

The data driven collaboration platform

Overview and Update Session SAP EarlyWatch Alert Workspace

Susanne Glänzer Data Science, Automation & Technology, IDG, SAP SE

PUBLIC





Your Personalized Digital Support Experience



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Agenda - SAP EarlyWatch Alert Workspace

- New features and content introduced in the last 12 month
 - Number range prediction
 - SAP HANA CPU consumption by application source
 - EWM and TM checks
 - Notifications on SAP HANA Memory Forecast
- SAP Integrated Business Planning for Supply Chain



SAP EarlyWatch Alert Workspace

Accelerate collaboration at any time based on ONE common data insight



SAP Front Office

Premium Engagement
Enterprise Support

SAP Backoffice

Mission Control Center Centers of Expertise, Data Science & Analytics, Product Engineering Machine learning technology Embedded artificial intelligence

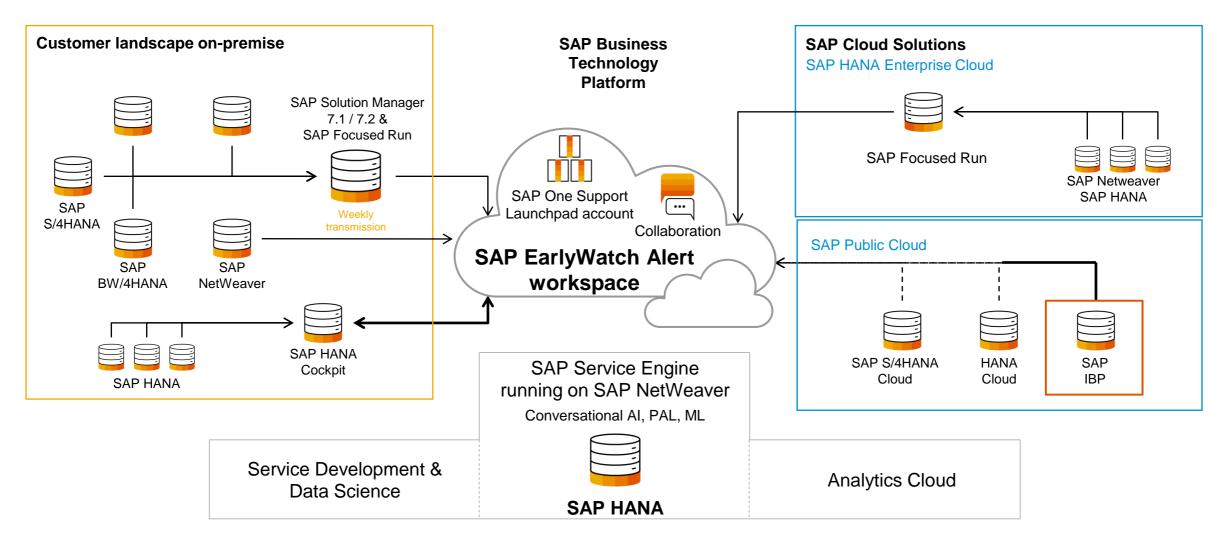
Polls

Do you have regular SAP EarlyWatch Alert Meetings to discuss the alerts?

What is the frequency of the meeting?

SAP EarlyWatch Alert Workspace

The Center of Data-Driven Collaboration





Monitor Your Number Range Objects with SAP EarlyWatch Alert





Calculation of SAP EarlyWatch Alert Coverage based on Workspace

□ 0 63 ● 228





Introduction of application specific Extended Warehouse Management Checks in SAP EarlyWatch Alert

□ 8 69 ● 742





Usage Statistics about EWA Workspace Visits and Notifications for On-Premise



Sep

Mar



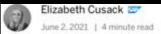
SAP EarlyWatch Alert – Relating SAP HANA CPU Workload to Application Source

₹0 68 € 2,250

Learn more about the top CPU consumers in your SAP HANA database



May



New Tutorial for SAP EarlyWatch Alert Workspace – Fast and confident decision making with system diagnostics at your fingertips!

⊕6 £14 æ3.542



Jul



Introduction of application specific SAP Transportation Management (SAP TM) Checks in SAP EarlyWatch Alert

□ 0 🖒 11 👁 766

Beginning of March 2021, the SAP EarlyWatch Alert service was enhanced to reflect application checks for SAP Transportation Management (SAP TM).



Oct



Nov

SAP EarlyWatch Alert: Notifications for SAP HANA Memory

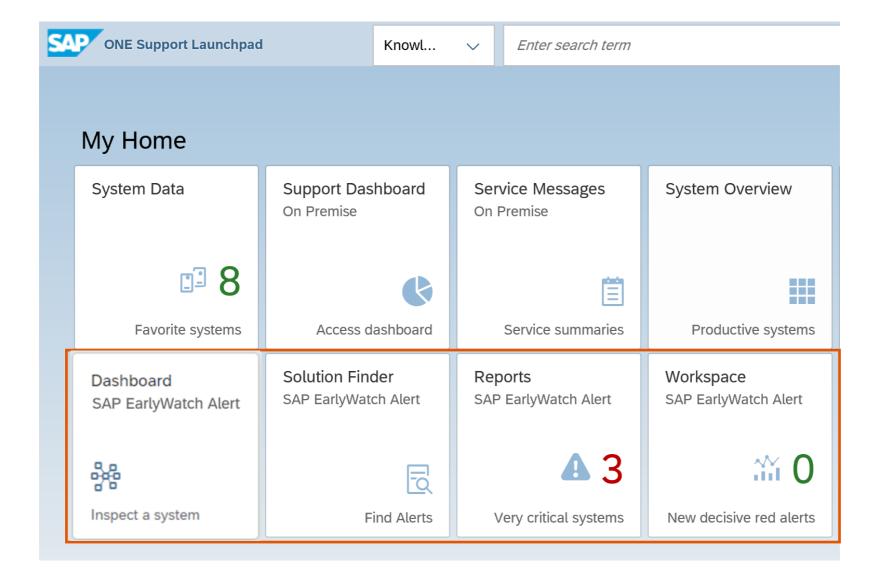
□ 2 6 ● 443



Polls

Did you know about the notification feature for SAP EarlyWatch Alert Predictions?

Configure My Home



SAP EarlyWatch Alert goes Cloud:

EWA Workspace App advantages compared to classical EWA Report

https://video.sap.com/media/t/1_q01f4lpq/188204803

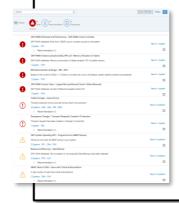
Landscape summary



- Find top risks for business continuity
- Easily identify top improvement actions

Fiori Overview Page Link

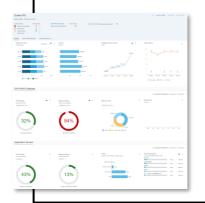
Alert list per landscape



- Aggregated and prioritized alert view
- All report details with time travel
- Export excel with all alerts

Powered by HANA Text Search

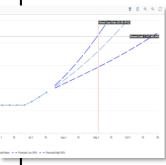
Dashboard per system



- Identify serious bottlenecks
- Find critical trends in KPIs
- 3 years of history

Embedded Analytics via CDS views

Predictive alerts



- Timely forecasts of critical situations
- Avoid business downtimes well in advance

Powered by HANA Predictive Analytics Library (PAL)

2 Billion Limit SAP HANA, Memory Forecast, Number Range Prediction

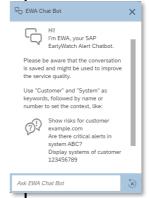
Security risks per landscape



- Get secure and stay secure
- Hardening of security settings
- Perform easy security scans

Fiori Overview Page

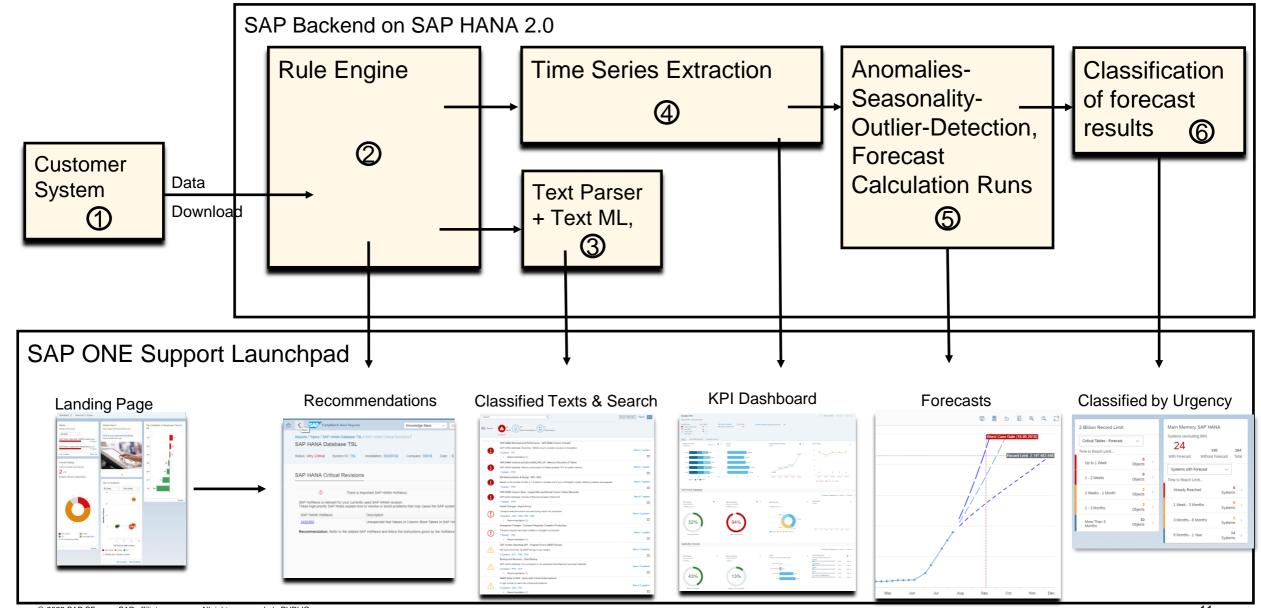
Active collaboration at all times



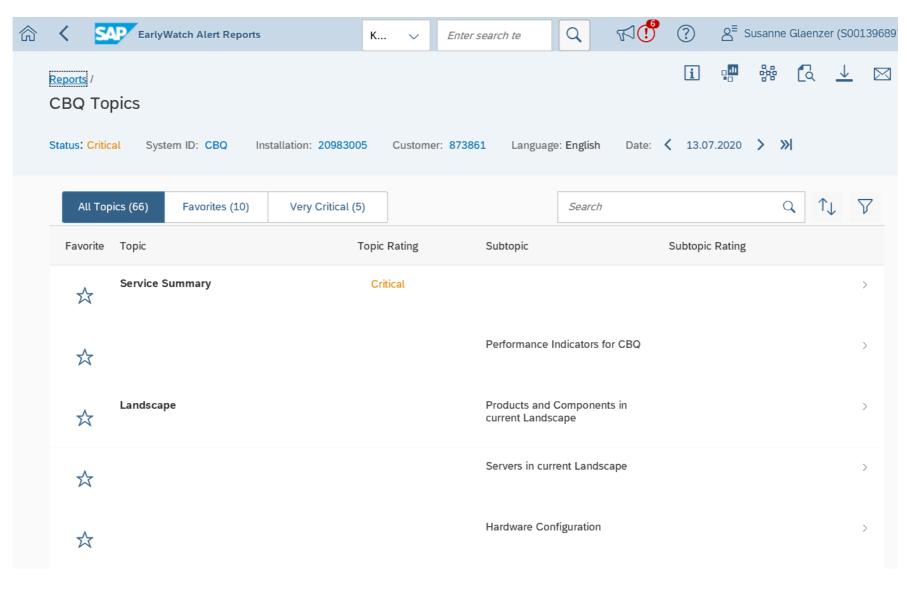
- Get informed about alerts
- Subscribe to new red alerts and predictive alerts

Powered by email notifications

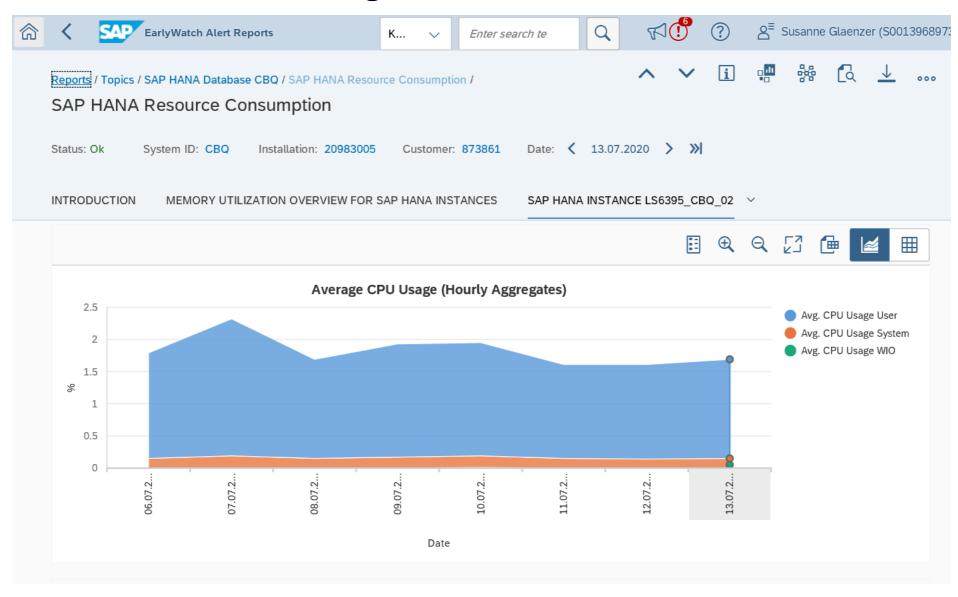
Service Automation for SAP EarlyWatch Alert Workspace



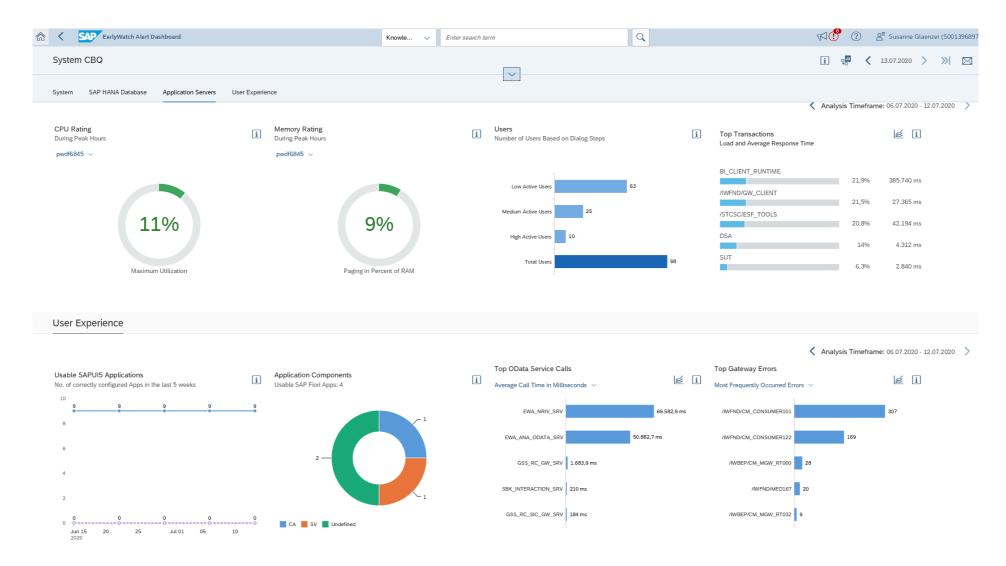
Reports in e-Reader Format



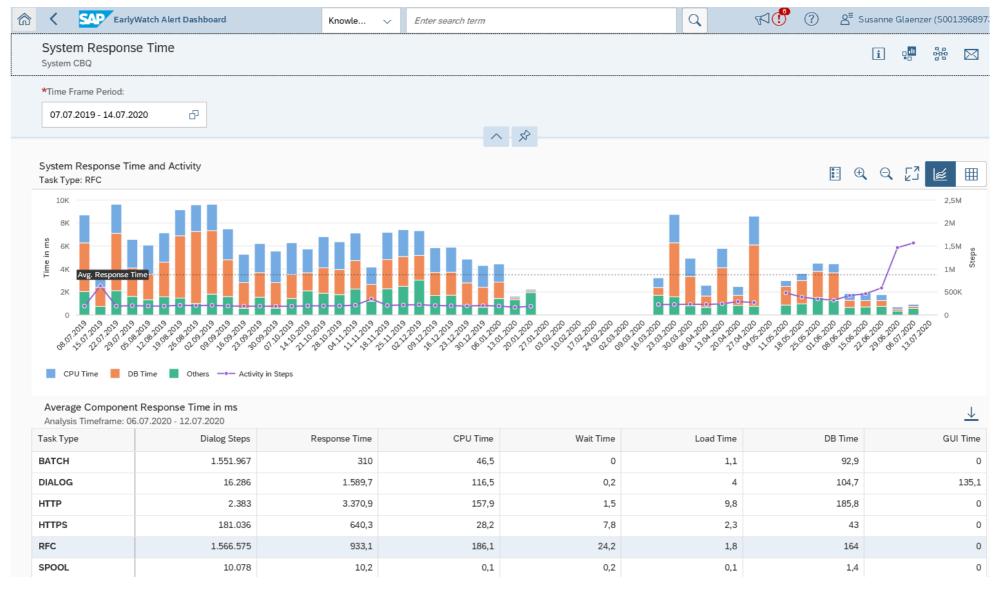
Report Charts as SAP Fiori Diagrams



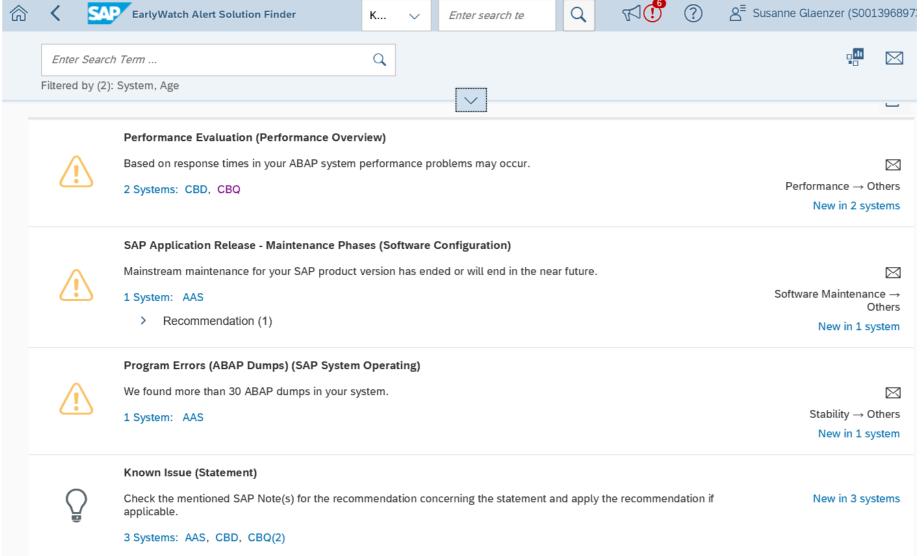
Dashboard per System



Average Response Time – Long-term



Solution Finder



Service Readiness Service Readiness → SAP Backbone Connectivity (0) Service Readiness → Service Data (0)

User Experience

Analysis Timeframe: 20.08.2018 - 26.08.2018

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Usable SAPUI5 Applications

Number of correctly configured Apps in the last 5 weeks



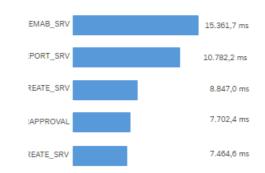
Application Components

Usable SAP Fiori Apps: 26



Top OData Service Calls

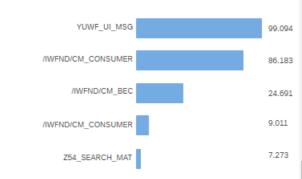
Average Call Time in milliseconds ~



Top Gateway Errors

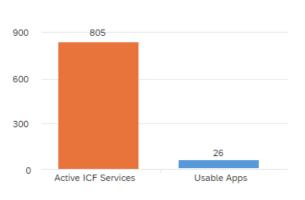
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Most frequently occurred errors ~



ICF Security

Activated vs. Usable Applications



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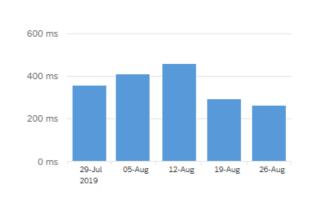
Fiori Launchpad Usage

Number of Launchpad Loads in the last 5 weeks



OData Requests

Average Time of all OData calls in the last 5 weeks \vee

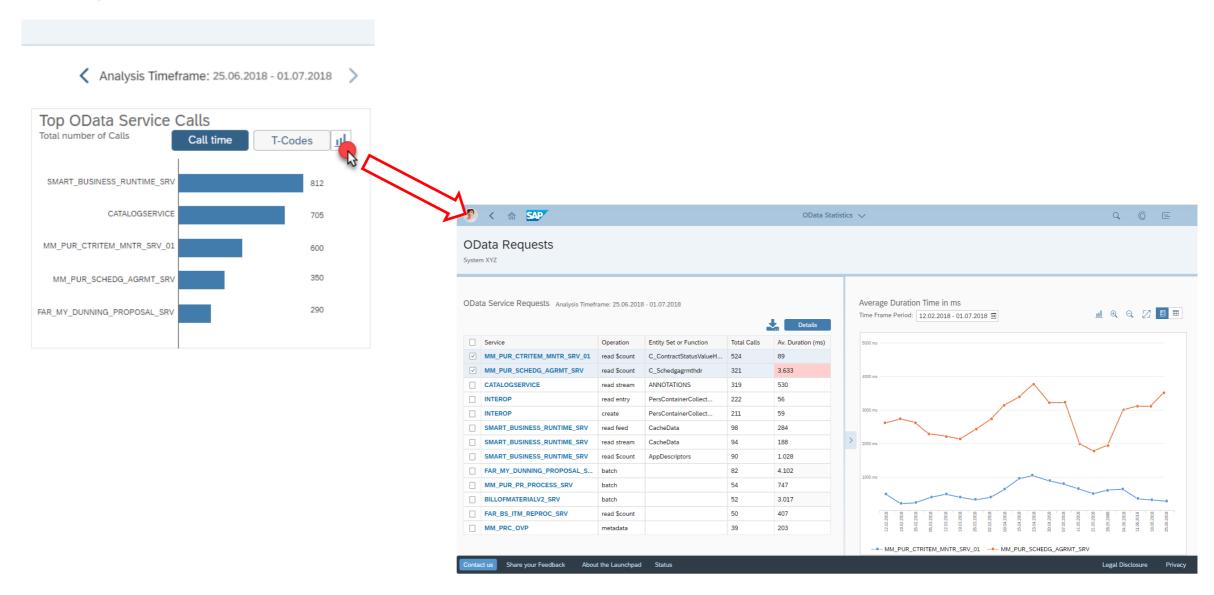


Gateway Errors

Total Number of Gateway Errors in the last 5 weeks



Navigate from the OVP card to the Details View



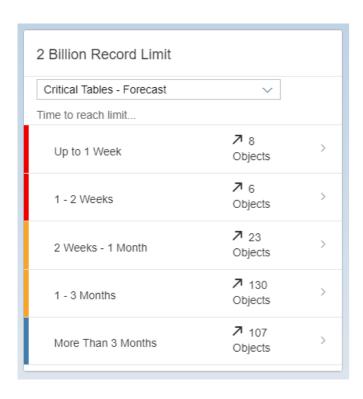
Predictions



Use Cases Using SAP HANA Predictive Analytics Library (PAL)

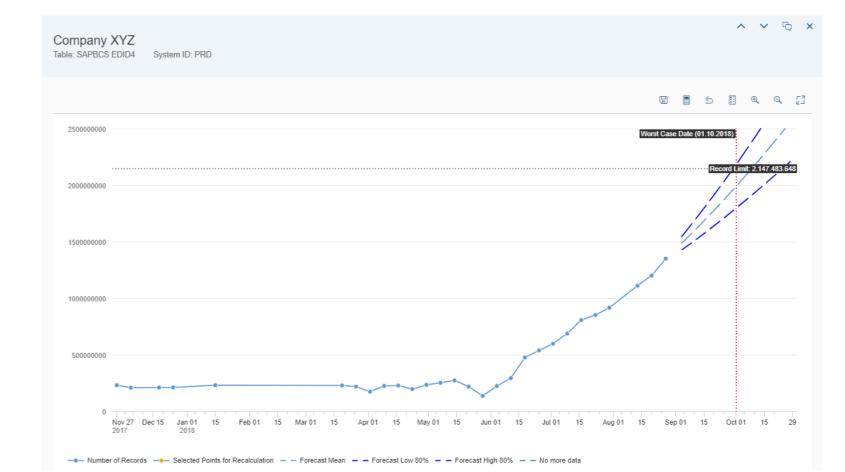
	Two Billion Records	Indexserver Memory Consumption	Data Footprint	Critical Number Ranges in ABAP
Motivation	Prevention of downtime of business processes caused by SAP HANA database tables that exceed the maximum of about 2 billion records	Prevention of out-of- memory-dumps caused by reaching a system's Effective Allocation Limit (EAL)	Support the customer in his IT budget planning by estimating the size of his database	Prevent business downtime due to number range interval exhaustion
Goal	Prediction of date when 2 billion limit is reached	Prediction of date when EAL is reached	Prediction of database growth (row store and column store) within 12-48 months	Predict when interval will be 100% used

First Predictive Use Case: SAP HANA 2 Billion Record Limit



 New card on SAP EarlyWatch Alert Workspace

Historic and predicted growth in one chart



Notification Example

2 Billion Record Limit Forecast (View SAP IT Business Systems)

Critical object in system I3P detected.

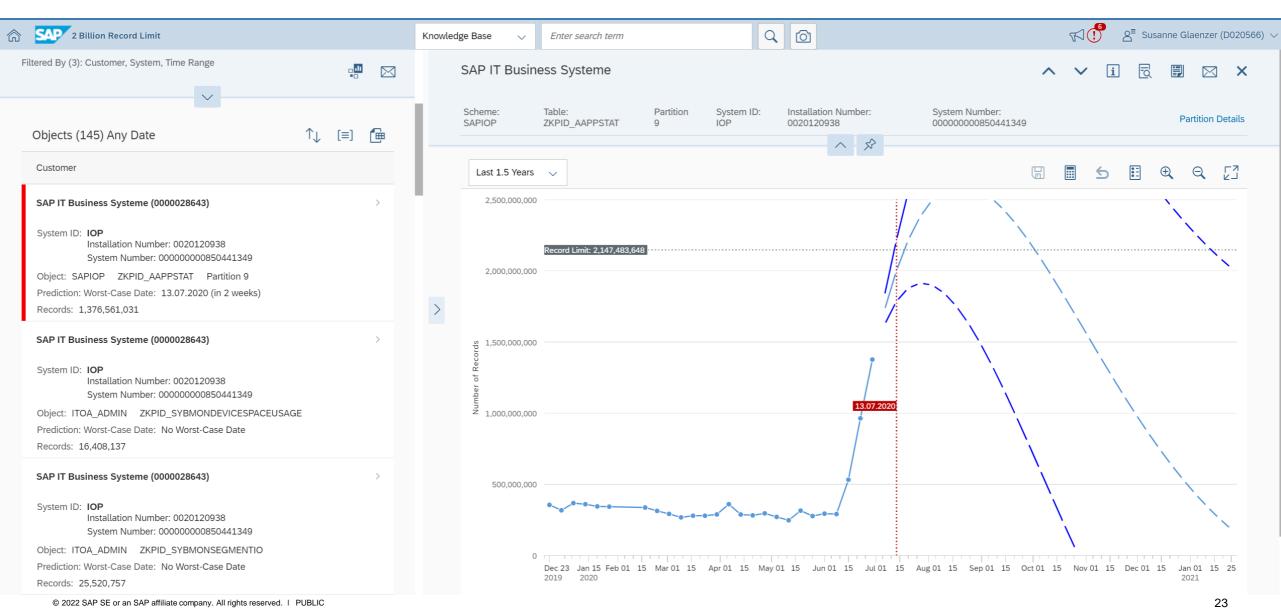
The forecast detected an issue with priority 2: SAPI3P.EDID4 might reach the maximum number of entries. The calculated worst-case date is 24.08.2020. For details, see App URL.

Definition of priority:

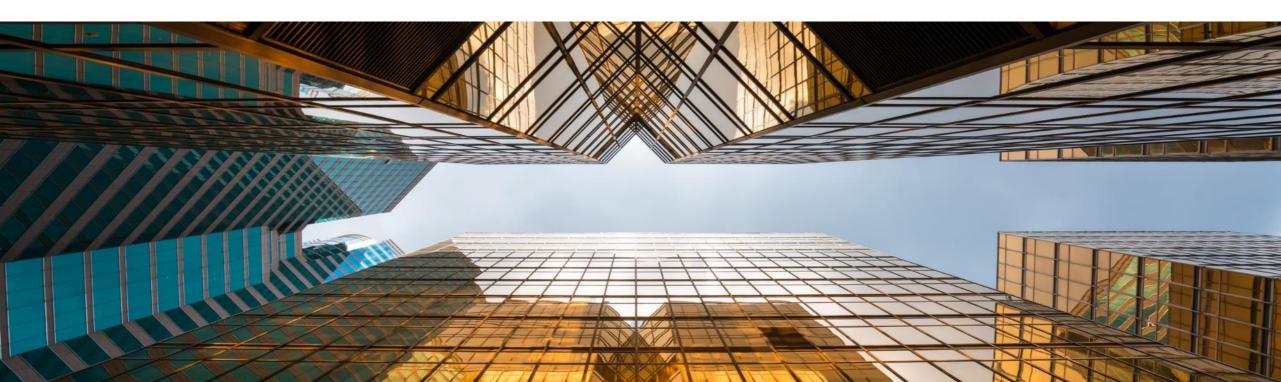
The worst-case date is the result of an unfavorable, yet possible forecast - with a probability of 80% the limit is reached later. The priority depends on the period until this worst-case date is reached:

Priority Period

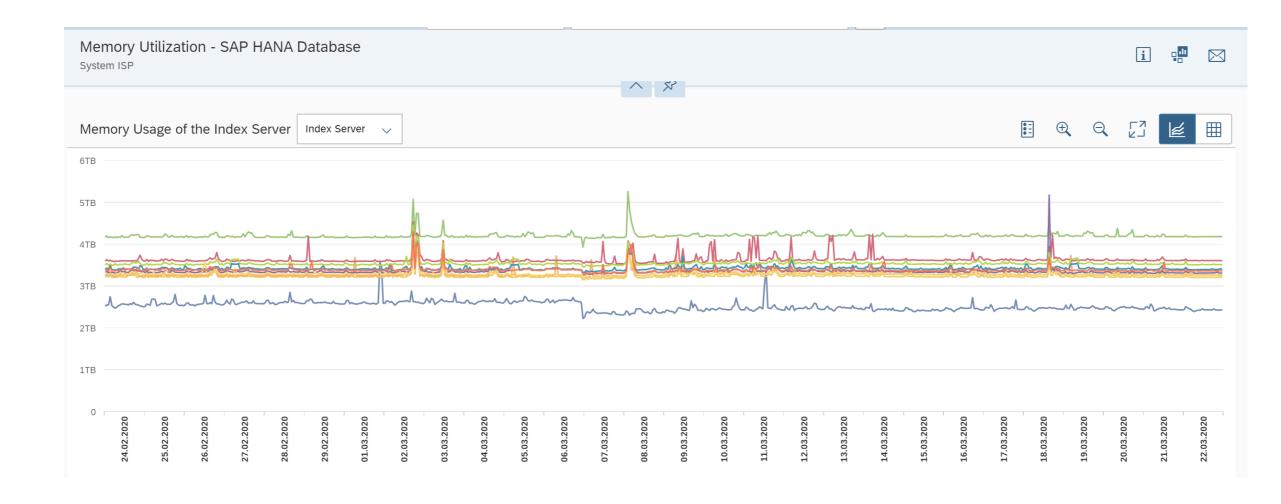
- 1 less than 30 days
- 2 for the first time less than 60 days
- for the first time less than 90 days



SAP HANA Memory Analysis

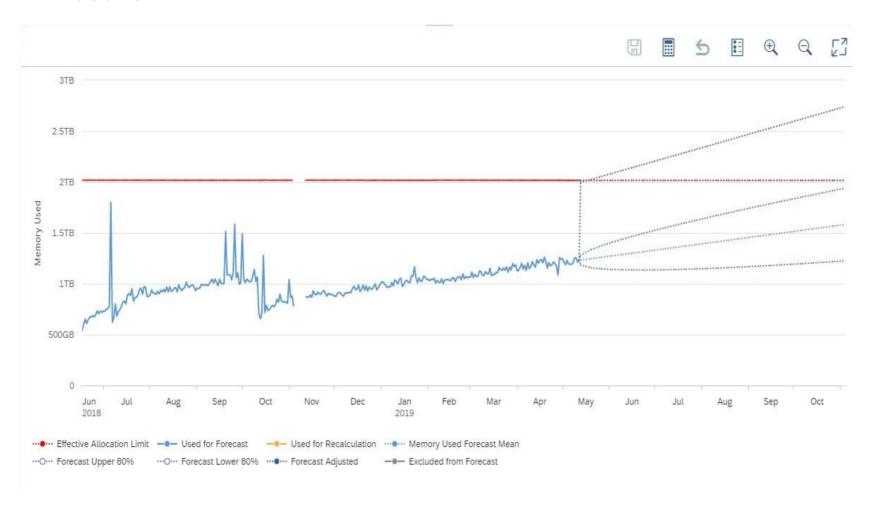


SAP HANA Scale-out: View all nodes in one chart



Indexserver Memory Consumption Use Case

Results:



- Forecast Mean
- 80% Prediction Interval
- Date on which limit is reached
- Forecast Adjusted (consideration of past highest peaks)

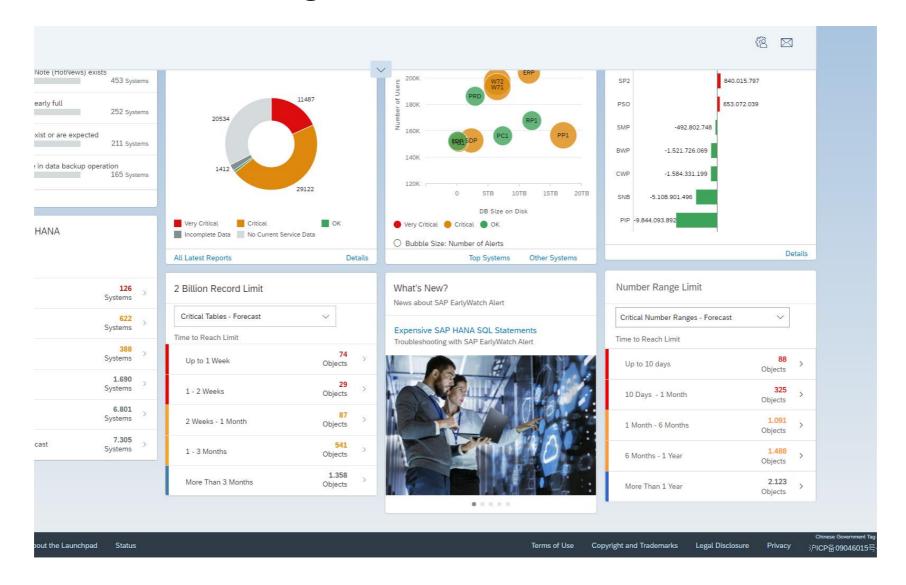
Data Footprint Use Case



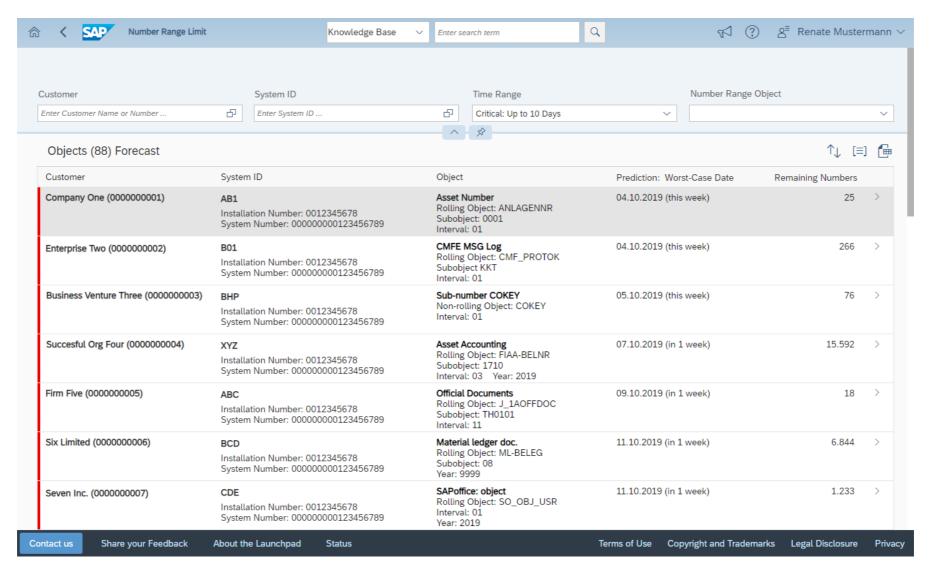
Number Range Prediciton



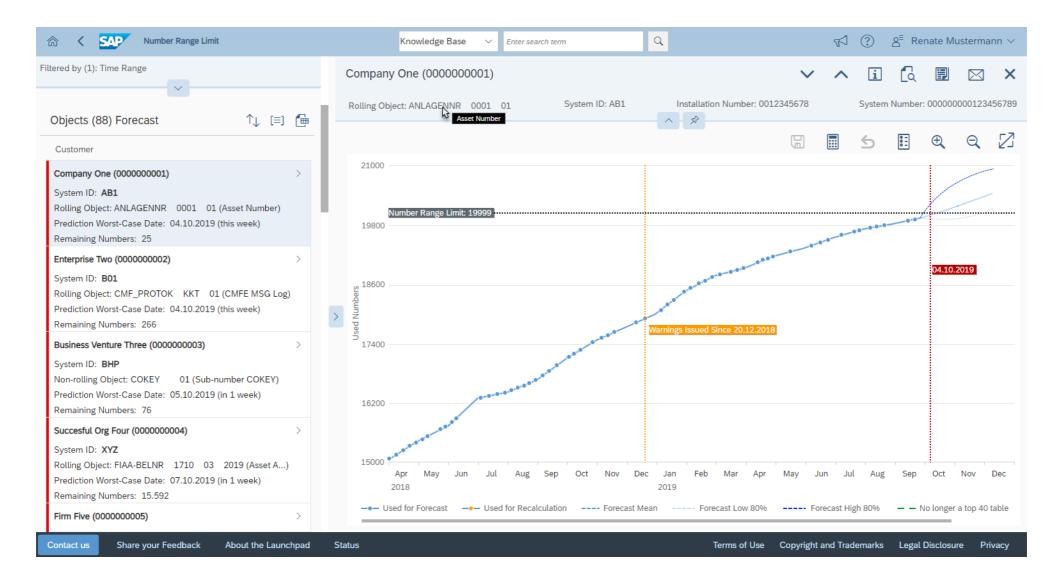
New OVP card "Number Range Limit"



Critical Number Range Intervals



Details with Line Chart



SAP Integrated Business Planning for Supply Chain

Agenda

Concept, Benefits and Availability

Apps to read and work with the findings

How to download the service report

Checks and Topics covered by the service

- Application and Model Configuration
- Data Volume Limit
- Excel Add-in Versions and Parameters
- Purge Jobs

SAP EarlyWatch Alert Workspace

New Service Content for SAP Integrated Business Planning for Supply Chain (IBP)

This service helps you to get the most important recommendations for SAP IBP tailored to your system usage, data growth and settings.

Business needs to

- Understand impact of critical technical findings and boundary conditions
- Take advantage of early notification and issue prediction
- Evaluate and implement recommendation to avoid critical situations

How it works

- Enable and take advantage of SAP EarlyWatch Alert notification send-out from the workspace
- Evaluate SAP EarlyWatch alerts and recommendation tailored for SAP Integrated Business Planning

Application Specifics

- Global IBP Configuration Parameters
- Planning with Microsoft Excel: Warning on outdated versions from end-users
- Excel Add-in Parameters
- Data growth of IBP and schedule of purge operators

Target audience:

 System Administrators, SAP Basis Teams, IBP Application Owners, IT Managers

Links

- S-User authorization "Service Reports and Feedback"
- Blog with Introduction to Workspace
 - SAP EarlyWatch Alert Workspace
- Blog with IBP check details
 - List of Alerts filtered for IBP

How to read and work with the service findings



- 1. Requires an S-User in SAP ONE Support Launchpad or SAP for Me
- 2. Super admin of your company has to assign "Service Reports and Feedback" to S-User for respective customer number(s)
- 3. New report is available every Monday
- 4. Download report or use online Reports app
- 5. Use Solution Finder to work with alerts
- 6. Subscribe to email notifications

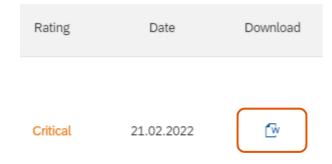
Alert Category:

SAP Public Cloud → SAP Integrated Business Planning (7) ×				
SAP Public Cloud				
\Box SAP Public Cloud → SAP Ariba (1)				
✓ SAP Public Cloud → SAP Integrated Business Planning (7)				

How to download the Service Report

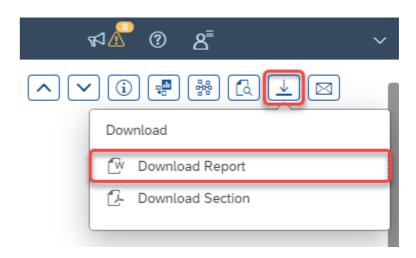
First option:

- Reports App
- Select your system using filters and then:



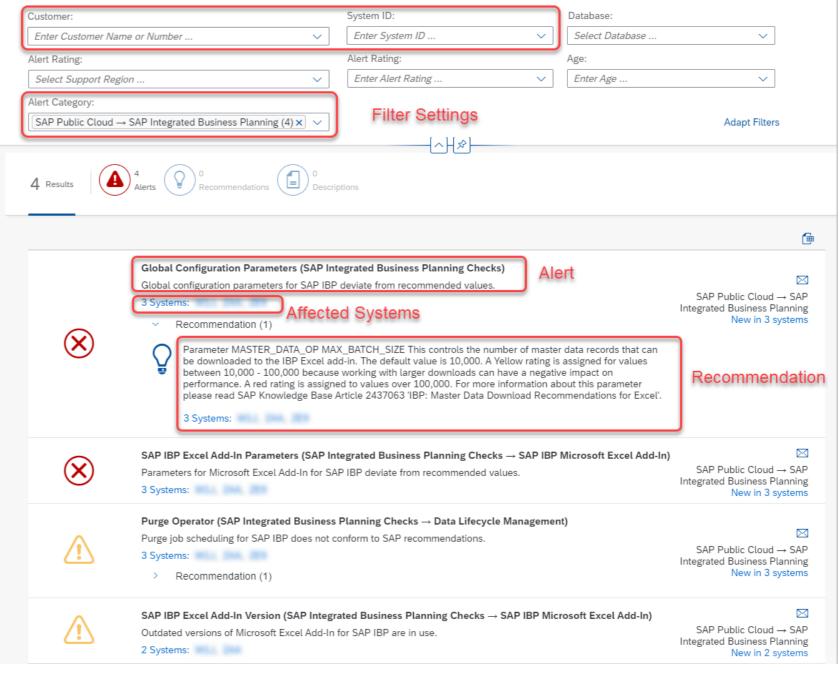
Second option:

- Solution Finder App
- Click on a System ID link first and then:



Filter Options

Alert List



IBP Configuration

The check covers the following areas:

- Integration
- Sales & Operations (S&OP)
- Demand
- Supply

50 Parameters are checked in total

SAP Help on IBP Parameters

3.1 Global Configuration Parameters

In the Global Configuration app, you set values for the parameters that control various features of the IBP applications. SAP delivers default values for some global configuration parameters. You can change the default value based on your business requirements. Nevertheless, some are critical and should not be changed.

For more information you can go to <u>Global Configuration Parameters</u>. The tool there gives details of all IBP parameters and allows you to search by group, name, default value and other criteria.

Based on checks regarding the global configuration parameter of your IBP system, the configuration is not as recommended by SAP. To ensure system stability, you should check these with the business and take corrective action.

3.1.1 General

The values of the parameters are not as recommended by SAP, please correct them if possible.

IBP GLOBAL CONFIGURATION PARAMETERS

Rating	Parameter Group	Parameter Name	Current Value	Recommended Value
	MASTER_DATA_OP	MAX_BATCH_SIZE	100000	1 - 10000

Parameter MASTER_DATA_OP MAX_BATCH_SIZE

This controls the number of master data records that can be downloaded to the IBP Excel add-in. The default value is 10,000. A Yellow rating is assigned for values between 10,000 - 100,000 because working with larger downloads can have a negative impact on performance. A red rating is assigned to values over 100,000. For more information about this parameter please read SAP Knowledge Base Article 2437063 'IBP: Master Data Download Recommendations for Excel'.

3.1.2 Integration

The parameter values follow SAP recommendations.

3.1.3 S&OP

The values of the parameters are as recommended by SAP.

3.1.4 Demand

The values of the parameters are not as recommended by SAP, please correct them if possible.

DEMAND PARAMETERS

Rating	Parameter Group	Parameter Name	Current Value	Recommended Value
	FORECAST	MIN_FORECAST	0	-9999999

3.1.5 Supply

The values of the parameters are as recommended by SAP.

Time Series Entries Limit

SAP Note <u>2986360</u> is referenced which describes what happens when the limit is exceeded, how to configure timedependent AAFKs to avoid the issue, and how to use master data uploads more efficiently.

3.2 Model Configuration

Since IBP is a highly configurable solution, this section reviews the most important topics regarding the model configuration of your IBP system. You can also refer to the configuration and performance recommendations described in SAP Note 2211255.

Based on checks regarding the model configuration of your IBP system, the configuration is as recommended by SAP.

3.2.1 Data Volume Limit on Time-Series Entries

To prevent the system from running out of memory, the number of time series entries that can be created or updated is limited to 10 million per Attribute as Key Figure (AAKF) once the system is normalized. If you have a special agreement with SAP, this limit can be exceeded; however, this is not recommended.

For more information on this topic, see the following SAP Notes:

2986360 Performance impact of creating planning data during master data change/upload (Attribute as key figure)

2922453 Alternative Configurations for Attribute as Key Figure

No uploads were found which reached 60% or more of the record limit.

Excel Add-in Parameters and Versions

13 parameters are checked for this area

outdated add-in versions can impact the performance of planning views and even cause usability issues

3.3 SAP IBP Microsoft Excel Add-In

The time the user waits for the system to respond to their request (e.g. opening a planning view, saving data, creating a planning note, etc.) consists of both front-end time and back-end time. The performance of the planning views in the IBP Excel Add-In are therefore impacted by multiple different factors. Many of them can be influenced positively through the right usage/configuration.

Based on checks concerning the IBP Excel Add-In and the information you provided in the questionnaire, the setup is not as recommended by SAP. To ensure system stability, you should check these with the business and take corrective action.

3.3.1 SAP IBP Excel Add-In Parameters

The values of the parameters are as recommended by SAP.

3.3.2 SAP IBP Excel Add-In Version

Some users are still working with an add-in that is older than the most recent available version. It is recommended that you upgrade all users to the newest version - 2111.

EXCEL ADD-IN LOGINS BY VERSION

IBP Excel Add-In Version	Number of Logins	Rating
2011	1	4
2102	2	4
2108	1	✓

We are continuously working on not only new features, but also on improving the performance of the IBP Excel Add-In. It is therefore highly recommended to bring the users to the latest IBP Excel Add-In so that all recent performance improvements can be leveraged. Information about the latest add-in version can be found in SAP Note 2394311.

Note

You can use the apps User Login Statistics for Excel Add-In and Session Statistics for IBP Excel Add-In to check how many users are still running on older versions and send out e-mails to these users.

Data Growth

More information is provided on the <u>Data Lifecycle Management</u> page on SAP Help Portal.

3.4 Data Lifecycle Management

Data in your system grows over time, and you may find that you have unused data occupying valuable in-memory space. This data isn't used in any business planning functions, but its presence may impact performance or cause other issues. It is therefore vital that you delete unused data regularly. Consider Data Lifecycle Management options mentioned in SAP Help - Data Lifecycle Management and KBA 2728485 during the implementation phase.

Based on checks regarding Data Lifecycle Management in your IBP system, the setup is not as recommended by SAP. To ensure system stability, you should check these with the business and take corrective action.

3.4.1 Purge Operator

To avoid reaching the limit of available memory space and help prevent undesired performance degradation or operational issues, you need to control the volume of data that accumulates in the system. IBP offers different application jobs that you can run to delete different kinds of data. Some of these jobs should be scheduled to run regularly, others can be run on an ad hoc basis.

Note:

The period analyzed for daily jobs is 17.01.2022 - 23.01.2022.

The period analyzed for ad-hoc jobs is 25.12.2021 - 23.01.2022.

PURGE OPERATOR

Rating	Application Template	Recommended Scheduling	Reason for Rating	Runs
	Purge Key Figure Data Outside Planning Area Horizon	Daily	Job was not scheduled during period analyzed	0
	Purge Change History Data	Daily	Job was not scheduled during period analyzed	0
	Purge Data Import Batches	Daily	Job was not scheduled during period analyzed	0
	Purge Processes	Daily	Job was not scheduled during period analyzed	0
	Purge Non-Conforming Data	Ad Hoc	Job was not scheduled during period analyzed	0
	Purge Key Figure Data	Ad Hoc	Job was not scheduled during period analyzed	0
	Purge Scenarios	Ad Hoc	Job was not scheduled during period analyzed	0

Several purge jobs are not scheduled to run regularly as recommended by SAP. This can lead to performance issues or memory allocation issues.

Recommendation: Consider the available options for Data Lifecycle Management. Information on these options along with purge job templates can be found on the Data Lifecycle Management page on SAP Help Portal.

How to get support – Please open an incident on these components

Issues with the Fiori apps in SAP ONE Support Launchpad:

SV-SCS-EWA General issues and missing systems

SV-SCS-EWA-SF Solution Finder

Questions regarding the recommendations and report content:

SV-SMG-SER-EWA

Contact your company's Super Admin to get authorization "Service Reports & Feedback" for your S-User and customer number(s).

How to read and work with the service findings





- Requires an S-User in SAP ONE Support Launchpad or SAP for Me
- Super admin of your company has to assign "Service Reports and Feedback" to S-User for respective customer number(s)
- New report is available every Monday automatically 3.
- Download report or use online Reports app
- Use Solution Finder to work with alerts
- Subscribe to email notifications

Alert Category:

SAP Public Cloud → SAP Integrated Business Planning (7) ×			
SAP Public Cloud			
\Box SAP Public Cloud → SAP Ariba (1)			
✓ SAP Public Cloud → SAP Integrated Business Planning (7)			

Polls

Which cloud product would you like to be covered by SAP EarlyWatch Alert next?

Polls

Would you like to consume SAP EarlyWatch Alert Statistics in SAP Analytics Cloud Dashboards developed and run by SAP?

SAP EarlyWatch Alert Workspace

The SAP EarlyWatch Alert Workspace in SAP ONE Support Launchpad offers the new possibility to get informed automatically by email on critical findings in your SAP system landscape.

Notify

It offers personalized alerts which will inform you about new very critical findings in general and predictive alerts for the SAP HANA which provides an early warning on important optimization potential.

Customize

You can specify all systems or only a selection of systems of your choice.

Select

There are additional checks available in the SAP EarlyWatch Alert Workspace compared to the classical EarlyWatch Alert report.

- Forecast for SAP HANA 2 Billion Limit
- Forecast for SAP HANA Memory Consumption
- Forecast for SAP HANA Memory Footprint of Column und Row Store
- Forecast for Number Ranges
- Notifications on Prediction Results and new very critical alerts by email
- Time travel on chapter level in eReader
- Aggregation per system landscape for topic alerts

Enhanced



Watch the video for more information on **how to subscribe**:

https://video.sap.com/media/t/1_9mb5bgwq



Inform your basis and database team and encourage them to subscribe today

Thank you!

Susanne Glänzer

Data Science, Automation and Technology, IDG

SAP SE

Susanne.glaenzer@sap.com



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