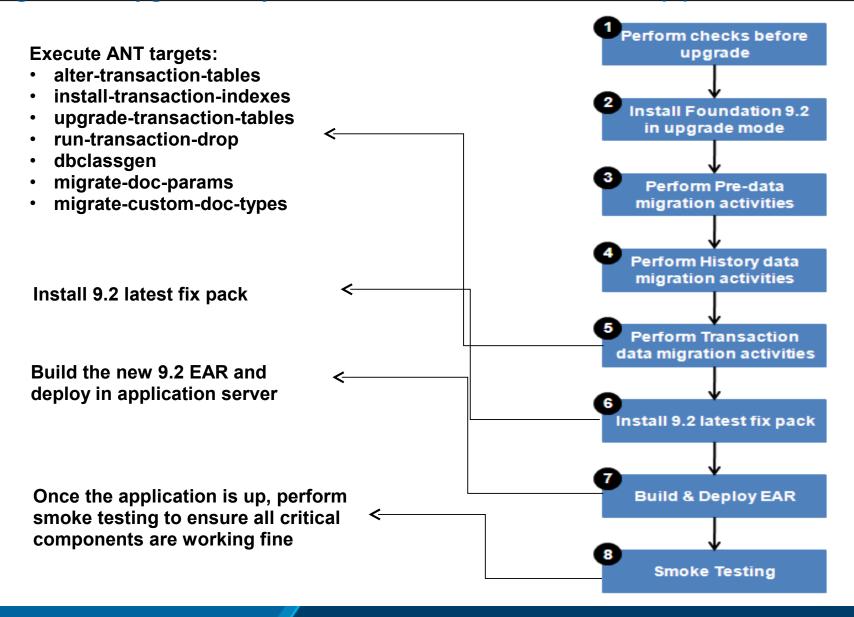
- copyextensions
- installPCAs
- initupgrade
- migration-validation

Execute ANT targets:

- alter-history-tables
- install-history-indexes
- upgrade-history-tables
- run-history-drop









Key Considerations in defining the Upgrade Strategy

- Dependency on the Supported Stack
- Fix Pack Reconciliation
- Client Specific Pre-Releases
- JSP Reconciliation
- Regression Test Cases
- Change in Build script
- Number of Non-Production Environments
- Dependency on 3rd Party Software's
- Application Down Time

Application Down Time



Key Considerations in deriving the Application Down Time

- Number of Virtual Environments
- Number of OMS Instances
- Database Storage Size
- Deployment Architecture
- Production Cut-Off Plan
- Roll Back Strategy

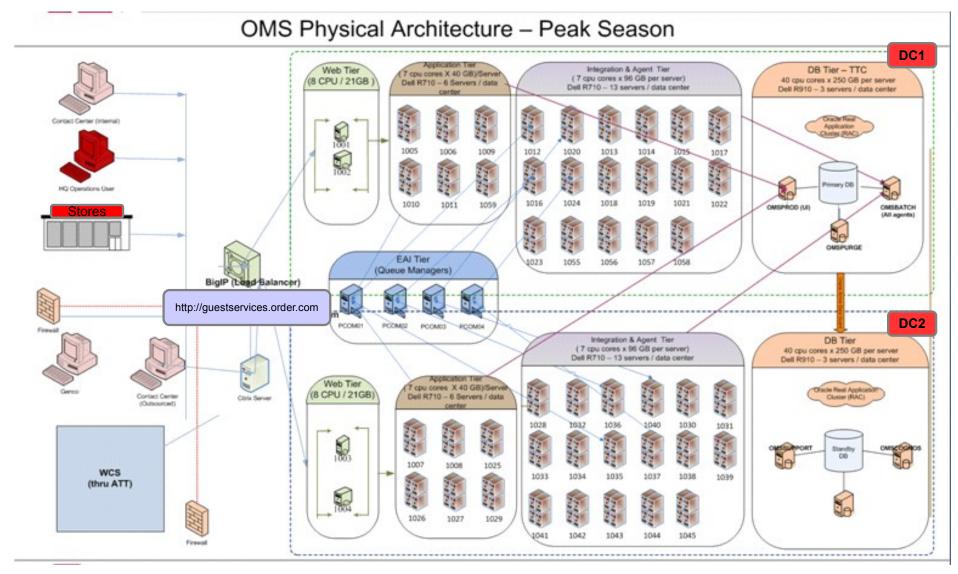
Performance Considerations



Key Performance Considerations

- Performance Baseline existing OMS application
- Performance Baseline upgraded OMS application
- Feature enhancements in Transaction
- Change in OMS Platform
- Archiving Optimization
- Impact of Caching







Architecture Details

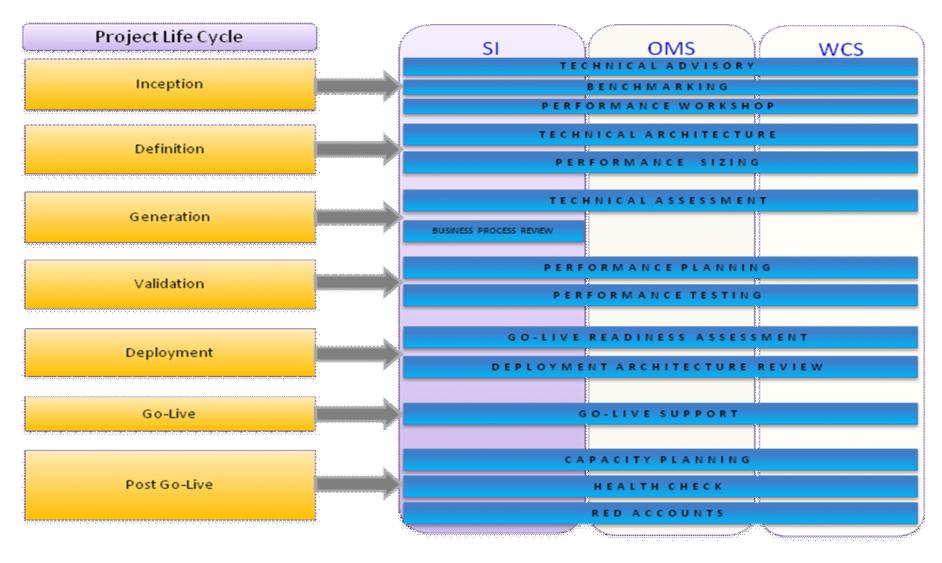
- 44 Virtual Environments
- Application Server: Websphere Application Server
 - 4 Clusters / Total 32 WAS instances
- Agent + Integration Servers
 - 180 JVM instances
- Database: Oracle 11g R2
 - Oracle Data Guard Active/Passive
 - 3 Node RAC
- Integration: IBM MQ v7
 - 4 Active MQ Managers

Upgrade Metrics

- Run1
 - Total Upgrade Time: 21:05:27
 - Total System Down Time: 16:26:10
- Run2
 - Total Upgrade Time: 17:05:27
 - Total System Down Time: 16:26:10
- Final Run
 - Total Upgrade Time: 08:35:15
 - Total System Down Time: 07:30:10

PCS Offerings





Contact: Beverley Styba/Toronto/IBM \ Anand Rajan/India/IBM

Questions?

