

ASUG

SAP

Application Lifecycle Management
Virtual Summit—North America

Migrating SAP & Solution Manager to a Hyperscaler

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Key Outcomes/Objectives

Learn About:

1. Developing a migration playbook for your SAP Solution Manager to expedite your migration
2. Helpful planning suggestions from SME's who have lived through a migration and can give you real world examples and lessons learned
3. Areas to watch out for in the planning and migration process to ensure success
4. How to prepare if you are planning an SAP S/4HANA migration in parallel

Agenda

- Developing a migration playbook for your SAP Solution Manager
- Helpful planning suggestions from SME's who have lived through a migration
- Areas to watch out for in the planning and migration process
- How attendees found success and what resources they utilized to attain it
- SAP Tools to help if you are planning a transition to SAP S/4HANA
- Open discussion

Matthew Harmon

15+ years of IT experience with varying roles and responsibilities including SAP Project and Program Management.

Co-chair ASUG Solution Manager Influence Council

10 Years-experience with SAP Solution Manager

7.2 Knowledge Areas

- ChaRM
- Solution Documentation
- Technical Monitoring
- Focused Insight
- Test Management
- Business Process Monitoring
- Incident Management
- Focused Build



Craig Brown

Co-chair ASUG Solution Manager Influence Council & Think Tank

15+ years of IT experience to include Chief Consultant and S/4HANA Migration Architect

12 Years-experience with SAP Solution Manager & ALM Operations

7.2 Knowledge Areas & ALM Value Streams

- Focused Build
- Solution Documentation
- Test Management & Test Automation
- ChaRM
- Migration Assessment and Planning
- Third Party Tool Integration
- Agile Program and Project Operations
- Standard and Custom Dashboards



Migrating SAP & Solution Manager to a Hyperscaler











Engagement

- Be an active participant in the planning
- Each customer is different, there is no 'one size fits all'
- There are strategies for success and planning is critical
- Understand your environment, business requirements and utilization

Solution Manager Utilization Organizer

Solution Manager Usage (Example)

Key	Low Implementation	Not Heavily Used, but configured
	Med Implementation	Used by two of four regions
	High Implementation	Used by All Regions, highly configured

Scenario	Details of Implementation	Adoption
Process Management	# process diagrams, # transactions/programs documented, used for Solution Documentation	High 
Test Suite	Regionally for test management, primarily manual test cases	High 
Business Process Operations	# of Business Process monitors set up across four landscapes (SIDs), EEM scripts running	High 
Change Control Management	# of SAP landscapes are managed by ChaRM. (Types of Change: Normal, Urgent, Standard, Admin and General)	Very High 
Custom Code Management	Configured to most major landscapes, not heavily utilized	Low 
Application Operations	Baseline technical monitoring is set up for all landscapes connected to Solution Manager	High 
IT Service Management	Interface to 3 rd party external Service Desk, ServiceNow to incidents passed between systems (Start in SNOW)	High 
Landscape Management	Leveraged by Global Basis team to manage # of SAP SIDs	High 
Data Volume Management	Configured to most major landscapes, not heavily utilized	Low 
Interfaces	ServiceNow for Incident, SharePoint, MF ALM for Testing, TREX	High 

Solution Manager Migration Approach

ChaRM General Approach

- SAP Solution Manager should go last – but takes careful planning for those other systems being migrated
- If you have cycles that contain multiple SAP systems, before migration they need to be pulled out of all open cycles and put into their own dedicated cycle:
 - If something goes wrong, you do not want to stop daily operations which can happen – cycles are designed to protect themselves and will lock
 - For example if user/saptrans is not reachable, the entire cycle stops working
- Be sure to check all cycles:
 - If continual cycles are open, this can take some time
 - Do not underestimate the amount of open documents
 - Leverage report: https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_esh_ui#
- Have this done even **before your first sandbox system moves**

Establish a Playbook

Phase 1 – Project DEV Migration

System being migrated

System migrated

Week of Mon D
Cycle phase: [Phase]

Existing STMS Route



Cycle Name: To be Named
Month D – Month D SCOPE
Month D – Month D BUILD
Month D – Month D TEST
Month D-D GO LIVE

Before	During Migration (downtime)	After Migration (during downtime)	After Migration (system released to users)
<ul style="list-style-type: none"> Send comms to users to complete all documents and what new cycle to use Remove from all cycles (Except Q2) Open status switches for all systems Communicate new HEC specific cycle to be used for all other changes Set LMDB as inactive Validate TMS Domain Controller is Development Run <a href="https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_esh_ui#">https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_esh_ui# Extract iBase Numbers before any migrations start for reference 	<ul style="list-style-type: none"> DEV will not be available. Need to assess where the team is in the release cycle and give direction. For example, Sandbox or project consolidation, etc... <i>Consider changes through the maintenance landscape would need to be retrofitted. If project work is decided to and happening in maintenance path, would need to wait for Dev system to be back to be able to auto-retrofit. For maintenance changes while dev systems is down, will need to retrofit manually (Depends on timing)</i> 	<ul style="list-style-type: none"> Execute post migration Basis tasks <ul style="list-style-type: none"> Set LMDB Active RFC Connections Managed system configuration Review transport route Validate TMS Domain Controller is Project Dev Use RZ70 to push data Check SLD information Check new IP and hostname of HEC system Check LMDB information, make sure LMDB has correct information Landscape should be redefined to identify if any issues exist in the cycle 	<ul style="list-style-type: none"> ChARM team needs to validate cycles are useful Follow previously agreed retrofit plan

Phase 2 – Project Consolidation Migration

System being migrated

System migrated

Week of Mon D

Cycle phase: [Phase]

Existing STMS Route



Cycle Name: To be Named
 Month D – Month D SCOPE
 Month D – Month D BUILD
 Month D – Month D TEST
 Month D-D GO LIVE

Before	During Migration (downtime)	After Migration (during downtime)	After Migration (system released to users)
<ul style="list-style-type: none"> Confirm with users what to do at this phase of migration Set LMDB as inactive Run <a href="https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_e_sh_ui#">https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_e_sh_ui# Extract iBase Numbers before any migrations start for reference 	<ul style="list-style-type: none"> DEV will be available. Need to assess where the team is in the release cycle and give direction Ex (What to do/not do with documents (i.e. BPP Approval, Confirm Test Success, etc.) <i>Consider changes through the upper landscape would need to be retrofitted. If project work is decided to and happening in maintenance path, would need to advise on auto-retrofit</i> <i>For maintenance changes, will need to advise on outstanding retrofits (Depends on timing)</i> 	<ul style="list-style-type: none"> Execute post migration Basis tasks <ul style="list-style-type: none"> Set LMDB Active RFC Connections Managed system configuration Review transport route Use RZ70 to push data Check SLD information Check new IP and hostname of HEC system Check LMDB information, make sure LMDB has correct information Landscape should be redefined to identify if any issues exist in the cycle 	<ul style="list-style-type: none"> ChaRM team needs to validate cycles are useful Follow previously agreed retrofit plan

Phase 3 – Production Migration

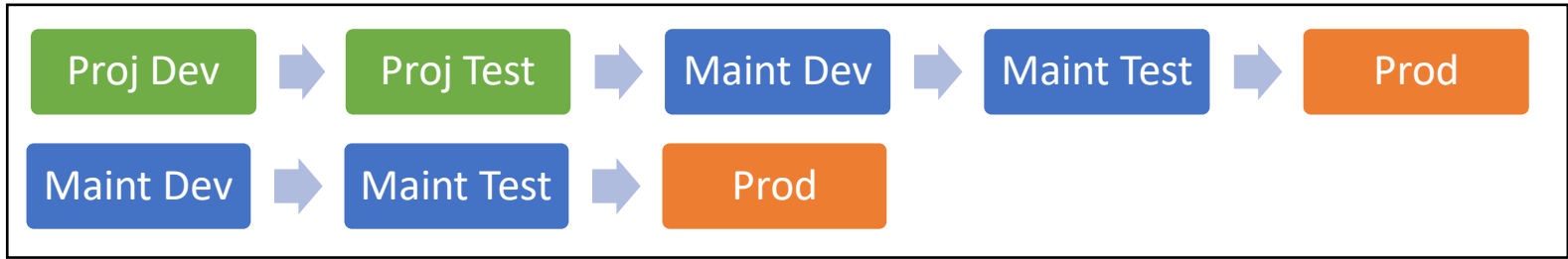
System being migrated

System migrated

Week of Mon D

Cycle phase: [Phase]

Existing STMS Route



Cycle Name: To be Named
 Month D – Month D SCOPE
 Month D – Month D BUILD
 Month D – Month D TEST
 Month D-D GO LIVE

Before	During Migration (downtime)	After Migration (during downtime)	After Migration (system released to users)
<ul style="list-style-type: none"> • Confirm with users what to do at this phase of migration • Set LMDB as inactive • Validate TMS Domain Controller is NOT Production • Run <a href="https://<server>:port/sap/bc/webdynpro/sap/ai_cr_m_cm_com_wd_esh_ui#">https://<server>:port/sap/bc/webdynpro/sap/ai_cr_m_cm_com_wd_esh_ui# • Extract iBase Numbers before any migrations start for reference 	<ul style="list-style-type: none"> • DEV will be available. Need to assess where the team is in the release cycle and give direction • Ex (What to do/not do with documents (i.e. Confirm Test Success.)) • <i>Consider changes through the upper landscape would need to be retrofitted. If project work is decided to and happening in maintenance path, would need to advise on auto-retrofit</i> • <i>For maintenance changes, will need to advise on outstanding retrofits (Depends on timing)</i> 	<ul style="list-style-type: none"> • Execute post migration Basis tasks <ul style="list-style-type: none"> • Set LMDB Active • RFC Connections • Managed system configuration • Review transport route • Use RZ70 to push data • Check SLD information • Check new IP and hostname of HEC system • Check LMDB information, make sure LMDB has correct information • Validate TMS Domain Controller is Project Dev • Landscape should be redefined to identify if any issues exist in the cycle 	<ul style="list-style-type: none"> • ChaRM team needs to validate cycles are useful • Follow previously agreed retrofit plan

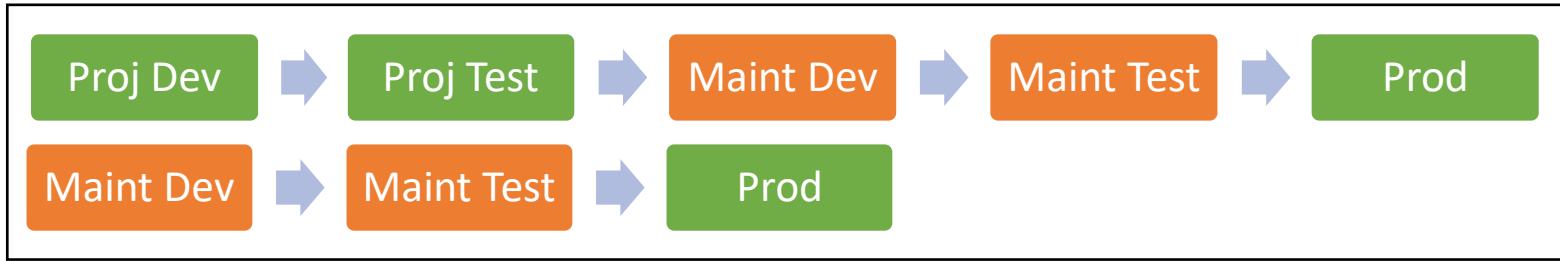
Phase 4 – Remaining System Migration

System being migrated

System migrated

Week of Mon D
Cycle phase: [Phase]

Existing STMS Route



Cycle Name: To be Named
Month D – Month D SCOPE
Month D – Month D BUILD
Month D – Month D TEST
Month D-D GO LIVE

Before	During Migration (downtime)	After Migration (during downtime)	After Migration (system released to users)
<ul style="list-style-type: none"> Confirm with users what to do at this phase of migration Set LMDB as inactive Validate TMS Domain Controller is NOT Production Run <a href="https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_esh_ui#">https://<server>:port/sap/bc/webdynpro/sap/ai_crm_cm_com_wd_esh_ui# Extract iBase Numbers before any migrations start for reference 	<ul style="list-style-type: none"> DEV will be available. Need to assess where the team is in the release cycle and give direction Ex (Manual release steps to move transports) Need to assess how to move urgent changes 	<ul style="list-style-type: none"> Execute post migration Basis tasks <ul style="list-style-type: none"> Set LMDB Active RFC Connections Managed system configuration Review transport route Use RZ70 to push data Check SLD information Check new IP and hostname of HEC system Check LMDB information, make sure LMDB has correct information Validate TMS Domain Controller is Project Dev Landscape should be redefined to identify if any issues exist in the cycle Update documents to reflect the new IBASE / Configuration item of MGP 	<ul style="list-style-type: none"> ChaRM team needs to validate cycles are useful Follow previously agreed retrofit plan Configuration item in change document needs to be updated <ul style="list-style-type: none"> AI_MODIFY_IBASE_IN_D OC If DB migrated, need to redo managed system setup – DB connection – Deactivate in on prem environment

Migration Lessons Learned

Considerations

- Make sure you understand your migration strategy i.e, migration vs. system copy
- For example: Once migrated, a copy of Project Dev will be applied with Maintenance Dev and a copy of production to Maintenance Test
- SAP has a documented OSS note - **2259615 - CharM: Correct Procedure of System refresh or copy regarding DEV system in Charm Project:**
 - If you would like to refresh your development systems by copying from another system, please be extremely careful.
CAUTION!!!: SAP does NOT recommend the copy of development systems, because many system specific attributes will be overwritten during the copy and that will lead to inconsistencies after copy.
It is possible that your system and CharM/QGM project cannot be used after the copy, so please consider this before you really perform the system copy.
 - If you are using Solution Manager 7.2 (which we are):
 - In Solution Manager 7.2, you need to complete the cycles(SMIM or SMAI). But this is only possible if all the request for changes and change documents are in a Final status. Also, please notice that it is not possible to complete a cycle if there is transport request in the Production System import buffer.
 - This is not a possibility with all the hundreds of documents and hundreds of transports created to support our business partners
 - This means that there is no option like in Solman 7.1 to get the open changes to any next cycle as there cannot be open document if you want to complete the cycle. The newly created cycle in Step3 will have no relationship to the closed cycle
- Make sure you configure a back up domain controller – once your domain controller is being migrated, there is no chance to revert to the back up
- Access to client 000 – depending on your hosting service you may or may not have access to client 000
- Ensure SLA's are understood – many SLA's can have a three-to-10-day request fulfillment time (could vary by contract)
- **Critical!** - Know your provider support team – build a relationship

SAP S/4HANA Migration in Parallel

- Process Mining, Assessment, and Refinement activities
- Data Migration Preparation and Post Migration Validation
- SAP S/4HANA Readiness Check & Quick Sizer
- SAP Solution Manager and Focused Build project preparation and planning

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Questions?

For questions after this session, contact us at
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to share your thoughts on today's experience.

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