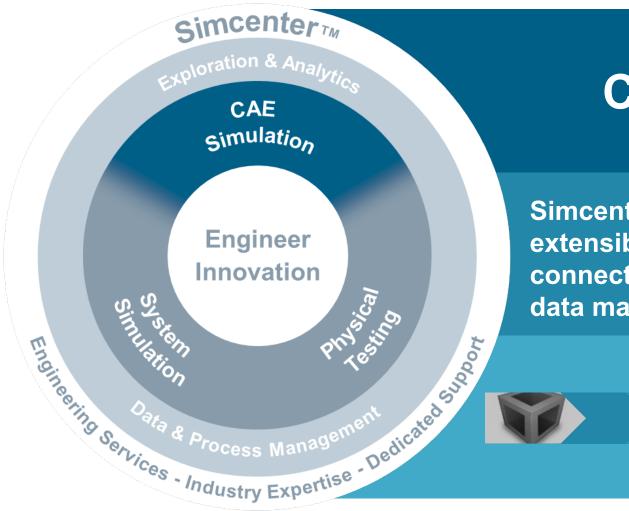


Simcenter 3D Value-Based Licensing for Simcenter 2021.2



Simcenter – Simulation and Test Solutions



CAE Simulation

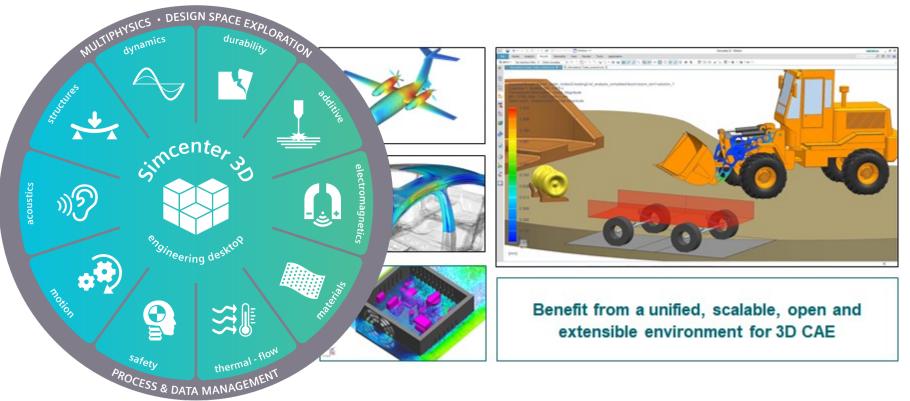
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Simcenter[™] 3D is a unified, scalable, open and extensible environment for 3D CAE with connections to design, 1D simulation, test, and data management.

Simcenter 3D Value Based Licensing – Motivation

Simcenter 3D provides multidiscipline solutions in a single common user environment.

Value-Based (or tokens) licensing provides a costeffective way for users to access the full range of Simcenter 3D capabilities.





What is Value Based Licensing?

Value Based Licensing (VBL) is an additional licensing method accessed through the token packs.

Operates by the same Flex license server as used for module-based Simcenter 3D licenses

• Users can have mix of token license and module-based licenses

Requires "Base Application" to enable the use of tokens.

- Tokens apply only for additional Product Modules configured on top of "Base Application" which is a modulebased "Desktop" license (perpetual or lease/recurring)
- Base Application can be any of the following
 - SC12500 Simcenter Engineering Desktop
 - SC12510 Simcenter Engineering Desktop Add-On
 - SC13500 Simcenter Structures
 - SC13510 Simcenter Structures Add-On





Why Value Based Licensing?

Provides flexibility to customers

- Allows access to various applications without having to buy specific products
- Accommodates changes in customer capability usage over time
- Customers can try-out new capabilities without having to purchase a license
- Cost efficient licensing model for customers that need access to variety of capabilities





How Value Based Licensing Works?

Users always need to run Base Application that uses module-based licensing.

Additional Simcenter 3D applications can be run using:

- Module-based licensing or
- Value-Based (token) licensing

Licenses for additional Simcenter 3D applications are checked-out as follows:

- First a module-based license is checked-out if available. If not available ...
- Tokens are checked out. If not available ...
- License fault message

When tokens are used ...

- · Each application consumes a defined number of tokens
- The same number of tokens are checked-in when application ends
- Total number of applications that can be checked out on top of the Base Application is limited by the number of tokens that the user has available.





Simcenter 3D Products – Value Based Licensing Products

Simcenter 3D Valued Based Products ... started with Simcenter 11

Value Based Licensing Packs

SC10100 Simcenter Value Based License 100 Pack

- Contains 100 tokens
- Requires at least one Base Product

SC10050 Simcenter Value Based License 50 Pack

- Requires prerequisite of SC10100
- Contains 50 tokens

These products can be obtained on perpetual, subscription, or rental basis





Token Enabled Products Most all of Simcenter 3D and Simcenter Nastran

Simcenter 3D Environments

• MSC Nastran, Ansys, Abaqus, LS-Dyna, Samcef, Simcenter BEM

Simcenter 3D Thermal/Flow/Electro-magnetics

- Thermal-Multiphysics, DMP, SST, ESC
- MAGNET, MAGNET Thermal

Simcenter 3D Modeling Add-Ons

• Acoustic Meshing, Flow Modeling, Laminate Composites

Simcenter3D Solutions

 BEM Acoustics, Durability, Response Dynamics, Correlation, Model Update, Margin-of-Safety

Simcenter 3D Motion and Flexible Pipe

Motion, Flexible Pipe

Simcenter 3D Materials Engineering

Structure Solvers

Simcenter Nastran, Simcenter Samcef

Most Simcenter 3D and Simcenter Nastran products can use token licensing

88 Total Applications



Simcenter 3D Token Supported Applications

Product ID	Product Name	Product ID	Product Name	Product ID	Product Name	Product ID	Product Name
Pre/Post		Thermal-Multi	physics	Nastran		Motion	
SC30536	Simcenter 3D Environment for Simcenter Samcef	SC30780	Simcenter 3D Thermal-Multiphysics	NXN001	Simcenter Nastran Basic	SC30571	Simcenter 3D Motion Modeling
SC30523	Simcenter 3D Environment for LS-Dyna	SC30537	Simcenter 3D Thermal/Flow DMP	NXN002	Simcenter Nastran Advanced Bundle	SC30572	Simcenter 3D Motion Solver
SC30549	Simcenter 3D Environment for MSC Nastran	Thermal & Flow	w Verticals		Simcenter Nastran Dynamic Response	SC30581	Simcenter 3D Motion Systems and Controls
SC30550	Simcenter 3D Environment for Ansys	SC30517	Simcenter 3D Space Systems Thermal		Simcenter Nastran Superelement	SC30582	Simcenter 3D Motion Flexible Body
SC30551	Simcenter 3D Environment for ABAQUS	SC30781	Simcenter 3D Electronic Systems Cooling		Simcenter Nastran DMAP	SC30585	Simcenter 3D Motion Standard Tire
SC30570	Simcenter 3D BEM Acoustics Environment	Acoustics			Simcenter Nastran Aero- Elastic	SC30590	Simcenter 3D Motion Drivetrain
SC30522	Simcenter 3D Laminate Composites	SC30580	Simcenter 3D BEM Acoustics Solver		Simcenter Nastran RDMODES	SC30579	Simcenter 3D Motion TWR
SC30560	Simcenter 3D Advanced Fluid Modeling	SC30593	Simcenter 3D ATV		Simcenter Nastran Reduced Representations	SC30583	Simcenter 3D Motion Flexible Body Advanced
SC30620	Simcenter 3D Meshing for Acoustics	SC30594	Simcenter 3D Acoustics HPC	NXN004	Simcenter Nastran Dynamic Response	SC30599	Simcenter 3D Motion Driving Dynamics
SC30640	Simcenter 3D Acoustics Auralization	SC30595	Simcenter 3D Aero-Vibro-Acoustics	NXN010	Simcenter Nastran DMP	SC30575	Simcenter 3D Motion C-code export
SC30504	Simcenter 3D Rotor Modeling	Dynamics		NXN015	Simcenter Nastran Advanced Acoustics	SC30574	Simcenter 3D Motion Real-Time Desktop Solver
SC30604	Simcenter 3D Environment for Ray Acoustics	SC30521	Simcenter 3D Response Dynamics	NXN016	Simcenter Nastran Topology Optimization	Flexible Pipe	
SC30710	Simcenter 3D Low Frequency EM	SC30596	Simcenter 3D Noise & Vibration Modeling	NXN017	Simcenter Nastran Acoustics Trim	SC40510	Simcenter 3D Flexible Pipe Standard Beam
Design Space E	xploration	SC30501	Simcenter 3D Load Identification	NXN030	Simcenter Nastran Multistep Nonlinear	SC40570	Simcenter 3D Flexible Pipe Standard Shell
SC30610	Simcenter 3D Design Space Exploration	Correlation		NXN040	Simcenter Nastran Rotor	SC40500	Simcenter 3D Flexible Pipe Standard Beam + Shell
Additive Manu	facturing	SC30527	Simcenter 3D FE Model Correlation	Samcef		SC40520	Simcenter 3D Flexible Pipe Linear Dynamic
SC40110	Simcenter 3D AM Solver Add-On	SC30528	Simcenter 3D FE Model Update	SCSCF0151	Simcenter Samcef Bacon	SC40530	Simcenter 3D Flexible Pipe Non-Linear Dynamic
		Durability		SCSCF0152	Simcenter Samcef Asef Solver	SC40540	Simcenter 3D Flexible Pipe Optimization
		SC30531	Simcenter 3D Advanced Durability	SCSCF0156	Simcenter Samcef Stabi Solver	SC40550	Simcenter 3D Flexible Pipe Advanced Beam
		SC30532	Simcenter 3D Specialist Durability Modelling	SCSCF0154	Simcenter Samcef Dynam Solver	SC40580	Simcenter 3D Flexible Pipe EC&WH Option
		SC30533	Simcenter 3D Specialist Durability for Connections	SCSCF0155	Simcenter Samcef Repdyn Solver	SC40590	Simcenter 3D Flexible Pipe Simulation for EC&WH
		SC30540	Simcenter 3D Specialist Durability Solver	SCSCF0158	Simcenter Samcef Spectral Solver	Materials Engin	neering
		SC30541	Simcenter 3D Specialist Durability Composite Fatigue	SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver	SC40200	Simcenter 3D Materials Engineering Standard
		Aerostructures		SCMEC0191	Simcenter Samcef Mecano Thermal Solver	SC40201	Simcenter 3D Materials Engineering Advanced
		SC30602	Simcenter 3D Margin of Safety	SCSCF1152	Simcenter Samcef Asef Parallel Solver	MLM1000	Multimech
				SCSCF1154	Simcenter Samcef Dynam Parallel Solver	MLM2000	Multimech HPC Add-on
				SCSCF1156	Simcenter Samcef Stabi Parallel Solver	MLM1002	Multimech for Ansys
				SCMEC1160	Simcenter Samcef Mecano Parallel Solver	MLM1003	Multimech for Abaqus

SCMEC0111

Simcenter Samcef Mecano Supervisor



Customer Usage Example Scenario: Medium # Users, Many Applications

Aerospace Customer

 Has 12 licenses of <u>Simcenter</u> <u>Engineering Desktop</u> or <u>Simcenter</u> <u>Structures</u>
 Has varying need for add-ons

Each may have the the need to run Simcenter 3D Add-on Products • Simcenter Nastran Basic

Simcenter Nastran Dynamics

Simcenter Nastran Multistep Nonlinear

Space System Thermal

• Electronic Systems Cooling

Response Simulation

Laminate Composites

Adv Fluid Modeling

Are tokens or individual licenses more cost effective?

Cı	ustomer Usage - for a typical week	Monday	Tuesday	Wednesday	Thursday-Friday	Total #	Total #
ID	Product Name	# Licenses	# Licenses	# Licenses	# Licenses	Licenses Needed	Tokens Needed
NXN001	Simcenter Nastran Basic	4	1	4	4	4	
NXN004	Simcenter Nastran Dynamic Response	0	1	2	4	4	
NXN030	Simcenter Nastran Multistep Nonlinear	4	0	0	0	4	
SC30517	Simcenter 3D Space Systems Thermal	0	2	0	1	2	
SC30519	Simcenter 3D Electronic Systems Cooling	0	2	0	1	2	
SC30521	Simcenter 3D Response Dynamics	0	0	2	0	2	
SC30522	Simcenter 3D Laminate Composites	0	2	2	0	2	
SC30560	Simcenter 3D Advanced Fluid Modeling	0	1	1	1	1	
	·					21	700

Cost Ratio Tokens/Modules= 60%

Analysis:

8 Applications used throughout the week

Module-based Licensing

· 21 separate licenses would be required

Value-Based Licensing

700 tokens would cover usage

40% Cost Savings using Value Based Licensing

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Customer Usage Example Scenario: Medium # Users, Few Applications

Aerospace CustomerHas 12 licenses of Simcenter Engineering Desktop

Each may have the need to run Simcenter Nastran Products • Simcenter Nastran Basic • Simcenter Nastran Dynamic Response

Are tokens or individual licenses more cost effective?

C	ustomer Usage - for a typical week	Monday	Tuesday	Wednesday	Thursday-Friday	Total #	Total #
ID	Product Name	# Licenses	# Licenses	# Licenses	# Licenses	Licenses Needed	Tokens Needed
NXN001	Simcenter Nastran Basic	8	6	10	9	10	
NXN004	Simcenter Nastran Dynamic Response	2	3	6	2	6	
						16	1100

Cost Ratio Tokens/Modules= 134%

Analysis:

2 Applications used throughout the week

Module-based Licensing

· 16 separate licenses would be required

Value-Based Licensing

1100 tokens would cover usage

Module-based Licensing is 34% more cost effective

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How to Estimate Number the Number of Tokens You Need

Process:

- 1. Estimate your peak usage requirements number of products that may be in use at one time
- 2. Provide this information to your Account Manager
- 3. They can work up an analysis like in previous slides and tell you whether token licensing is a good fit for your company
- 4. Don't forget to consider what your future requirements may be

Typical Usage Cases:

Next slides show how many tokens are needed to run typical combinations of products

More complicated usages requires analysis described above

Token Scenarios How to understand the tables

Example Token Amounts are labeled at the top for columns

Individual products or combination of products make up the rows

White shading in the token column means that the product has not been considered with the combination of products

Green shading in the token column means that the product or combination of products can be run using the number of tokens for that column

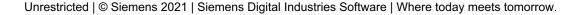
Red shading in the token column means that the product or combination of products cannot be run using the number of tokens for that column

		Include				Accepta	ble Token	Amount (i	in Green)			
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Individual												
NXN001	Simcenter Nastran Basic											
Dynamics Com	bination											
NXN001	Simcenter Nastran Basic											
NXN004	Simcenter Nastran Dynamic Response											
	Simcenter Nastran Superelement	no										
	Simcenter Nastran DMAP	no										
NXN010	Simcenter Nastran DMP	yes										
	Simcenter Nastran RDMODES	yes										
	Simcenter Nastran Reduced Representations	no										
SC30596	Simcenter 3D Noise & Vibration Modeling	no										

For example:

- 100 tokens needed to run Simcenter Nastran Basic
- 250 tokens are needed to run Simcenter Nastran Basic with Dynamics and use the RDMODES solver running in DMP mode.

Not enough tokens Sufficient tokens





Token Scenarios More Product Combinations

There are many possible capability combinations with tokens. The next slides lists typical combinations and the needed amount of tokens.

Your Account Manager can run this Token Calculator to explore other combinations of products

For more combinations use the Token Calculator





Token Scenarios Simcenter 3D Pre-Processing

		Include Acceptable Token Amount (in Green) Add-On 50 100 150 200 250 300 350 Image: Acceptable Token Amount (in Green) 50 100 150 200 250 300 350 Image: Acceptable Token Amount (in Green) 50 100 150 200 250 300 350 Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in Green) Image: Acceptable Token Amount (in								
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual										
SC30536	Simcenter 3D Environment for Samcef									
SC30549	Simcenter 3D Environment for MSC Nastran									
SC30550	Simcenter 3D Environment for Ansys									
SC30551	Simcenter 3D Environment for ABAQUS									
SC30523	Simcenter 3D Environment for LS-Dyna									
SC30570	Simcenter 3D BEM Acoustics Environment									
SC30504	Simcenter 3D Rotor Modeling									
SC30604	Simcenter 3D Environment for Ray Acoustics									
SC30522	Simcenter 3D Laminate Composites									
SC30560	Simcenter 3D Advanced Fluid Modeling									
SC30620	Simcenter 3D Meshing for Acoustics									
SC30710	Simcenter 3D Low Frequency EM									



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Token Scenarios Simcenter 3D Thermal & Flow Verticals

		Include Acceptable Token Amount (in Green)									
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	
Space Systems	Thermal (SST)						2				
SC30517	Simcenter 3D Space Systems Thermal										
SC30537	Simcenter 3D Thermal/Flow DMP	no									
Electronic Syste	ems Cooling (ESC)										
SC30781	Simcenter 3D Electronic Systems Cooling										
	Advanced Thermal Functionality	yes		-							
	Advanced Flow Functionality	no									
SC30560	Simcenter 3D Advanced Fluid Modeling	yes		-		-					
SC30537	Simcenter 3D Thermal/Flow DMP	yes		-							



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Token Scenarios Simcenter 3D MAGNET

		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
ElectroMagnet	ics									
SC30710	Simcenter 3D Low Frequency EM			-						
SC30711	Simcenter MAGNET Solver			-						
SC30712	Simcenter MAGNET Thermal Solver	no								
ElectroMagnet	ics									
SC30710	Simcenter 3D Low Frequency EM				-					
SC30711	Simcenter MAGNET Solver			-	-					
SC30712	Simcenter MAGNET Thermal Solver	yes			-					





Token Scenarios Simcenter 3D Structures with Simcenter Nastran Add-Ons

		Include			Accepta	able Token	Amount (i	in Green)		15
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual										
SC13500	Simcenter 3D Structures (no tokens)									
Dynamics Cor	nbination									
SC13500	Simcenter 3D Structures			-						
NXN004	Simcenter Nastran Dynamic Response									
	Simcenter Nastran Superelement	no								
	Simcenter Nastran DMAP	no								
NXN010	Simcenter Nastran DMP	yes	-							
	Simcenter Nastran RDMODES	yes		-						
	Simcenter Nastran Reduced Representations	no								
SC30593	Simcenter 3D Noise & Vibration Modeling	no								
Acoustics Con	nbination									
SC13500	Simcenter 3D Structures		-		-					
NXN004	Simcenter Nastran Dynamic Response			-	÷					
NXN015	Simcenter Nastran Advanced Acoustics			-	-					
	Simcenter Nastran Superelement	yes		-	-					
	Simcenter Nastran DMAP	yes		-	-					
NXN010	Simcenter Nastran DMP	no								
NXN017	Simcenter Nastran Acoustics Trim	no								
SC30593	Simcenter 3D ATV	no								
	Simcenter Nastran RDMODES	no								
SC30595	Simcenter 3D 3D Aero-Vibro-Acoustics	no								
SC30596	Simcenter 3D Noise & Vibration Modeling	no								

Not enough tokens

Sufficient tokens



Token Scenarios Simcenter 3D Structures with Simcenter Nastran Add-Ons (more combinations)

		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Aero-Elastic C	Combination						2			
SC13500	Simcenter 3D Structures									
×.	Simcenter Nastran Aero- Elastic									
	Simcenter Nastran Superelement	no								
	Simcenter Nastran DMAP	no								
NXN010	Simcenter Nastran DMP	no								
Optimization	Combination									
SC13500	Simcenter 3D Structures									
NXN016	Simcenter Nastran Topology Optimization									
Non-Linear Co	ombination									
SC13500	Simcenter 3D Structures									
NXN030	Simcenter Nastran Multistep Nonlinear									
NXN010	Simcenter Nastran DMP	no								
Rotor Dynami	ics Combination				2					
SC13500	Simcenter 3D Structures									
SC30504	Simcenter 3D Rotor Modeling			-						
NXN040	Simcenter Nastran Rotor			-						
Load Identific	ation Combination									
SC13500	Simcenter 3D Structures and									
SC30501	Simcenter 3D Load Identification									



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Token Scenarios Simcenter Nastran Enterprise

		Include		94 ()		Accepta	ble Token	Amount (in Green)	<i>26</i>		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Individual												
NXN001	Simcenter Nastran Basic											
Dynamics Cor	mbination											
NXN001	Simcenter Nastran Basic		-		-							
NXN004	Simcenter Nastran Dynamic Response				-							
	Simcenter Nastran Superelement	no										
	Simcenter Nastran DMAP	no										
NXN010	Simcenter Nastran DMP	yes	-		-							
	Simcenter Nastran RDMODES	yes			-	. 						
	Simcenter Nastran Reduced Representations	no										
SC30596	Simcenter 3D Noise & Vibration Modeling	no										
Acoustics Con	nbination											
NXN001	Simcenter Nastran Basic			-	-	-						
NXN004	Simcenter Nastran Dynamic Response			-	-	-						
NXN015	Simcenter Nastran Advanced Acoustics			-	-							
	Simcenter Nastran Superelement	no										
	Simcenter Nastran DMAP	no										
NXN010	Simcenter Nastran DMP	no										
NXN017	Simcenter Nastran Acoustics Trim	yes		-	-							
SC30593	Simcenter 3D ATV	no										
	Simcenter Nastran RDMODES	no										
SC30595	Simcenter 3D Aero-Vibro-Acoustics	no										
SC30596	Simcenter 3D Noise & Vibration Modeling	no										



Token Scenarios Simcenter Nastran Enterprise (more combinations)

		Include				Accepta	ble Token	Amount (i	in Green)	2		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Aero-Elastic C	Combination											
NXN001	Simcenter Nastran Basic			-								
	Simcenter Nastran Aero- Elastic											
	Simcenter Nastran Superelement	no										
	Simcenter Nastran DMAP	no										
NXN010	Simcenter Nastran DMP	no										
Optimization	Combination											
NXN001	Simcenter Nastran Basic			-								
NXN016	Simcenter Nastran Topology Optimization			-								
Non-Linear Co	ombination											
NXN001	Simcenter Nastran Basic											
NXN030	Simcenter Nastran Multistep Nonlinear				-							
NXN010	Simcenter Nastran DMP	no										
Rotor Dynami	ics Combination											
NXN001	Simcenter Nastran Basic	8										
NXN040	Simcenter Nastran Rotor (SOL414)				-							
SC30504	Simcenter 3D Rotor Modeling	yes		-	-							



Token Scenarios Simcenter 3D Multiphysics – Thermal and Flow

		Include			Ac	ceptable T	oken Amo	unt (in Gre	en)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450
Thermal Only	Solutions										
SC30780	Simcenter 3D Thermal-Multiphysics										
	Base Thermal Functionality										
	Advanced Thermal Functionality	no									
SC30537	Simcenter 3D Thermal/Flow DMP	no									
Flow Only Sol	utions		3 3								
SC30780	Simcenter 3D Thermal-Multiphysics										
	Base Flow Functionality										
-	Advanced Flow Functionality	no									
SC30560	Simcenter 3D Advanced Fluid Modeling	no									
SC30537	Simcenter 3D Thermal/Flow DMP	yes									
Thermal/Flow	v Coupled Solutions										
SC30780	Simcenter 3D Thermal-Multiphysics			-							
10	Base Thermal Functionality										
~	Base Flow Functionality			-							
	Advanced Thermal Functionality	yes		-	-						
	Advanced Flow Functionality	yes		-	-						
SC30560	Simcenter 3D Advanced Fluid Modeling	yes			-						
SC30537	Simcenter 3D Thermal/Flow DMP	no									



Token Scenarios Simcenter 3D Multiphysics – Thermal and Flow and Structural

		Include			Ac	ceptable T	oken Amo	unt (in Gre	en)	18	
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450
Thermal/Mec	hanical Coupled Solutions										
SC13500	Simcenter 3D Structures			-							
SC30780	Simcenter 3D Thermal-Multiphysics			-							
	Base Thermal Functionality			-							
	Advanced Thermal Functionality										
NXN030	Simcenter Nastran Multistep Nonlinear										
SC30537	Simcenter 3D Thermal/Flow DMP	no									
NXN001	Simcenter Nastran Basic (for Enterprise Solution)	no									
Flow/Mechan	ical Coupled Solutions										
SC13500	Simcenter 3D Structures										
SC30780	Simcenter 3D Thermal-Multiphysics										
	Base Flow Functionality			-							
	Advanced Flow Functionality			-							
NXN030	Simcenter Nastran Multistep Nonlinear			-							
SC30560	Simcenter 3D Advanced Fluid Modeling	no									
SC30537	Simcenter 3D Thermal/Flow DMP	no									
NXN001	Simcenter Nastran Basic (for Enterprise Solution)	no									
Thermal/Mec	hanical/Flow Coupled Solutions										
SC13500	Simcenter 3D Structures										
SC30780	Simcenter 3D Thermal-Multiphysics										
	Base Thermal Functionality										
	Advanced Thermal Functionality			-							
	Base Flow Functionality			-							
	Advanced Flow Functionality										
NXN030	Simcenter Nastran Multistep Nonlinear			-		(-					
SC30560	Simcenter 3D Advanced Fluid Modeling	no									
SC30537	Simcenter 3D Thermal/Flow DMP	no									
NXN001	Simcenter Nastran Basic (for Enterprise Solution)	no									



Not enough tokens Sufficient tokens



Token Scenarios Simcenter Nastran for NVH

		Include		9	Accepta	ble Token	Amount (i	n Green)		A
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Simcenter Na	stran Hybrid NVH Enterprise Combination						2			
NXN001	Simcenter Nastran Basic and				-					
NXN004	Simcenter Nastran Dynamic Response and			-	-					
SC30596	Simcenter 3D Noise & Vibration Modeling with				-					
	Simcenter Nastran Superelement	no								
	Simcenter Nastran DMAP	no								
NXN010	Simcenter Nastran DMP	no								
	Simcenter Nastran RDMODES	no								
	Simcenter Nastran Reduced Representations	yes			-					
Simcenter Na	stran Hybrid NVH Desktop Combination									
SC13500	Simcenter 3D Structures and									
NXN004	Simcenter Nastran Dynamic Response and									
SC30596	Simcenter 3D Noise & Vibration Modeling with									
0	Simcenter Nastran Superelement	no								
	Simcenter Nastran DMAP	no								
NXN010	Simcenter Nastran DMP	no								
	Simcenter Nastran RDMODES	no								
	Simcenter Nastran Reduced Representations	yes		-						



Token Scenarios Simcenter 3D BEM Acoustics

		Include				Accepta	ble Token	Amount (in Green)	1		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Simcenter 3D	BEM Acoustics Combination											
SC30570	Simcenter 3D BEM Acoustics Environment						-					
SC30580	Simcenter 3D BEM Acoustics Solver			-	-		-					
SC30640	Simcenter 3D Acoustics Auralization	no										
SC30501	Simcenter 3D Load Identification	no										
SC30620	Simcenter 3D Meshing for Acoustics	yes					-					
SC30594	Simcenter 3D Acoustics HPC	yes		-	-	-	-					
SC30596	Simcenter 3D Noise & Vibration Modeling	yes		-	-		-					
SC30593	Simcenter 3D ATV	yes		-	-	-	-					
Simcenter 3D	Ray Acoustics Combination											
SC30597	Simcenter 3D Ray Acoustics Solver			-								
SC30604	Simcenter 3D Environment for Ray Acoustics			-								
SC30620	Simcenter 3D Meshing for Acoustics	no										
SC30501	Simcenter 3D Load Identification	no										
SC30640	Simcenter 3D Acoustics Auralization	yes		-								
SC30596	Simcenter 3D Noise & Vibration Modeling	yes		-								
SC30593	Simcenter 3D ATV	yes		-								



Token Scenarios Simcenter Nastran FEM Acoustics

		Include				Accepta	ble Token	Amount (i	n Green)		es	
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Nastran FEM	Acoustics Enterprise Combination											
NXN001	Simcenter Nastran Basic			-		-	-		-			
NXN004	Simcenter Nastran Dynamic Response			-	-	-	-		-			
NXN015	Simcenter Nastran Advanced Acoustics	yes		-	-	-	-		-			
NXN017	Simcenter Nastran Acoustics Trim	yes		-	-	-	-		-			
SC30594	Simcenter 3D Acoustics HPC	yes		-	-	-	-		-			
SC30593	Simcenter 3D ATV	yes		-	-	-	-		-			
SC30595	Simcenter 3D Aero-Vibro-Acoustics	yes		-	-	-	-		-			
	Simcenter Nastran RDMODES	yes		-	-	-	-		-			
	Simcenter Nastran Superelement	no										
~	Simcenter Nastran Reduced Representations	no										
~	Simcenter Nastran DMAP	no										
Nastran FEM	Acoustics Desktop Combination		2									
SC13500	Simcenter 3D Structures		-	-	-	-	-	-	-			
SC30596	Simcenter 3D Noise & Vibration Modeling			-	-	-	-		-			
NXN004	Simcenter Nastran Dynamic Response				-	-	-		-			
SC30640	Simcenter 3D Acoustics Auralization	no										
SC30501	Simcenter 3D Load Identification	no										
NXN015	Simcenter Nastran Advanced Acoustics	yes		-	-	-	-		-			
NXN017	Simcenter Nastran Acoustics Trim	yes			-	-			-			
SC30620	Simcenter 3D Meshing for Acoustics	yes		-	-	-	-		-			
SC30594	Simcenter 3D Acoustics HPC	yes			-	-			-			
SC30593	Simcenter 3D ATV	yes			-	-	-		-			
SC30595	Simcenter 3D Aero-Vibro-Acoustics	yes			-	-	-		-			
	Simcenter Nastran RDMODES	no										
<u>.</u>	Simcenter Nastran Superelement	no										
	Simcenter Nastran Reduced Representations	no										
2	Simcenter Nastran DMAP	no										

Not enough tokens

Sufficient tokens SIEMENS

Token Scenarios Simcenter Samcef Linear

		Include			Accepta	able Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual										
SC30536	Simcenter 3D Environment for Samcef									
SCSCF0151	Simcenter Samcef Bacon									
Linear Statics	Combination			2						
SC30536	Simcenter Environment for Samcef		<u>-</u>							
SCSCF-0152	Asef Solver									
SCSCF-1152	Asef Parallel Solver	no								
Linear Bucklin	g Combination									
SC30536	Simcenter Environment for Samcef									
SCSCF-0156	Stabi Solver									
SCSCF-1156	Stabi Parallel Solver	no								
Linear Modal	Combination									
SC30536	Simcenter Environment for Samcef									
SCSCF-0154	Dynam Solver									
SCSCF-1154	Dynam Parallel Solver	no								
Linear Dynam	ic Response Combination									
SC30536	Simcenter Environment for Samcef									
SCSCF-0155	Repdyn Solver									
Linear Randon	n Response Combination									
SC30536	Simcenter Environment for Samcef									
SCSCF-0158	Spectral Solver									

Not enough tokens Sufficient tokens

SIEMENS



Token Scenarios Simcenter Samcef Non-Linear

		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual										
SC30536	Simcenter 3D Environment for Samcef									
SCSCF0151	Simcenter Samcef Bacon									
Nonlinear Con	nbination									
SC30536	Simcenter 3D Environment for Samcef			-						
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver									
SCMEC1160	Simcenter Samcef Mecano Parallel Solver	no								
Thermal Com	pination						6			
SC30536	Simcenter 3D Environment for Samcef			-						
SCMEC0191	Simcenter Samcef Mecano Thermal Solver			-						
SCMEC1160	Simcenter Samcef Mecano Parallel Solver	no								
Thermal/Mec	hanical Combination									
SC30536	Simcenter 3D Environment for Samcef				-	· · · · · ·				
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver				-	(±				
SCMEC0191	Simcenter Samcef Mecano Thermal Solver			-	-	(4				
SCMEC0111	Simcenter Samcef Mecano Supervisor			-	-					
SCMEC1160	Simcenter Samcef Mecano Parallel Solver	no								



Token Scenarios Simcenter 3D Motion

		Include		9. · · · · · · · · · · · · · · · · · · ·		Accepta	ble Token	Amount (i	in Green)			
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Individual												
SC30571	Simcenter 3D Motion Modeling											
Motion Solution	on Combination											
SC30571	Simcenter 3D Motion Modeling and			-								
SC30572	Simcenter 3D Motion Solver with											
SC30581	Simcenter 3D Motion Systems and Controls	no										
SC30579	Simcenter 3D Motion TWR	no										
SC30582	Simcenter 3D Motion Flexible Body	yes		<u>_</u> .								
SC30583	Simcenter 3D Motion Flexible Body Adv	yes		-								
SC30585	Simcenter 3D Motion Standard Tire	no										
SC30590	Simcenter 3D Motion Drivetrain	no										
SC30575	Simcenter 3D Motion C-code export	no										
SC30574	Simcenter 3D Motion Real-Time Desktop Solver	no										
SC30599	Simcenter 3D Motion Driving Dynamics	no										
Motion Solution	on Combination											
SC30571	Simcenter 3D Motion Modeling and			-								
SC30572	Simcenter 3D Motion Solver with											
SC30581	Simcenter 3D Motion Systems and Controls	yes		-	-							
SC30579	Simcenter 3D Motion TWR	no										
SC30582	Simcenter 3D Motion Flexible Body	no										
SC30583	Simcenter 3D Motion Flexible Body Adv	no										
SC30585	Simcenter 3D Motion Standard Tire	yes	4		-							
SC30590	Simcenter 3D Motion Drivetrain	no										
SC30575	Simcenter 3D Motion C-code export	no										
SC30574	Simcenter 3D Motion Real-Time Desktop Solver	no										
SC30599	Simcenter 3D Motion Driving Dynamics	yes										

Not enough tokens

Sufficient tokens

tokens SIEMENS

Token Scenarios Simcenter 3D Motion (more combinations)

		Include		9		Accepta	able Token	Amount (i	in Green)			
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500
Individual												
SC30571	Simcenter 3D Motion Modeling											
Motion Soluti	on Combination											
SC30571	Simcenter 3D Motion Modeling and			-	-							
SC30572	Simcenter 3D Motion Solver with			-	-							
SC30581	Simcenter 3D Motion Systems and Controls	yes		-	-	-						
SC30579	Simcenter 3D Motion TWR	yes		-	-	-						
SC30582	Simcenter 3D Motion Flexible Body	no										
SC30583	Simcenter 3D Motion Flexible Body Adv	no										
SC30585	Simcenter 3D Motion Standard Tire	no										
SC30590	Simcenter 3D Motion Drivetrain	yes		-	-	32						
SC30575	Simcenter 3D Motion C-code export	no										
SC30574	Simcenter 3D Motion Real-Time Desktop Solver	no										
SC30599	Simcenter 3D Motion Driving Dynamics	no										
Motion Soluti	on Combination											
SC30571	Simcenter 3D Motion Modeling and			-								
SC30572	Simcenter 3D Motion Solver with			-								
SC30581	Simcenter 3D Motion Systems and Controls	no										
SC30579	Simcenter 3D Motion TWR	no										
SC30582	Simcenter 3D Motion Flexible Body	no										
SC30583	Simcenter 3D Motion Flexible Body Adv	no										
SC30585	Simcenter 3D Motion Standard Tire	no										
SC30590	Simcenter 3D Motion Drivetrain	no										
SC30575	Simcenter 3D Motion C-code export	no										
SC30574	Simcenter 3D Motion Real-Time Desktop Solver	yes		-								
SC30599	Simcenter 3D Motion Driving Dynamics	no										

Not enough tokens

SIEMENS

Sufficient tokens

Token Scenarios Simcenter 3D Flexible Pipe

		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual										
SC40510	Simcenter 3D Flexible Pipe Standard Beam									
SC40570	Simcenter 3D Flexible Pipe Standard Shell									
SC40500	Simcenter 3D Flexible Pipe Standard Beam + Shell									
SC40550	Simcenter 3D Flexible Pipe Advanced Beam									
SC40590	Simcenter 3D Flexible Pipe Simulation for EC&WH			Ξ.						
Simcenter 3D	Flexible Beam with Options Combination								1	
SC40510	Simcenter 3D Flexible Pipe Standard Beam		-							
SC40520	Simcenter 3D Flexible Pipe Linear Dynamic	no								
SC40530	Simcenter 3D Flexible Pipe Non-Linear Dynamic	no								
SC40540	Simcenter 3D Flexible Pipe Optimization	no								
SC40580	Simcenter 3D Flexible Pipe EC&WH Option	no								
Simcenter 3D	Flexible Shell with Options Combination		0							
SC40570	Simcenter 3D Flexible Pipe Standard Shell		- 10 <u>-</u> 10							
SC40520	Simcenter 3D Flexible Pipe Linear Dynamic	yes								
SC40530	Simcenter 3D Flexible Pipe Non-Linear Dynamic	yes								
SC40540	Simcenter 3D Flexible Pipe Optimization	no								
SC40580	Simcenter 3D Flexible Pipe EC&WH Option	no								
Simcenter 3D	Flexible Beam and Shell with Options Combination									
SC40500	Simcenter 3D Flexible Pipe Standard Beam + Shell									
SC40520	Simcenter 3D Flexible Pipe Linear Dynamic	yes		-						
SC40530	Simcenter 3D Flexible Pipe Non-Linear Dynamic	yes								
SC40540	Simcenter 3D Flexible Pipe Optimization	no								
SC40580	Simcenter 3D Flexible Pipe EC&WH Option	no								
Simcenter 3D	Flexible Pipe Simulation for EC&WH with Options Combinat	ion								
SC40590	Simcenter 3D Flexible Pipe Simulation for EC&WH				-					
SC40520	Simcenter 3D Flexible Pipe Linear Dynamic	yes		-	-					
SC40530	Simcenter 3D Flexible Pipe Non-Linear Dynamic	yes								

Not enough tokens Sufficient tokens

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Token Scenarios Simcenter 3D Response Dynamics and Model Correlation

		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual										
SC30521	Simcenter 3D Response Dynamics									
SC30527	Simcenter 3D FE Model Correlation									
Response Dyna	mics with Simcenter 3D Structures Combination		o							
SC13500	Simcenter 3D Structures (no tokens) and									
SC30521	Simcenter 3D Response Dynamics									
Correlation wit	h Simcenter 3D Structures Combination			1						
SC13500	Simcenter 3D Structures (no tokens) and			-						
SC30527	Simcenter 3D FE Model Correlation with			-						
SC30528	Simcenter 3D FE Model Update	yes		-						



Token Scenarios Simcenter 3D Durability

		Include			Accepta	ble Token	Amount (i	n Green)		6
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Individual							0:			
SC30531	Simcenter 3D Advanced Durability									
SC30539	Simcenter 3D Specialist Durability Modelling									
Advanced Du	ability with Simcenter 3D Structures Combination		S							
SC13500	Simcenter 3D Structures (no tokens)									
SC30531	Simcenter 3D Advanced Durability									
SC30521	Simcenter 3D Response Dynamics	no								
Specialist Dura	ability with Simcenter 3D Structures Combination					2				
SC13500	Simcenter 3D Structures (no tokens)			-						
SC30539	Simcenter 3D Specialist Durability Modelling			-						
SC30540	Simcenter 3D Specialist Durability Solver	yes		-						
SC30533	Simcenter 3D Specialist Durability for Connections	yes								
Specialist Dura	ability Composites with Simcenter 3D Structures Combination									
SC13500	Simcenter 3D Structures (no tokens)			-						
SC30539	Simcenter 3D Specialist Durability Modelling			-						
SC30541	Simcenter 3D Specialist Durability Composite Fatigue									



Token Scenarios Simcenter 3D Aerostructures

_		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On 50 100 150 200 250 300 350 400							400	
Aerostructures with Simcenter 3D Structures Combination							25-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
SC13500	Simcenter 3D Structures (no tokens) and									
SC30602	Simcenter 3D Margin of Safety									





Token Scenarios Simcenter 3D Additive Manufacturing

		Include			Accepta	ble Token	Amount (i	n Green)		
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400
Additive Man	ufacturing									
SC12500	Simcenter 3D Engineering Desktop (no tokens) or									
SC13500	Simcenter 3D Structures (no tokens) with									
SC40110	Simcenter 3D AM Solver Add-On									





Token Scenarios Simcenter 3D Material Engineering

		Include				Ac	ceptable T	oken Amo	unt (in Gre	en)		y	
Product ID	Product Name	Add-On	50	100	150	200	250	300	350	400	450	500	550
Individual													
SC40200	Simcenter 3D Materials Engineering Standard				-	-							
Materials Eng	ineering Standard and Advanced		2										
SC40200	Simcenter 3D Materials Engineering Standard				-	-	-	-					
SC40201	Simcenter 3D Materials Engineering Advanced			-	-	-	-	-					
MLM2000	Multimech HPC Add-on	no											
Materials Eng	ineering with Simcenter Nastran		y								e. 442.477 - 5		
SC40200	Simcenter 3D Materials Engineering Standard				-	-	-	-	-				
NXN001	Simcenter Nastran Basic				-	-	-	-	-	-			
NXN030	Simcenter Nastran Multistep Nonlinear				-			-					
SC40201	Simcenter 3D Materials Engineering Advanced	no											
MLM2000	Multimech HPC Add-on	yes			-								
Materials Eng	ineering with Simcenter Samcef		2		4								
SC40200	Simcenter 3D Materials Engineering Standard				-			-			-		
SC30536	Simcenter 3D Environment for Samcef				-	-	-	-	-	<u></u>	-		
SCSCF0151	SAMCEF Bacon				-	-		(-)	-		-		
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver				-	-	-	-	-	-	-	-	
SC40201	Simcenter 3D Materials Engineering Advanced	yes				-		(-)	-		-		
MLM2000	Multimech HPC Add-on	yes			-	-	-	-	-	4	-		
Materials Eng	ineering Stand-Alone												
MLM1000	Multimech			-	-	-	-						
MLM2000	Multimech HPC Add-on	yes			-	-	-						
MLM1002	Multimech for Ansys	no											
MLM1003	Multimech for Abaqus	yes			-	-	-						



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Which Simcenter 3D versions use Value Based Licensing?

• VBL is supported with Simcenter 11 and subsequent

Can Simcenter 3D tokens combine with tokens in other portfolio products?

• No, Simcenter 3D Tokens can only be used for Simcenter 3D, Simcenter Nastran, and Simcenter Samcef applications.

Can tokens be used with license borrowing?

• No



How are Tokens consumed by the product

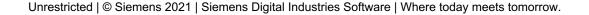
- When an applications or feature is accessed:
 - Software first checks for the license feature of the module. If not available, then ...
 - · Checks for tokens and attempts to check out the required number of token license features
- In both cases, the license features will be held onto until license return actions occur

When are tokens more cost efficient then module-based licensing?

- There is no hard-and-fast rule. Each customer's situation needs to be evaluated.
- But in general, customers wishing to use a larger range of products will be a good candidate for VBL.

Are all Simcenter 3D, Simcenter Nastran, and Simcenter Samcef products usable by tokens?

• Most are but some are not. Several royalty based products are not usable by tokens. Your account manager can explain.



Can tokens be used with together with module-based licensing?

• Yes

Can users control whether a module-based license or token license is consumed?

• No. Simcenter 3D will always try to check-out the module-based license first. Only if not available will it then try to check-out token licenses



Is it possible use Simcenter Nastran via token with Femap?

• Simcenter 3D base products are a mandatory pre-requisite to use Simcenter Nastran via tokens. If you have a mix of Femap with Simcenter 3D, Simcenter Nastran could be run with tokens.

How can users get training for capabilities they may want to use with tokens?

• We recommend that users sign up for Learning Advantage where they can do self-training.



If the price for a module changes, will token count change?

No. Normal prices changes (inflation) impact all modules, including tokens, so the ratio "number of tokens= price of module/price of token" remains identical.

Does Siemens intend to add new applications into the token system? Yes. We are frequently adding new modules and we expect that most will be tokenable. This is one of the inherent values of the value-based licensing system.



How do customers track their token usage?

- Customers can use the Imtools application to track
 their license feature usage
 - Option 1: From the Config Services tab, users can view the log file. This will give a listing of license features (including for tokens) as they are checked in and out.
 - Option 2: From the Server Status tab, users can enter simcenter_token in the Individual Feature entry and get a report of total tokens that are licensed and in use at any moment

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Feature usage info: Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use)					
Feature usage info: Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use)					
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Helps to monitor the status of network licensing activities Perform Status Enquiry Options Individual Daemon Individual Feature simcenter_token Server Name 3 Feature usage info: Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use)	-		1	— — X	
Perform Status Enquiry Perform Status Enquiry Perform Status Enquiry Feature usage info: Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use) Example shows 10 tokens in the licen file and 22 in use	File Edit M	ode Help	/Stop/Reread Server Status Server Dians		
Perform Status Enquiry Perform Status Enquiry Individual Counter_token Server Name 3 Feature usage info: Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use) tokens in the licen file and 22 in use	File Edit M Service/Licens	ode Help e File System Settings Utilities Start/			
Perform Status Enquiry Individual Feature simcenter_token Server Name J J J J J J J J J J J J J	File Edit M Service/Licens	ode Help e File System Settings Utilities Start/	es		
Feature usage info: Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use)	File Edit M Service/Licens	ode Help e File System Settings Utilities Start/	es Options		Example shows 100
Server Name	File Edit M Service/Licens	ode Help a File System Settings Utilities Start/ tor the status of network licensing activitie	es Options		Example shows 100 tokens in the licens
Users of simcenter_token: (Total of100license issued; Total of 22 licenses in use)	File Edit M Service/Licens	ode Help a File System Settings Utilities Start/ tor the status of network licensing activitie	es Options Individual Daemon	Config Services Borrowing	tokens in the licens
Users of simcenter_token: (Total of 100 license issued; Total of 22 licenses in use)	File Edit M Service/Licens	ode Help a File System Settings Utilities Start/ tor the status of network licensing activitie	es Options Individual Daemon Individual Feature simcenter_to	Config Services Borrowing	tokens in the licens
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