Getting Started with Scope and Effort Analyzer (SEA)

ALM Solution Management, AGS, SAP AG
Introduction

Upgrade Planning with Scope and Effort Analyzer (SEA)
SAP Solution Manager - Scope and Effort Analyzer

Approach

1. **SAP Solution Manager**
   - User enters system for planned EHP/SP deployment
   - User enters planned target EHP/SP release
   - Information send to SAP

2. **SAP OSS**
   - Calculation of SAP objects (BOM) for target release
   - SAP sends BOM back to SAP Solution Manager

3. **SAP Solution Manager**
   - Usage statistics
   - Taylored impact analysis for custom code / modifications
   - Effort calculation
   - Business Blueprint generation
   - Test Scope and Effort Optimization
   - Recommendations

4. **Customer Project Team**
   - Result review through Fact Sheet
   - Assessment of analysis details
   - Parameter variation for result optimization
Benefits of Scope and Effort Analyzer

- Early upgrade change impact analysis without physical EHP/SP installation
- Reliable project effort estimation for required adjustment and test activities
- Test Scope Optimization with significant reduced test scope and test effort
Getting Started with Scope and Effort Analyzer (SEA)
SEA setup in 3 easy steps

1. Setup SAP Solution Manager 7.1 SP11 system
2. Ensure pre-requisites for managed systems
3. Setup *Custom Code Management* in SAP Solution Manager
1. Setup SAP Solution Manager System

- Install SP11 on SAP Solution Manager 7.1
- Start Work Center **SAP Solution Manager Configuration** (or run transaction SOLMAN_SETUUP for…)
  - System Preparation
  - Basic Configuration
  - Managed Systems Configuration (for all systems to be analyzed)

Refer to Chapter – 4.1 in **SEA How-To Guide**.
Scope and Effort Analyzer: System roles in analysis landscape

Managed Systems

Role: System to read custom developments and modifications

DEV

ST-PI

Read RFC

Role: System used for TBOM calculation and test scope optimization activities

QAS

ST-PI

Read and trusted RFC

Role: System to read usage statistics (workload statistics and UPL)

PRD

ST-PI

Read RFC

Solution Manager

ST 710 SP11

Support Backend

Role: System to calculate target software stack and return ABAP object piece list

Mopz interface

Firewall

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Pre-requisites for different system roles in SEA

**Custom Code Developments and Modifications**
- **Recommended System:** DEV
- **Pre-requisites**
  - ST-PI 09 (or higher)
  - RFC connection to SolMan

**Usage Statistics**
- **Recommended System:** PRD
- **Pre-requisites**
  - ST-PI 09 (or higher)
  - UPL* Data Available
  - RFC connection to SolMan

**Test Scope Optimization**
- **Recommended System:** QAS
- **Pre-requisites**
  - Trusted RFC connection to SolMan
  - ST-PI 09 (or higher)

* UPL pre-requisites as of SAP Note 1828848
2. Pre-requisites for Managed Systems

- Identify systems for different system roles required by SEA
- Ensure all pre-requisites are met for each of the different system roles
- *Refer to Chapter – 3.4 in SEA How-To Guide.*
Usage and Procedure Logging (UPL)
The new way getting the real system usage

Usage and Procedure Logging (UPL)

- UPL is a kernel based logging technology providing runtime usage information of ABAP procedure units like methods, function modules, subroutines and much more...
- UPL complements the standard ST03N workload statistics of ABAP executables
- UPL provides 100% reliable usage analysis without measurable performance impact
- UPL is available as of SAP Netweaver 7.01 SP10 with Kernel 720 Patch 94
- Pre-requisites refer to SAP Note: 1828848

SAP Business Suite System like SAP ERP (system role: PRD)

SAP Solution Manager

1. Execute business transaction
2. Load ABAP procedure units
3. Log ABAP usage
4. Evaluate usage
3. Setup Custom Code Management

- Complete steps 1 - 6 in **Custom Code Management** section
- Access: Work Center – “Solution Manager Configuration” or transaction – SOLMAN_SETUP
- Ensure extractors for “CC_Gen, CC_Ref and UPL” are activated in Step 6
- Refer to Chapter – 4.1.3 in SEA How-to Guide
1, 2, 3... Done!