

# How to successfully manage FUE consumption

Webinar  
March 26<sup>th</sup>, 2025  
Presented by: Sharon Ryan, Ravi Yadav



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Our goal is to **create happy SAP customers**. We do this by simplifying and translating your SAP licensing requirements.

# How to Get in Touch

## Licensing Queries



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# Agenda

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Key differences between  
ECC and SAP S/4HANA  
user license types

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FUE concept in RISE  
with SAP

3



Strategies for optimizing  
FUE deployment

4



Best practices  
for FUE management



1



Key differences between ECC and SAP  
S/4HANA user license types

# Key differences between ECC and SAP S/4HANA user license types

## SAP ECC

### Earlier definitions

...is a Named User who performs ...

### Later definitions

...is a Named User solely authorized to access / perform / use ...

<1999	SAP R/3
2000	mySAP.com
2001 – 2005	mySAP Individual Solutions SAP Solution Suite SAP Business Suite
2006+	SAP Application

Business roles based on license definitions.  
1 Named User = 1 Individual

## SAP S/4HANA

### Definition

S/4HANA Enterprise Management for <...>  
User is allowed by the number of individuals included in the Licensed Level who are authorized to perform ...

SAP S/4HANA Enterprise Management

Defined authorisation objects, fields and values.  
1 Named User = 1 Individual

## SAP S/4HANA Cloud

### SDG

Authorized Users (as defined in the GTC) are permitted to use the following solution capabilities of ... S/4HANA Cloud, ... edition

### GTC

“Authorized User” means any individual to whom Customer grants access authorization to use the Cloud Service...

SAP S/4HANA Cloud Essentials

SAP S/4HANA Cloud Extended

RISE with SAP

GROW with SAP

Defined authorisation objects, fields and values.  
1 FUE = 0.5 / 1 / 5 / 30 Individuals

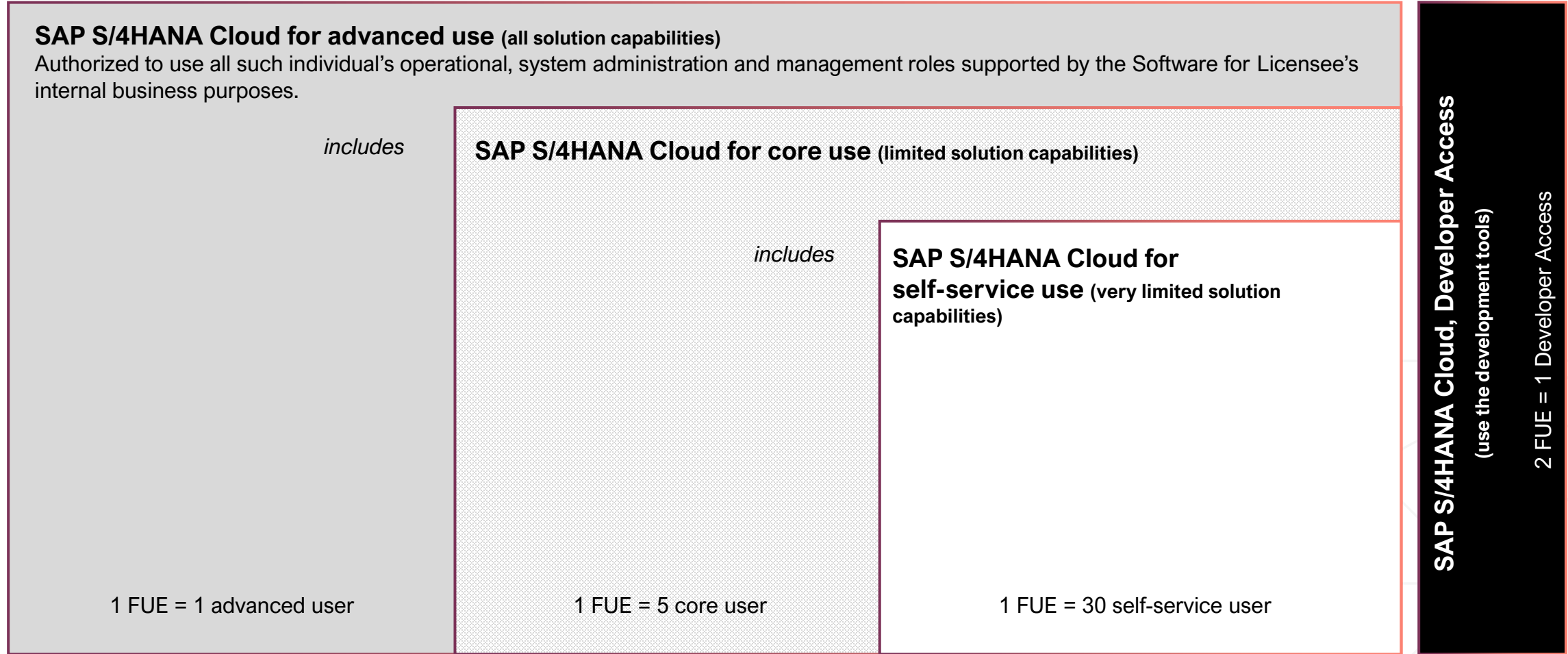


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FUE concept in RISE with SAP

# FUE concept in RISE with SAP - Overview





# FUE concept in RISE with SAP - Functionality

SAP S/4HANA Cloud for advanced use	SAPS/4HANA Cloud for core use			SAP S/4HANA Cloud for self-service use
<p>Use is allowed by the number of individuals included in the Licensed level who are authorized to use all of such individual's operational, system administration and management roles supported by the Software for Customer's internal business purposes.</p>	<p>Use is allowed by the number of individuals included in the Licensed Level who are employees of Customer authorized to use the following Solution Capabilities supported by the Software:</p>			
<p><b>All Solution Capabilities</b> offered by the Software, within the Enterprise Management license</p>	<p>Use is allowed by the number of individuals who are employees of Customer`s Business Partners authorized to perform any role supported by the Software</p>			
<p><b>Please note:</b> Authorized Users (as defined in the GTC) are permitted to use the following solution capabilities of RISE with SAP. The solutions listed in the SDG (Service Description Guide) are always decisive.</p>	<p><b>Supply Chain</b> Goods Movement Inventory Analytics &amp; Control Returnable Packaging Logistics Warehouse Management Delivery Management Transportation Management Available to Promise Physical Inventory Handling Unit Management Batch Management Serial Number Management</p>	<p><b>Asset Management</b> Maintenance Planning Maintenance Execution Maintenance Demand Processing</p> <p><b>Enterprise Technology</b> Master Data Maintenance</p> <p><b>R&amp;D</b> Project Financial Control Project Logistics Control Variant Configuration Product Development Foundation</p>	<p><b>Sales</b> Sales Quotation Management Sales Contract Management Sales Order Management and Processing Price Management Incentive and Commission Management Opportunity Management Sales Lead Management Activity Management Account and Contact Management Sales Master Data Management Sales Billing Solution Billing Sales Rebates Management Claims, Returns and Refund Management Sales Monitoring and Analytics</p>	<p><b>Supply Chain Management</b> Goods Movement Warehouse Management Delivery Management Available to Promise Transportation Management Physical Inventory Handling Unit Management Batch Management Serial Number Management</p>
	<p><b>Manufacturing</b> Material Requirements Planning External Processing Production Execution Subcontracting Just-in-time Processing Kanban Production Control Repetitive Manufacturing Quality Planning Quality Improvement Quality Inspection Production BOM Management Recipe/Routing Management Manufacturing Analytics Capacity Planning</p>	<p><b>Service</b> Warranty Management Service Request Management Service Order Management Service Fulfilment Service Billing &amp; Settlement Customer Engagement Packaged Service Offerings Business Solution Contract Management Service Contract Management Service Parts Fulfillment Service Monitoring and Analytics Service and Maintenance Plan Technical Assets Structures and History In-House Repair</p>	<p><b>Human Resources</b> Organizational Management Time Sheet</p> <p><b>Sourcing and Procurement</b> Self-Service Requisitioning</p> <p><b>Travel and Expense Management</b> Corporate Card Management Expense Reporting Reimbursement Management Cash Advance Management Travel and Expense Analytics Travel Booking Management</p>	<p><b>Asset Management</b> Maintenance Execution Maintenance Demand Processing</p>
			<p><b>Display Use Rights</b></p> <p><b>Approval Use Rights</b></p>	<p><b>Human Resources</b> Organizational Management Time Sheet</p> <p><b>Sourcing and Procurement</b> Self-Service Requisitioning</p> <p><b>Travel and Expense Management</b> Corporate Card Management Expense Reporting Reimbursement Management Cash Advance Management Travel and Expense Analytics Travel Booking Management</p> <p><b>Display Use Rights</b></p> <p><b>Approval Use Rights</b></p>



# FUE concept in RISE with SAP – On-Premises vs. Cloud

**1 Named User = 1 individual, BUT 1 FUE may not= 1 individual**

## SAP S/4HANA On-Premises

User Type	Weighting	No. of Individuals	No. of Named Users
SAP S/4HANA, Developer Access	1	20	20
SAP S/4HANA Enterprise Management for Professional use	1	345	345
SAP S/4HANA Enterprise Management for Functional use	1	180	180
SAP S/4HANA Enterprise Management for Productivity use	1	490	490
<b>Total</b>		<b>1,035</b>	<b>1,035</b>

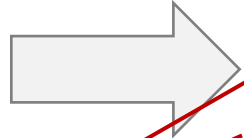
## SAP S/4HANA Cloud

User Type	Weighting	No. of Individuals	No. of FUEs
SAP S/4HANA Cloud, Developer Access	0.5	20	40
SAP S/4HANA Cloud for advanced use	1	345	345
SAP S/4HANA Cloud for core use	5	180	36
SAP S/4HANA Cloud for self-service use	30	490	16.3
<b>Total</b>		<b>1,035</b>	<b>438</b>



# FUE concept in RISE with SAP – Calculating FUEs

User Type	Weighting	No. of Individuals	No. of FUEs
SAP S/4HANA Cloud, Developer Access	0.5	20	40
SAP S/4HANA Cloud for advanced use	1	345	345
SAP S/4HANA Cloud for core use	5	180	36
SAP S/4HANA Cloud for self-service use	30	490	16.3
<b>Total</b>		<b>1,035</b>	<b>438</b>



FUE Tier	T-Shirt Size
Up to 135	XXS
Up to 550	XS
Up to 1,000	S
Up to 2,000	M
Up to 4,000	L
Up to 6,000	XL
Above 6,000	XXL



### High-level Steps

1. Determine quantity of user types required (watch out for S4 not being 1:1 with ECC Business Suite or Applications!)
2. Map to FUEs
3. Map to t-shirt size
4. Cross-check t-shirt size with (i) infrastructure requirements (ii) unit price to check if more cost-effective to move up a tier

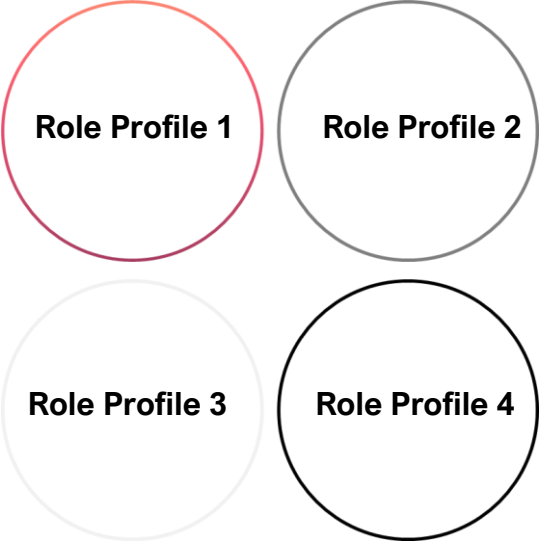
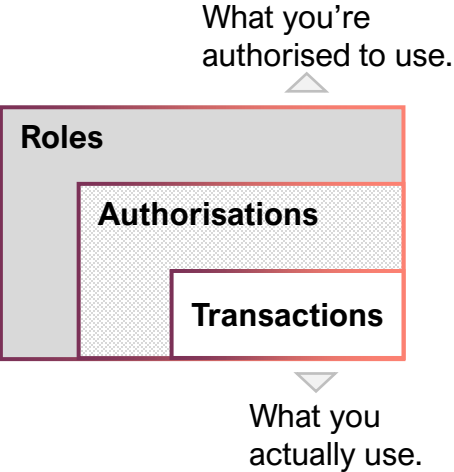


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Strategies for optimizing FUE deployment

# Strategies for optimizing FUE deployment – authorized to access vs. actual usage



Close the gap between authorised usage and actual usage to avoid inflated quantities.



# Strategies for optimizing FUE deployment – authorized to access vs. actual usage



Perform a license measurement exercise to determine actual usage.

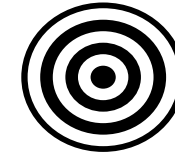


Complete pre-requisites to ensure accurate capture of private cloud user metering.



Run the following SAP reports to understand which Roles and are impacting the classification:

- Production Systems – SAP Note: **3113382**
- Development Systems – SAP Note: **3333812**



Align Solution Capabilities Usage with FSD. Adjust roles & authorizations to close the gap with usage.



# Strategies for optimizing FUE deployment – align FUEs with infrastructure requirements

Example: RISE with SAP S/4HANA Cloud, private edition, premium

Size (≤ FUEs)	Development		QAS		Production	
XXS (≤ 135)	256GiB	1x 32GiB			256GiB 256GB	1x 64GiB
XS (≤ 550)			256GiB 256GB	1x 64GiB	256GiB 256GB	
S (≤ 1,000)			512GiB 512GB		512GiB 512GB	
M (≤ 2,000)			960GiB 960GB	2x 64GiB	960GiB 960GB	
L (≤ 4,000)	512GiB	2x 64GiB	1,922GiB 1,922GB	2x 128GiB	1,922GiB 1,922GB	2x 128GiB
XL (≤ 6,000)			2,944GiB 2,944GB	4x 128GiB	2,944GiB 2,944GB	4x 128GiB
XXL (≥ 6,000)			5,700GiB 5,700GB		5,700GiB 5,700GB	

## Simple Examples:

- **Customer A** is at Size XXS with 130 FUEs and requires 100 GiB more. In this example, Customer A should invest in a memory extension because even if they increase FUE count to 550, the next t-shirt size up has identical memory and storage parameters.
- **Customer B** is at Size M with 1,950 FUEs and requires 100 GiB more. In this example, Customer B should move to Size L with 2,001 FUEs because the memory doubles.

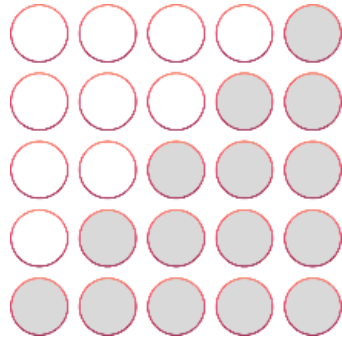
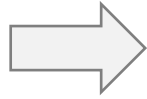
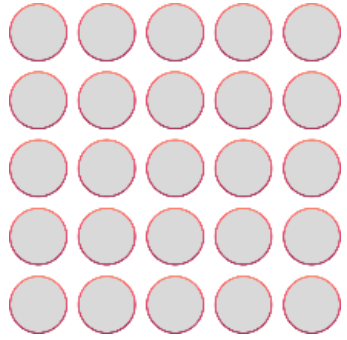
### Legend:



HANA DB Memory  
HANA DB Storage  
App Server Storage

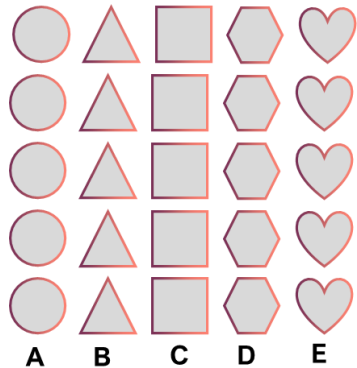
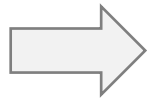
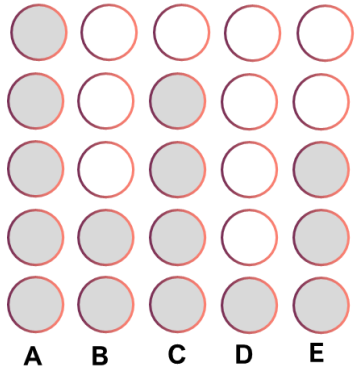


# Strategies for optimizing FUE deployment – maximize contractual concessions



## Ramp-Up

- Do not subscribe to full quantity upfront. Think about what you will use (i) from contract signature to go-live and (ii) on go-live itself.



## Remix

- If unexpected additional demand occurs, Xactitud recommends checking your license agreement for any remix /exchange rights that could be exercised.
- Negotiate remix rights and allocate sufficient time to maximise them.



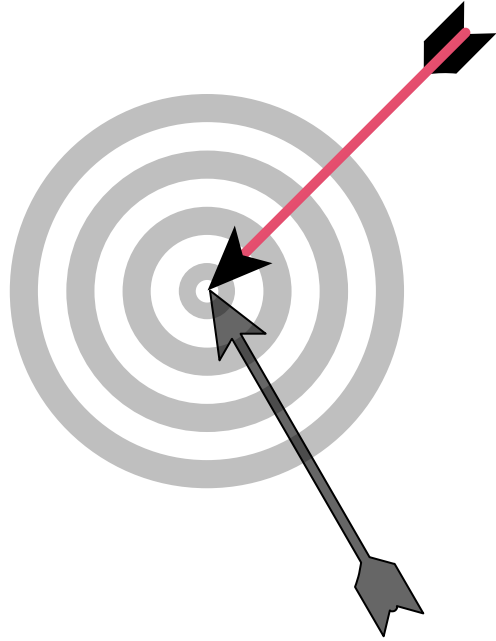


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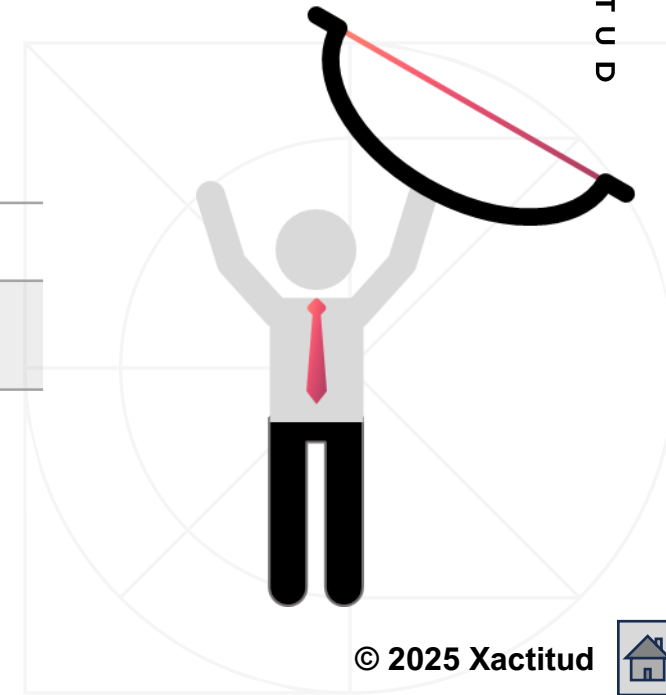
Best practices for FUE management

# Best practices for FUE management

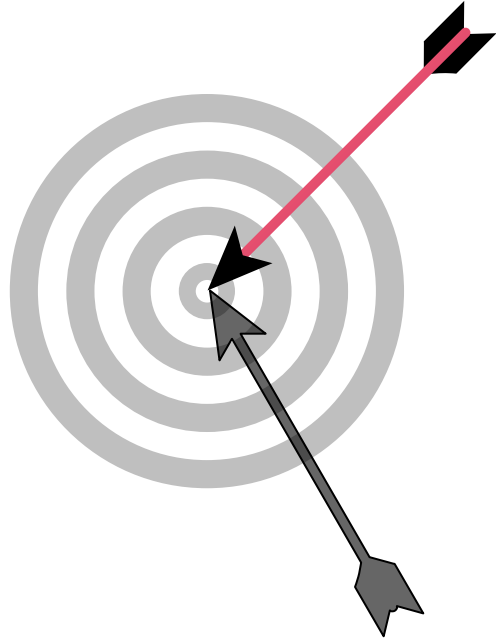


**Measure existing licenses and expire any users no longer requiring access.**

Why	Benefit	Impact of not doing so
Actual usage may be less than anticipated.	Avoids unnecessary shelfware of cloud services.	Over-spend.

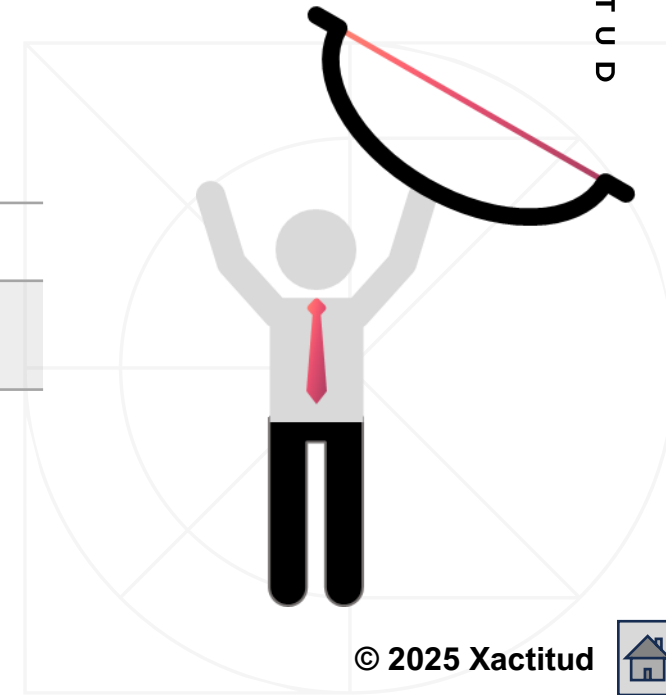


# Best practices for FUE management

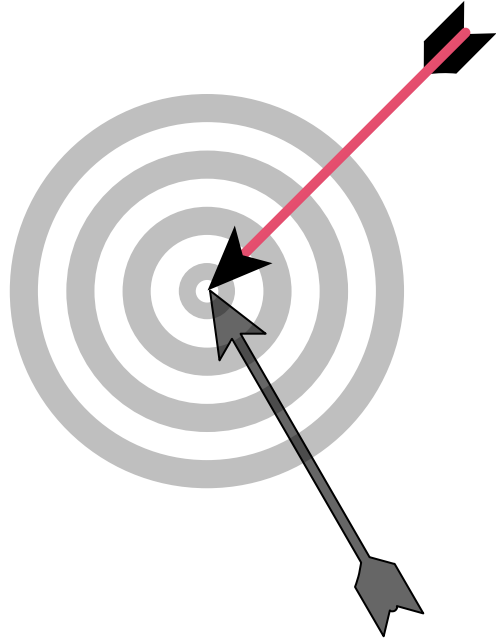


**Be aware of organisational changes that may impact FUE demand.**

Why	Benefit	Impact of not doing so
Ensures FUEs are procured at optimal tier.	Cloud consumption costs are right-sized.	No unforeseen expenditure or spike in unused subscription.

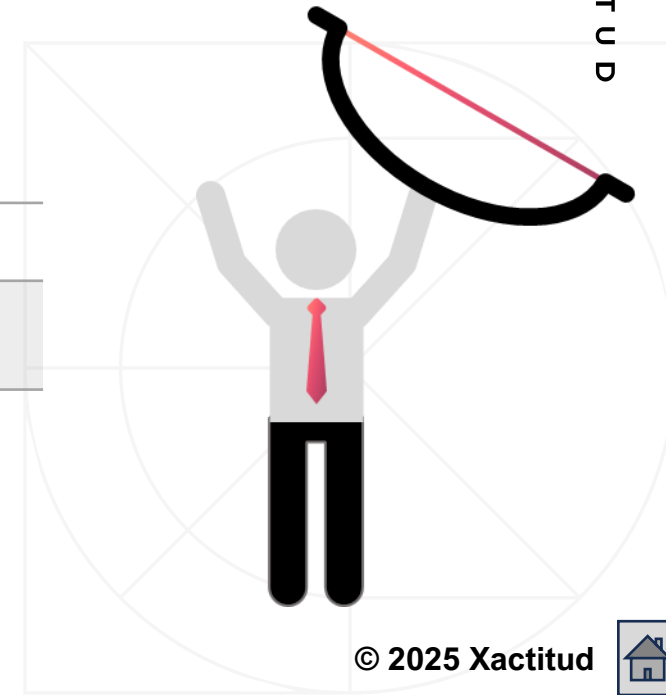


# Best practices for FUE management

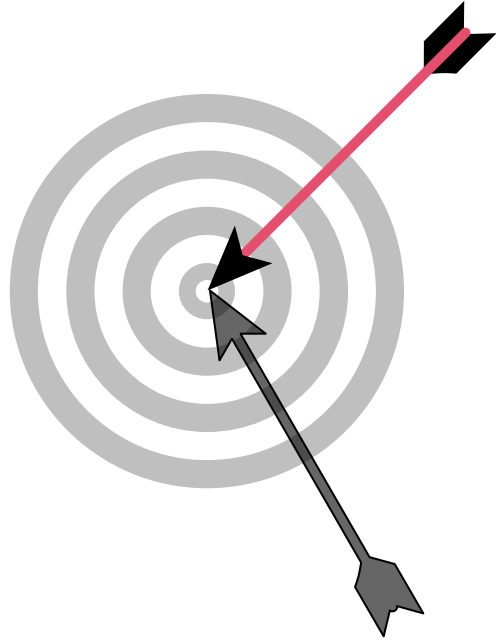


**Ensure your SAP systems are at a release compatible for private metering.**

<b>Why</b>	<b>Benefit</b>	<b>Impact of not doing so</b>
FUE consumption may not be accurately captured.	True representation of usage.	FUE count may be unnecessarily inflated.



# Best practices for FUE management



**Run SAP Note 3113382**

## Why

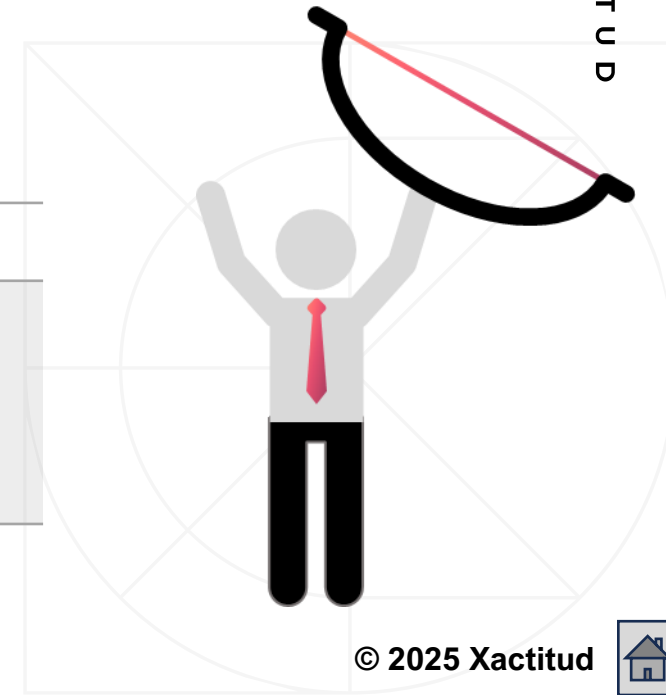
Report SLIM\_USER\_CLF\_HELP will help you understand the roles and authorizations driving the classifications in your Core Production Systems.

## Benefit

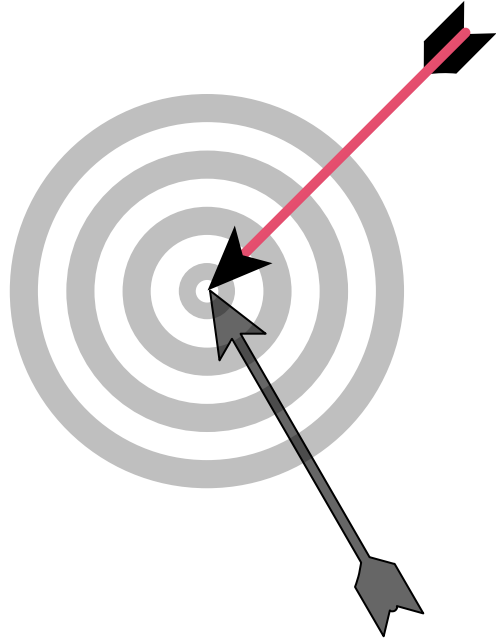
Performing before migrating to RISE gives an opportunity to address any roles and authorizations unnecessarily inflating license counts.

## Impact of not doing so

Excessive count of Advanced Users that could suffice with a Core or Self-Service license type.



# Best practices for FUE management



**Run SAP Note 3333812**

## Why

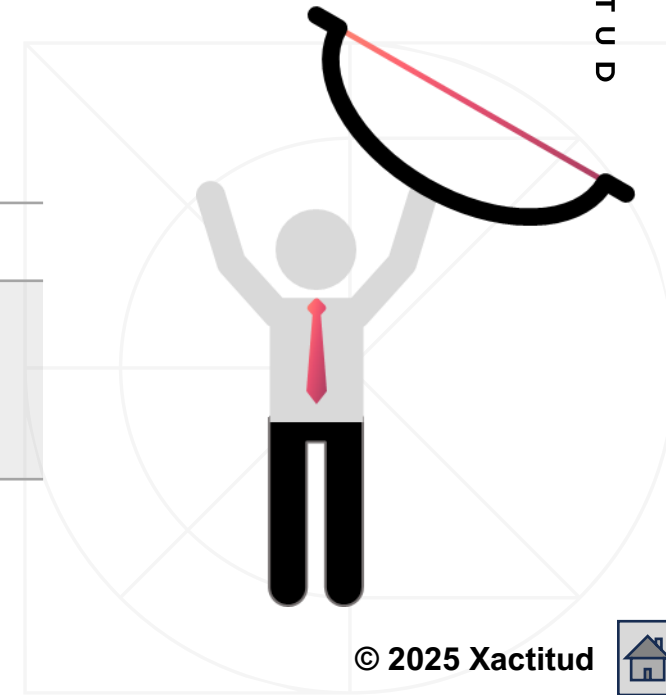
Report SLIM\_DEV\_CLF\_HELP will help you verify users identified as developer users.

## Benefit

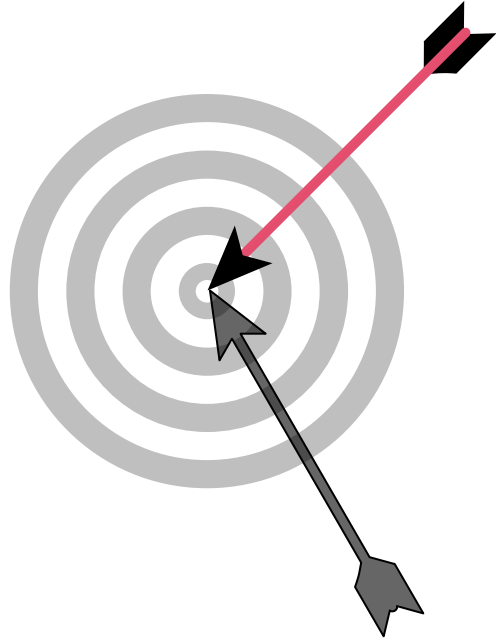
Visibility on individuals classified as Developers but not using development tools – avoids overspend.

## Impact of not doing so

Users performing only system administration tasks may be incorrectly classified as Developers.

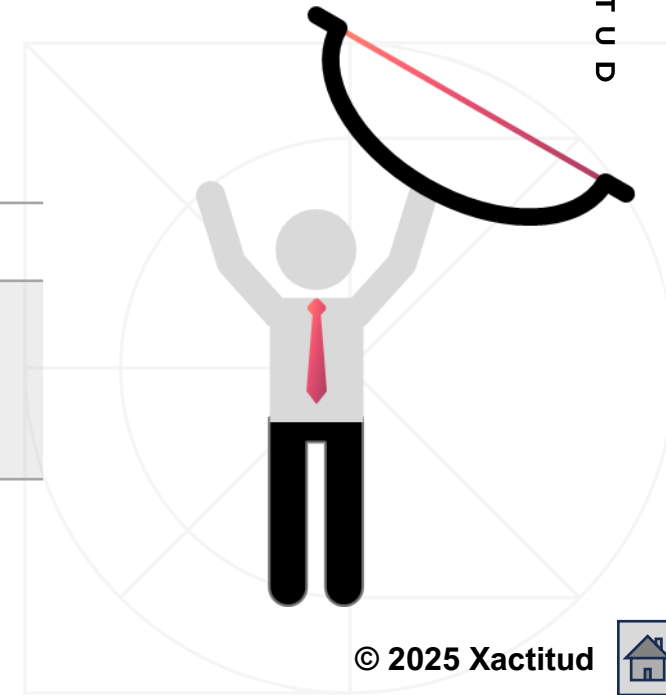


# Best practices for FUE management

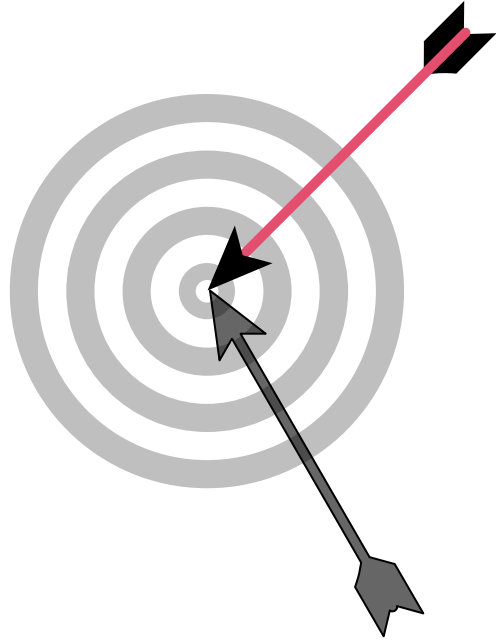


**Align actual usage with SDG and FSD descriptions.**

<b>Why</b>	<b>Benefit</b>	<b>Impact of not doing so</b>
S4HC differs substantially from ECC in terms of permissions and scope.	Ensures any redesigned roles and authorizations are based on the contractual RISE license definitions.	Under-spend or over-spend.

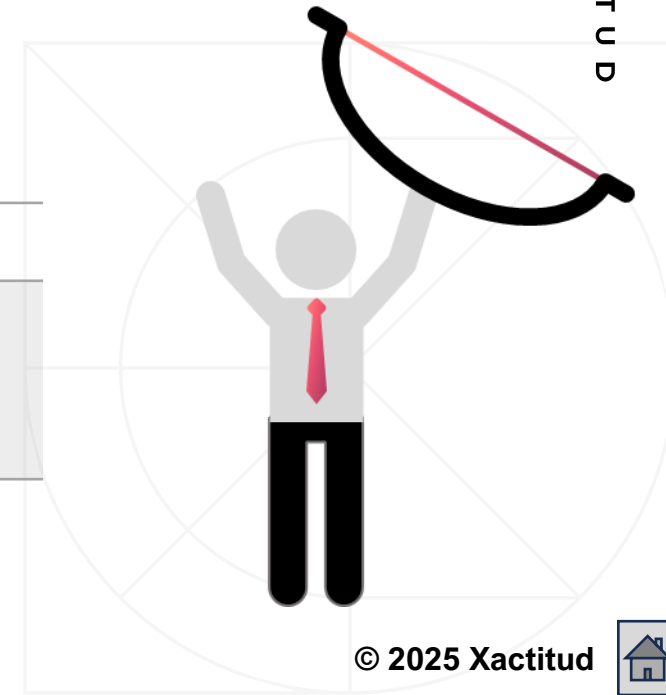


# Best practices for FUE management



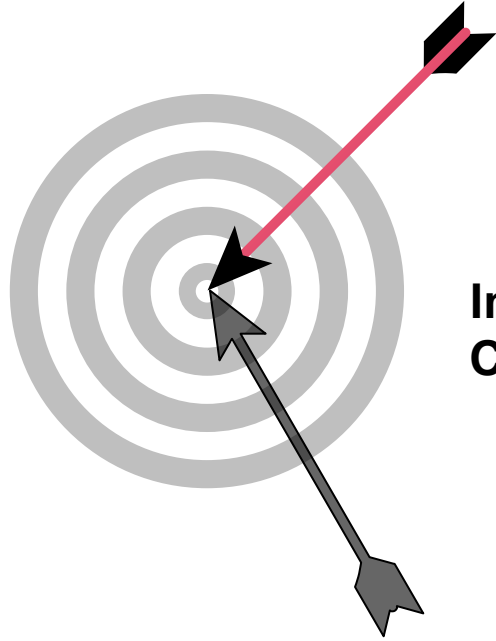
**Categorise the SAP systems in SAP for Me.**

Why	Benefit	Impact of not doing so
Not all S4HC engines require a named user license to access the functionality.	Segregating systems into those requiring users vs. those that don't will reduce license consumption.	FUE count may be unnecessarily inflated.



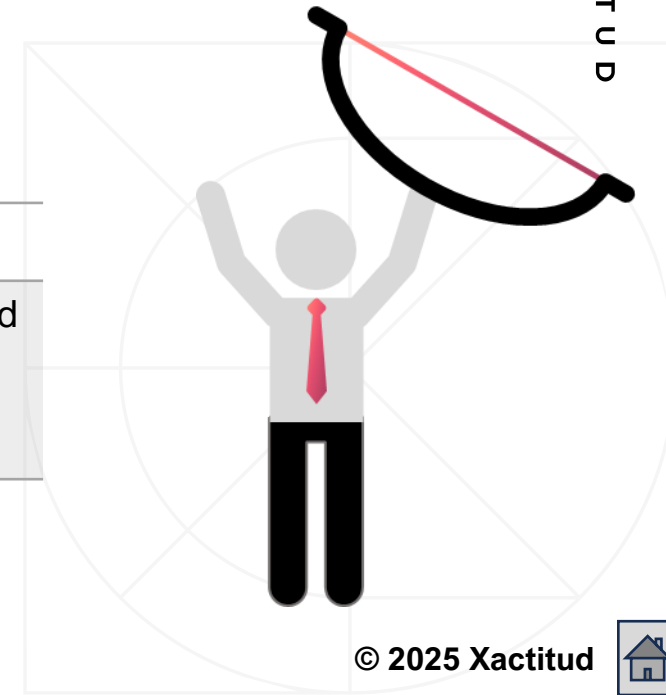


# Best practices for FUE management



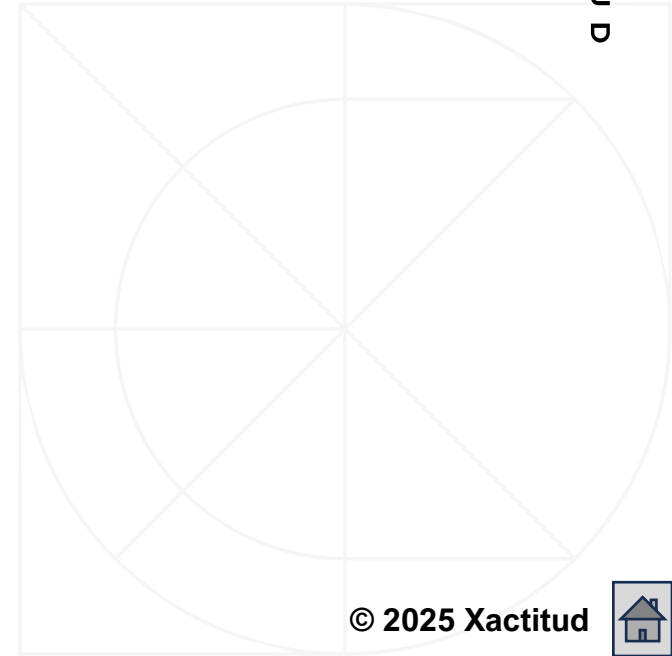
**Implement correct price list for SAP S/4HANA Private Cloud Edition and ensure correct classification.**

Why	Benefit	Impact of not doing so
Default classifications will be counted based on the roles and authorizations via Private Metering.	Accuracy of Private Metering accurately significantly increased.	Users manually classified based on other price list are considered based on the assigned authorization objects.



# Q&A

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**THANK YOU!**

