System Recommendations in SAP Solution Manager 7.2 SP 8

Meet the Expert session powered by SAP Enterprise Support Academy

Julia Sheyanova, SAP Enterprise Support Academy
Frank Buchholz, SAP CoE Security Services
March, 2019
Agenda

- System Recommendations Introduction
- Setup System Recommendations in SAP Solution Manager 7.2
- Start working with System Recommendations in SAP Solution Manager 7.2
- Additional Customizing Possibilities
- Additional Information
Where can you find this Slide Deck?

https://support.sap.com/sysrec
Where can you find the Recordings?

Recording from March 2016
https://service.sap.com/sap/bc/bsp/spn/esa_redirect/index.htm?gotocourse=X&courseid=70306138
SAP Notes

You have to apply various types of notes and patches to keep your SAP systems up-to-date and secure.

- **Security notes**: SAP's expert advice regarding important actions and patches to ensure the security of your customers’ systems: [https://support.sap.com/notes](https://support.sap.com/notes) for Document Type = SAP Security Notes
- **Performance relevant notes**: SAP notes containing information and corrections for performance improvement of SAP systems
- **Java patches**: A patch is a code-correction for a specific version of an SAP product.
- **Legal change notes**: Respond to requirements caused by changes in legal regulation
- **HotNews**: SAP customer notes with priority 1 (very high priority) to resolve or avoid problems that can cause the SAP system to shut down or lose data.
- **Others like system measurement notes and correction notes**: Notes having ABAP correction instructions
Where to get information and recommendations about new released SAP Notes

- Your can set up filters and notifications function in SAP Support Portal to be informed about the new notes: https://support.sap.com/notes

OR

- (Recommended) You can use System Recommendations function in SAP Solution Manager to check all relevant notes and patches for the selected systems and easily keep all of your systems up-to-date.
System Recommendations - Advantages & Features

- Increase system security by applying up-to-date security-relevant notes exactly tailored for the respective system
- Provides a detailed recommendation based on the system release and already implemented SAP notes
- Easy-to-use filter settings allow exact selection of system or solution

- The recommendations comprise the following notes categories:
  - Security notes
  - HotNews
  - Performance relevant notes
  - Legal Change notes
  - System Measurement notes
  - Correction notes (deactivated by default)

- Integration into Change Request Management (ChaRM) to directly create Requests for Change for the selected notes
- Integration with Usage Procedure Logging (UPL) to distinguish between used and unused code
- Integration into Change Impact Analysis to calculate the impact and testing scope
How System Recommendations supports your Security Process flow

**SAP Patch Day**

SAP releases security patches on the second Tuesday every month

https://support.sap.com/securitynotes

**System Recommendations**

Select system(s) to check & update and the time frame

System Recommendations identifies the relevant patches and SAP notes

**Implementation Tools**

The checked relevant SAP notes and patches are applied to the SAP system using the corresponding tools, e.g. SNOTE, SUM.
System Recommendations
Setup in SAP Solution Manager 7.2
System Recommendations: Setup in SAP Solution Manager 7.2 Entry point

Generally the System Recommendations scenario is ready to be used when the following guided procedures have been successfully finished:

- **Mandatory configuration** (transaction `SOLMAN_SETUP`)
  - System Preparation
  - Infrastructure Preparation
  - Basic Configuration

- **Managed Systems Configuration**
System Recommendations: Setup in SAP Solution Manager 7.2

RFC connection SAP-OSS

Check setup of RFC destination SAP-OSS

- Transaction SOLMAN_SETUP
  - System Preparation
  - Step 3.1 Setup Connectivity
  - RFC destination SAP-OSS should be successfully created and rated green.

- You can additionally check this RFC in transaction SM59
  - ABAP Connections
  - Choose RFC destination SAP-OSS
  - Utilities
  - Test
  - Authorization test
System Recommendations: Setup in SAP Solution Manager 7.2
System Recommendations job

Check schedule of System Recommendations Job

- **Transaction** SOLMAN_SETUP
  - Basic Configuration
  - Step 2 “Schedule Jobs”
  - Select the System Recommendations job and schedule it by clicking on “Schedule Jobs as Planned” either weekly or daily

- You might want to adjust the schedule in transaction SM37 for job SM:SYSTEM_RECOMMENDATIONS to ensure that the job runs at least every Tuesday after midnight (CET/CEST)
Enable System Recommendations for managed systems

- **Transaction** `SOLMAN_SETUP`
  - Managed Systems Configuration
  - Select technical system (with green RFC status)
  - Start full or minimal configuration
  - Navigate to step 5 “Enter Landscape Parameters”
  - Set the mark to “Enable System Recommendations”
Enable System Recommendations for Managed Systems

Apply Settings for System Recommendations

- **Transaction SOLMAN_SETUP**
  - Managed Systems Configuration
  - Select technical system (with green RFC status)
  - Start full or minimal configuration
  - Navigate to step 8 “Finalize Configuration”
  - Ensure that this step has been executed and rated green
A user with minimal authorizations for SysRec would get at least following (adjusted) roles:

**Access to Fiori App on the Frontend Server:**
- SAP_STUI_SYSREC_TCR: Solution Manager: System Recommendations Technical Catalogue

**Access to Workcenter on the SAP Solution Manager:**
- ZSAP_SMWORK_BASIC: Work Center: Basic Authorization Objects
- ZSAP_SMWORK_CHANGE_MAN: Work Center: Change Management
- ZSAP_SMWORK_CONFIG: Work Center: Solution Manager Configuration (optional)

**Authorizations for application System Recommendations on the SAP Solution Manager:**
- ZSAP_SYSREC_ALL: System Recommendations (WC Change Management)

See section “Implementation Information” at:

SAP Fiori apps reference library
https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/

→ SAP Fiori apps reference library - Check System Recommendations
https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer/index.html#?appId=F1354
Main authorization objects in the SAP Solution Manager used by System Recommendations:

**SM_FUNCS**  
Access to results in System Recommendations in general

**AI_LMDB_OB**  
Access to results for specific technical systems

with

ACTVT=03; LMDB_DOMA=LDB; LMDB_NAMES=ACTIVE; LMDB_MTYPE=TECSYST; LMDB_STYPE=<system type>; LMDB_OBJID=<system name>

Here is an example which gives only access to ABAP-systems having names starting with A:
Start working with System Recommendations in SAP Solution Manager 7.2
Call transaction SM_WORKCENTER to start Fiori Launchpad

Navigate to Change Management area and start System Recommendations application

Tip: You can store your own individual views and selections as Fiori tiles, e.g., security notes in the status “new” for systems you are responsible for.
System Overview

Mark one or several systems and select one of available actions:

- **Show Support Packages Patches** to prepare an update of the selected system(s)
- **Show SAP Notes** to work with the list of recommended SAP notes for the selected system(s)
- **Refresh SAP Notes** to run the corresponding background job, collecting the information.
SAP Notes Overview

- You can filter this list of available SAP notes by
  - Technical system
  - Release date
  - Note type
  - Note status
  - Note number

- Use Advanced Search for further filter options.

- Click on the note number or short text for more details.

- At Actions you can navigate to the Object List, or Prerequisite Notes, or Side Effect notes for the selected SAP notes.
Advanced Search

In the Advanced Search you can reduce the list of SAP notes:

- Only SAP notes in status New and New version available are shown by default. Keep this in mind working with the note list. Other note types can be selected manually if needed.
- SAP notes marked Kernel in the corresponding field contain kernel corrections.
- Release-dependent SAP notes should be implemented.
- For Release Independent SAP notes the relevance can’t be determined automatically. System administrator should check the resulting list.
- You can search for individual note numbers, too.
- After setting filters click on Search button.
Integration with Support Portal

Clicking on the Note number or on the short text navigates you to this note on the SAP Support Portal https://support.sap.com/notes
Log area of SAP Note Details:

- Status records and comments are stored with timestamp and user and never get modified or deleted
- Using Actions → Change Status you can change the current status or add a comment to this SAP note
The Change Status Option allows to adjust the status individually (for one SAP note). Alternatively you can use cross-system mass status management.

- You can customize your own status values, e.g. for “fast track transport”, “normal transports”, or specific projects (see slides about “Additional Customizing Possibilities” below).
Note Details: Integration with Usage Procedure Logging (UPL)

The information about the usage count comes from UPL

For additional information please refer to How-To Guide SAP Custom Code Management / Usage and Procedure Logging
Note Details: Prerequisite Notes

- A list of prerequisite SAP notes for the selected one is available
- Using “Action” menu it is possible to change the notes status
- Using “Integrated Desktop Actions” it is possible to download the SAP notes into the managed systems from SAP Solution Manager directly (Over trusted RFC and corresponding authorizations).

Or start integrated Change Impact Analysis or Change Request Management
Confirm download of SAP Notes into managed system

- Check the system ID and click on **Confirm Download**
- Transaction **SNOTE** will be automatically called in the new window and you can start with the note implementation
Show Support Package Patches

Select at least one system for which you want to install a support package patch and choose Actions → Show Support Package Patches
Support Package Patch Overview for Java

- Select the support package patches you want to download and choose *Put in Download Basket*.
- Open “Software Downloads” on Support Portal and navigate to the Download Basket [https://launchpad.support.sap.com/#/downloadbasket](https://launchpad.support.sap.com/#/downloadbasket)
- Download and install the support package patches
Integration with Change Impact Analysis and Change and Request Management (ChaRM)

- The Change Impact Analysis has been automatically opened in the new window
- The Object Type and Object Name of the selected SAP note are taken over.

- A new Request for Change (RfC) has been created automatically
- You can be navigated to the RfC by clicking on its number
Request for Change created from System Recommendations

- The RfC Description “Created from System Recommendations” and the user data are taken over into General Data
- The note number is added into SAP Notes Assignment Block (AB)
Additional Customizing Possibilities
### Adding additional SAP Note Types

<table>
<thead>
<tr>
<th>Field Value</th>
<th>Type</th>
<th>Retrieved by default in System Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>HotNews</td>
<td>✓</td>
</tr>
<tr>
<td>S</td>
<td>Security Notes</td>
<td>✓</td>
</tr>
<tr>
<td>L</td>
<td>Legal Change Notes</td>
<td>✓</td>
</tr>
<tr>
<td>P</td>
<td>Performance Notes</td>
<td>✓</td>
</tr>
<tr>
<td>A</td>
<td>System Measurement / License Audit Notes</td>
<td>✓</td>
</tr>
<tr>
<td>C</td>
<td>Correction Notes</td>
<td>✗</td>
</tr>
</tbody>
</table>

Correction notes (Type C – containing vital corrections to the SAP Solution Manager core functions) must be specified manually to be retrieved:

- Call transaction `SM30_DNOC_USERCFG_SR`
- In the field `SYSREC_NOTE_TYPES` add or remove the relevant values
### Status and comments customizing (1)

<table>
<thead>
<tr>
<th>Status ID</th>
<th>Default Statuses</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMP</td>
<td>To Be Implemented</td>
</tr>
<tr>
<td>INP</td>
<td>New Version available</td>
</tr>
<tr>
<td>NEW</td>
<td>New</td>
</tr>
<tr>
<td>NOR</td>
<td>Irrelevant</td>
</tr>
<tr>
<td>PSP</td>
<td>Postponed</td>
</tr>
<tr>
<td>FILE</td>
<td>Directory Traversal Project</td>
</tr>
<tr>
<td>SACF</td>
<td>Switchable Authorizations</td>
</tr>
<tr>
<td>URGENT</td>
<td>Urgent corrections</td>
</tr>
<tr>
<td>POST_SP</td>
<td>Post-activities after SP upgrade</td>
</tr>
</tbody>
</table>

To add your own status proceed as follows:

- Call transaction **SM30**
- Maintain table **AGSSR_STATUS**
- Edit the information in the table in all required languages
- Save your changes
### Status and comments customizing (2)

**Example (Table AGSSR_SYSNOTEC)**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>System</th>
<th>Version</th>
<th>Type</th>
<th>Status</th>
<th>System</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001487330</td>
<td>BTF</td>
<td>ABAP</td>
<td>NEW</td>
<td>ROB</td>
<td>ROB</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001487606</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001488406</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001490172</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001494079</td>
<td>FQ7</td>
<td>JAVA</td>
<td>NEW</td>
<td>ROB</td>
<td>ROB</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001497104</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001501945</td>
<td>FQ7</td>
<td>JAVA</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001502781</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001507721</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ROB</td>
<td>ROB</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001509604</td>
<td>FQ7</td>
<td>JAVA</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001523254</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001523839</td>
<td>FQ7</td>
<td>JAVA</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001526853</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>IMP</td>
<td>IMP</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001529005</td>
<td>FQ7</td>
<td>JAVA</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001542033</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001543851</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001550925</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001552405</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
<tr>
<td>0001555144</td>
<td>SD7</td>
<td>ABAP</td>
<td>NEW</td>
<td>ET</td>
<td>ET</td>
<td>SR_TST_01</td>
</tr>
</tbody>
</table>

© 2019 SAP SE or an SAP affiliate company. All rights reserved.
Hide not relevant Application Components

To hide Application Components not relevant for your system:

- Call transaction **SM30**
- Maintain table **AGSSR_OSDB**
- Set components not matching your used OS and DB to **Inactive** (for additional information refer to the next slide).
- Save your changes
## Overview about Application Components for DB/OS:

### Databases
- **ADA** BC-DB-SDB
- **ADA** BW-SYS-DB-SDB
- **DB2** BC-DB-DB2
- **DB2** BW-SYS-DB-DB2
- **DB4** BC-DB-DB4
- **DB4** BW-SYS-DB-DB4
- **DB6** BC-DB-DB6
- **DB6** BW-SYS-DB-DB6
- **HDB** BC-DB-HDB
- **HDB** BW-SYS-DB-HDB
- **HDB** HAN-DB
- **INF** BC-DB-INF
- **INF** BW-SYS-DB-INF

### Operating Systems
- **AIX** BC-OP-AIX
- **AIX** BC-OP-BUL
- **HP-UX** BC-OP-HPX
- **SOLARIS** BC-OP-FSC-SOL
- **SOLARIS** BC-OP-SUN
- **LINUX** BC-OP-LNX
- **LINUX** BC-OP-PLNX
- **LINUX** BC-OP-ZLNX
- **SUNOS** BC-OP-SUN
- **TRU64-UNIX** BC-OP-CPQ
- **UNIX** BC-OP-TRU64
- **UNIX** BC-OP-AS4
- **WIN-NT** BC-OP-NT
- **Z/OS** BC-OP-S390

### DB2
- **BC** DB
- **SDB**

### DB2
- **SYS**
- **DB**
- **SDB**

### DB6
- **BC** DB
- **HAN-DB**

### HDB
- **BC** DB
- **HDB**

### INF
- **BC** DB
- **INF**

### LVC
- **BC** DB-LVC

### MSS
- **BC** DB-MSS
- **BW** SYS-DB-MSS

### ORA
- **BC** DB-ORA
- **BW** SYS-DB-ORA

### SAP
- **BC** DB-SDB
- **BW** SYS-DB-SDB

### SYB
- **BC** DB-SYB
- **BW** SYS-DB-SYB

### TD
- **BC** DB-TD
- **BW** SYS-DB-TD

### SINIX
- **BC-OP-FSC-REL**

### SOLARIS
- **BC-OP-FSC-SOL**

### SUNOS
- **BC-OP-SUN**

### TRU64-UNIX
- **BC-OP-CPQ**
- **BC-OP-TRU64**

### UNIX
- **BC-OP-CPQ**
- **BC-OP-TRU64**

### WIN-NT
- **BC-OP-NT**

### Z/OS
- **BC-OP-S390**
General Customizing and Personalization

Transaction SM30_DNOC_USERCFG_SR

SYSREC_STATUS_FILTER (*)
Defines which SAP Notes are counted on the overview page: By default it only shows SAP Notes that are in the 'new' or 'new version available' status.

SYSREC_UPL_ACTIVE (*)
Activate/deactivate the integration with UPL while showing the object list of ABAP notes.

SYSREC_UPL_MONTH (*)
Count of month for which UPL data get loaded. The default is 2 which represents the current and the previous month.

SYSREC_NOTE_TYPES
Defines for which types of SAP Notes the application calculates results. Enter the list of characters representing the note types HotNews, Security, Performance, Legal Change, License, Audit, and Correction.

SYSREC_LAST_MONTHYEAR
Defines the earliest calculated SAP Notes. By default the application calculates all SAP Notes which were released between January 2009 and the current month.

SYSREC_BPCA_USER
Defines if the current user should be added as selection for BPCA.

SYSREC_BPCA_DATE
Defines the earliest filter for BPCA results. You can change the start date for this period.

SYSREC_CHARM_LOG_TYPE
Defines the text id according to table TTXID for the text object CRM_ORDERH.

SYSREC_CHARM_USER
Defines if the current user should be added as selection for ChaRM.

SYSREC_CHARM_DATE
Defines the earliest filter for ChaRM results. You can change the start date for this period.

SYSREC_OBJECT_EXP
Lifetime of the cache which contains the object list of SAP notes. The default is 14 days.

SYSREC_REQ_EXP
Lifetime of the cache which contains the required notes of SAP notes. The default is 14 days.

SYSREC_SIDE_EFFECT
Lifetime of the cache which contains the side-effect notes of SAP notes. The default is 14 days.

SYSREC_UNSUPPORTED_SYSTEM (*)
System types which you want to block from SysRec (one entry per system type)

SYSREC_UNUSED_SUBHR
Calculate results for unused HR components (see note 2712210)

(*) User specific personalization
Fiori Web Assistant – In-Application Help
Fiori Web Assistant – In-Application Help

Prerequisites:
- Configure profile parameters and redirect file for SAP Web Dispatcher
- Create Fiori Catalog with specific target mapping
- Create role containing the Fiori Catalog and assign it to all users

References:
- Online Help - Setup of In-Application Help
- Blog - S/4HANA – HowTo: Activate context-sensitive help from SAP
System Overview

What’s this App?
Here, you can manage the SAP Notes and support package patches that are not yet implemented and installed on your managed systems.
For more information, see System Recommendations (link is defect).

System Overview
Shows all the systems for which the background job is running successfully.

System Types
The system type is read from the LMBD.
Choose a system type to filter for these systems.

Sort, Filter, and Group
You can sort by attribute, as well as filter by technical system, IT admin role, and system priority.
You can group by system type and favorites.

System Types
Filter for a system type

Display the systems that are relevant for you
System Overview

Refresh SAP Notes
After refreshing the status of the SAP Notes that are implemented on the managed systems, only the SAP Notes are displayed that are available, but that are not fully implemented.

Thus, you can quickly check whether certain SAP Notes are already implemented.

Integrated Desktop Actions
You can show requests for changes and change impact analyses for one or several systems.

Refresh SAP Notes
Refresh the status of the SAP Notes that are implemented on the managed systems.

Integrated Desktop Actions
On the System Overview screen, you show information for one or several systems.
Note Overview

**Implementation Status**

New shows new SAP Notes (after the last run).
New Version shows whether there is a new version for an SAP Note that you did not already set a processing status for.
Updated shows whether there is a new version for an SAP Note that you are already processing.

When an SAP Note is in implementation status New Version or Updated, consider to re-evaluate its processing status.

**Processing Status**

You can assign workflow statuses, but you can also customize statuses that reflect implementation projects. Thus, you can assign SAP Notes to projects.

You can also assign comments when changing a processing status. The comment is displayed on the Show SAP Note detail page.

**Export**

Download the SAP Notes to a file in CSV format.

When downloading the SAP Notes overview file, the following applies:

Only the SAP Notes are included in the file that apply to the current filter criteria.

Regardless of which columns are displayed on the UI, the file contains all available columns, to provide a maximum of information.
Note Overview

Save as Tile
Filter for specific attributes such as systems or priority.

Choose Save as Tile.
You can now access the SAP Note Overview with your filters from a launchpad tile.

Integrated Desktop Actions
You can download SAP Notes, create requests for changes, and start change impact analyses for one or several systems.

Integrated Desktop Actions
On the SAP Note Overview screen, you perform the integrated desktop actions.
Save as Tile

Filter for specific attributes such as systems or priority.

Choose Save as Tile.

You can now access the SAP Note Overview with your filters from a launchpad tile.

Integrated Desktop Actions

You can download SAP Notes, create requests for changes, and start change impact analyses for one or several systems.
[CVE-2018-2463] Server-Side Request Forgery (SSRF) in SAP Hybris Commerce

Priority: 3 - Correction with medium priority
Category: A - Program error
Security Category: S - Support Package Notes
Correction Types:
System Measurement:

Usage Count
For ABAP systems, shows the data that is available from Usage and Procedure Logging.

Usage Count
Shows the Usage and Procedure Logging data
Additional information
Troubleshooting: Application Log

Use transaction **SLG1** for log object **AGS_SR** to inspect the application log for the background job of System Recommendations.
Troubleshooting: Support Tools for System Recommendations

Note [2427140](#) / [2423962](#) - SYSREC: Support tool for Solution Manager

Report **AGSNO_RPT_EASY_SUPPORT** records the same data sent from your SAP Solution Manager system to SAP backend during note calculation but in a readable format which is more appropriate for analysis on SAP backend.

**Execution of Report:**

1. Run report **AGSNO_RPT_EASY_SUPPORT** and choose the system ID and the system type (e.g. ABAP or JAVA)
2. Save the generated xml file in your local directory. You can inspect the xml file with any xml viewer.
3. Compress the xml file into a .zip file using the common zip program
4. Create a support ticket on component **SV–SMG–SR** and add the zip file as an attachment.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<asxa:abap xmlns:asxa="http://www.sap.com/abapxml" version="1.0">
  <asxa:values>
    <NOTE_REQUEST>
      <RELEASE>720</RELEASE>
      <EXTRELEASE>0003</EXTRELEASE>
      <NOTES/>
      <BATCH/>
      <NOTE_REQUEST>
      <SYSNAME>TKS</SYSNAME>
      <SYSYTE>ABAP</SYSYTE>
      <LT_TS_INFO/>
    </NOTE_REQUEST>
    <AGS_SR_S_SCV>
      <NAME>BBPCRM</NAME>
      <VERSION>713</VERSION>
      <SPLEVEL>000011</SPLEVEL>
      <PATCHLEVEL/>
      <OS/><DB/>
    </AGS_SR_S_SCV>
    <AGS_SR_S_SCV>
      <NAME>BP_SMG</NAME>
      <VERSION>706</VERSION>
      <SPLEVEL>000005</SPLEVEL>
      <PATCHLEVEL/>
      <OS/><DB/>
    </AGS_SR_S_SCV>
    <AGS_SR_S_SCV>
      <NAME>CORE</NAME>
      <VERSION>757</VERSION>
      <SPLEVEL>000009</SPLEVEL>
      <PATCHLEVEL/>
      <OS/><DB/>
    </AGS_SR_S_SCV>
    <AGS_SR_S_SCV>
      <NAME>COMP</NAME>
      <VERSION>757</VERSION>
      <SPLEVEL>000009</SPLEVEL>
      <PATCHLEVEL/>
      <OS/><DB/>
    </AGS_SR_S_SCV>
    <AGS_SR_S_SCV>
      <NAME>CRM</NAME>
      <VERSION>757</VERSION>
      <SPLEVEL>000009</SPLEVEL>
      <PATCHLEVEL/>
      <OS/><DB/>
    </AGS_SR_S_SCV>
    <AGS_SR_S_SCV>
      <NAME>DSM</NAME>
      <VERSION>757</VERSION>
      <SPLEVEL>000009</SPLEVEL>
      <PATCHLEVEL/>
      <OS/><DB/>
    </AGS_SR_S_SCV>
  </asxa:values>
</asxa:abap>
```
Troubleshooting: Support Tools for System Recommendations

Note 2418578 - Report to batch download solution manager trace files

You use program SMBI_TRACE (see note 1394862) to trace the communication between your SAP Solution Manager system and the SAP Backbone system.

Some applications like System Recommendations (which has the application code SOLMANNOTE) may generate many trace files within a single transaction and it's difficult to manually download all trace files and analyze their content.

Use report AGSNO_RPT_TRACE_DOWN to batch download these trace files and to extract information from them into additional log files. An authorization to read trace file is required to run this report.
Send Configuration Validation reports via email (7.2 SP 3)
Note 2427770 - Configuration Validation: Sending compliance results via email

BW Information Broadcasting is not longer supported in SAP BW 7.40 (Note 2020590)

Conclusion: You cannot schedule broadcast notifications for the System Recommendations BW report in SAP Solution Manager 7.2 anymore

New report to send System Recommendations results via email:

- System Recommendations Report
  **DIAGCV_SEND_SYSREC**

### Missing Security Notes

<table>
<thead>
<tr>
<th>Store Name</th>
<th>Landscape Key</th>
<th>Store Group Name</th>
<th>Compliances</th>
<th>Configuration Item</th>
<th>Configuration Value</th>
<th>Compliance Rule</th>
<th>Extraction Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSTEM_RECOMMENDATIONS_NOTES_PA7_SM</td>
<td>SAP notes</td>
<td>No</td>
<td>0050020706</td>
<td>SHORT_TEXT</td>
<td>READY for Review</td>
<td>PR1ME ALL</td>
<td>17.12.2016 11:22:32</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TASKALLALL</td>
<td>RELEASE_DATE:20160318</td>
<td>PR0XY</td>
<td>0550020706</td>
</tr>
</tbody>
</table>

Dear Security Team,

these are the missing security notes calculated by Solution Manager - System Recommendations.

Yours Sincerely
Automated SysRec Sender
New filter option for notes (7.2 SP 5)

✓ New filter option for individual notes:
Navigate to any notes list and adjust the filter by removing all other filter valued and enter individual note numbers.

✓ Tip for using the date filter
Starting from: 01.01.2017 - 31.12.9999
Range: 10.05.2017 - 13.06.2017
One day: 13.06.2017 - 13.06.2017
Show side effect solving notes (7.2 SP 5)

Show side effect solving notes for selected list of notes:

Show side effect solving notes on detail screen of notes:

Recommendation:
Implement side effect solving notes right after implementation of the original notes

<table>
<thead>
<tr>
<th>Note Number</th>
<th>Short text</th>
<th>Application Component</th>
<th>Priority</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>2058746</td>
<td>Load balancing on some workflow table while viewing process route logs of a case.</td>
<td>BC-SRV-RM</td>
<td>3 - Correction with medium priority</td>
<td>P - Performance</td>
</tr>
</tbody>
</table>

Displaying of process route logs of a case takes longer time

Priority: 3 - Correction with medium priority
Category: P - Performance
Security Category: 
Correction Types:
What’s new in System Recommendations

If a Software Component is not part of ABAP / JAVA / HANA systems in SLD / LMDB you do not find corresponding notes in System Recommendations.

Special Software Components:

BC-FES-GUI added to all ABAP systems as a virtual software component of type 'Support Package Independent' as of May 2017

CRYPTOLIB 8 SP000 added to ABAP and JAVA systems as a virtual software component as of July 2017

SAPHOSTAGENT not covered yet
System Recommendations 7.2 SP 7
Separation between “Implementation Status” and “Processing Status”

The “Implementation Status” is set by the background job automatically
- New: New note
- New version available: Implemented ABAP note for which a new version is available
- Updated: Updated note compared with previous run
- [Implemented]: Implemented notes are omitted in System Recommendations

The “Processing Status” is set by the user manually
- Maintain available status values in customizing table AGSNOTE_STATUS
- Ensure to enter texts in all required languages
- The background job migrates existing status data into the new field once
  If the old status was “New” or “New version available” then the new status becomes “Undefined”
### System Recommendations 7.2 SP 7

**Separation between “Implementation Status” and “Processing Status”**

**SAP Status (fixed values)**

- Implementation Status:
- Processing Status:

**User-defined Status**

**Customizing table AGSNOTE_STATUS**

<table>
<thead>
<tr>
<th>Technical System</th>
<th>Note Number</th>
<th>Short text</th>
<th>Release Date</th>
<th>Application Component</th>
<th>Priority ID</th>
<th>Support Package</th>
<th>Implementation Status</th>
<th>Processing Status</th>
<th>Correction Types</th>
<th>Attributes</th>
</tr>
</thead>
</table>
System Recommendations 7.2 SP 7
New column “Support Package containing the solution” for ABAP notes

You have to activate this column manually

New column showing SP containing the solution

<table>
<thead>
<tr>
<th>Technical System</th>
<th>Note Number</th>
<th>Short text</th>
<th>Release Date</th>
<th>Application Component</th>
<th>Priority</th>
<th>Implementation Status</th>
<th>Processing Status</th>
<th>Correction Types</th>
<th>Attributes</th>
</tr>
</thead>
</table>
System Recommendations 7.2 SP 7

New columns

You have to activate column “Support Package” manually at the settings on the Notes Overview page.

The columns “Implementation Status” and “Processing Status” are activated automatically.
What's new in System Recommendations 7.2 SP 8
Support for Notes which are Relevant for System Measurement

Similar like for HotNews, Performance Notes, or Legal Change Notes you can now identify relevant notes having the attribute „Relevancy for System Measurement“ aka „License Audit Notes“

Limitation: The Notes Search on SAP Support Portal https://support.sap.com/notes does not show a filter option for such notes
What's new in System Recommendations 7.2 SP 8
Support for Notes which are Relevant for System Measurement

Preparation, which only required if you have previously changed the customizing, i.e. to view correction notes, too.

In this case you have to extend the settings via transaction \texttt{SM30\_DNOC\_USERCFG\_SR} for table \texttt{DNOC\_USERCFG}

\begin{verbatim}
SYSREC\_NOTE\_TYPES                                      HSLPCA
\end{verbatim}

See Online Help: \url{https://help.sap.com/viewer/34eaf25a11d54485aecf05e041f78555/107/en-US/aab02c8d37b54536bc3319521ea08eff.html}
What's new in System Recommendations 7.2 SP 8
Support for Notes which are Relevant for System Measurement

You can activate a new filter field on the SAP Note Overview screen:

You can display the System Measurement and System Measurement ID columns on the SAP Note Overview screen via the settings button:

See Online Help: https://help.sap.com/viewer/34eaf25a11d54485aefc05e041f78555/107/en-US/aab02c8d37b54536bc3319521ea08eff.html
What's new in System Recommendations 7.2 SP 8
Support for Notes which are Relevant for System Measurement - Examples

- **Engine Measurement Correction**
  - Note [2621557](#) - ILM Audit Module: Introduction of additional measurement units
  - Note [2512261](#) - FKKINV: Usage measurement for SAP Convergent Invoicing still includes documents for …
  - Note [2294328](#) - Measurement result for metric ID 3216 is 1 too high
  - Note [2254780](#) - Enhancement of software license audit for SAP GTS
  - Note [2234559](#) - Transaction USMM triggers a runtime error DBSQL_SQL_ERROR

- **LAW Consolidation**
  - Note [2407507](#) - LAW 2.0 SDCCN transfer does not work to 7.31
  - Note [2164594](#) - LAW 2.0: Falsche Nutzertypen bei Konsolidierung
  - Note [2112104](#) - LAW 2.0: Fehlende Sortierfunktion im RFC STATUS

- **System Measurement USMM**
  - Note [2213466](#) - System measurement: Performance during determination of user address data
  - Note [2170034](#) - System measurement: Incorrect measurement date is displayed in the License Administration Workbench
  - Note [1900773](#) - System measurement: Automatic measurement via RFC or as a background job

- **RFC Result Transfer**
  - Note [2498932](#) - System measurement job RSUVM017 or RSUVM007 terminates sporadically
  - Note [2170036](#) - LAW 2.0: RFC results from component systems are placed in LAW1 inbox
  - Note [1630359](#) - Report RSLAW_PLUGIN: Error message in case of RFC problems
System Recommendations 7.2
Online Help

Online Help - SAP Solution Manager 7.2 SP 8
https://help.sap.com/viewer/product/SAP_Solution_Manager/7.2.08/en-US

➢ Change Control Management - System Recommendations (abstract only)
https://help.sap.com/viewer/8b923a2175be4939816f0981b73856c7/7.2.08/en-US/61d626565b13e121e121e100000000a4450e5.html

➢ Application-Specific Security Guide - Using System Recommendation Application (security)

Online Help - SAP Fiori for SAP Solution Manager

➢ System Recommendations @ Fiori 1.0 SPS 7 (documentation)
https://help.sap.com/viewer/34eaf25a11d54485aecf05e041f78555/107/en-US/a5e801557f614c55e10000000a4450e5.html
System Recommendations in SAP Solution Manager 7.2
SAP Fiori apps reference library

https://fioriappslibrary.hana.ondemand.com/sap/fix/externalViewer

→ e.g. search for Required Back-End Product
→ SAP Solution Manager
→ Check System Recommendations

At „Implementation Information“ you find references for roles in the Front-End and the Back-End as well as the list of related oData Services.

See Blog
How To Explore “Fiori Apps Reference Library”
System Recommendations

Links

- System Recommendations on the SAP Support Portal [https://support.sap.com/sysrec](https://support.sap.com/sysrec)

- SAP CoE Security Services
  [https://support.sap.com/sos](https://support.sap.com/sos)

  →

  SAP CoE Security Services - Security Patch Process
  Security Notes Webinar (monthly updated)
  [SAP Security Notes Advisory](https://support.sap.com/sos) (monthly updated)
Additional information about general Security topics, Security notes and Security services:

- Security Notes: [https://support.sap.com/securitynotes](https://support.sap.com/securitynotes)
- Security Notes: [https://support.sap.com/notes](https://support.sap.com/notes) → Expert Search for Document Type = SAP Security Note
- SAP Security Services: [https://support.sap.com/sos](https://support.sap.com/sos)
Thank you!

Contact information:

Frank Buchholz  
SAP CoE Security Services  
frank.buchholz@sap.com

Julia Sheyanova  
SAP Enterprise Support Academy  
Julia.Sheyanova@sap.com

Security Patch Process FAQ  
https://scn.sap.com/community/security/blog/2012/03/27/security-patch-process-faq