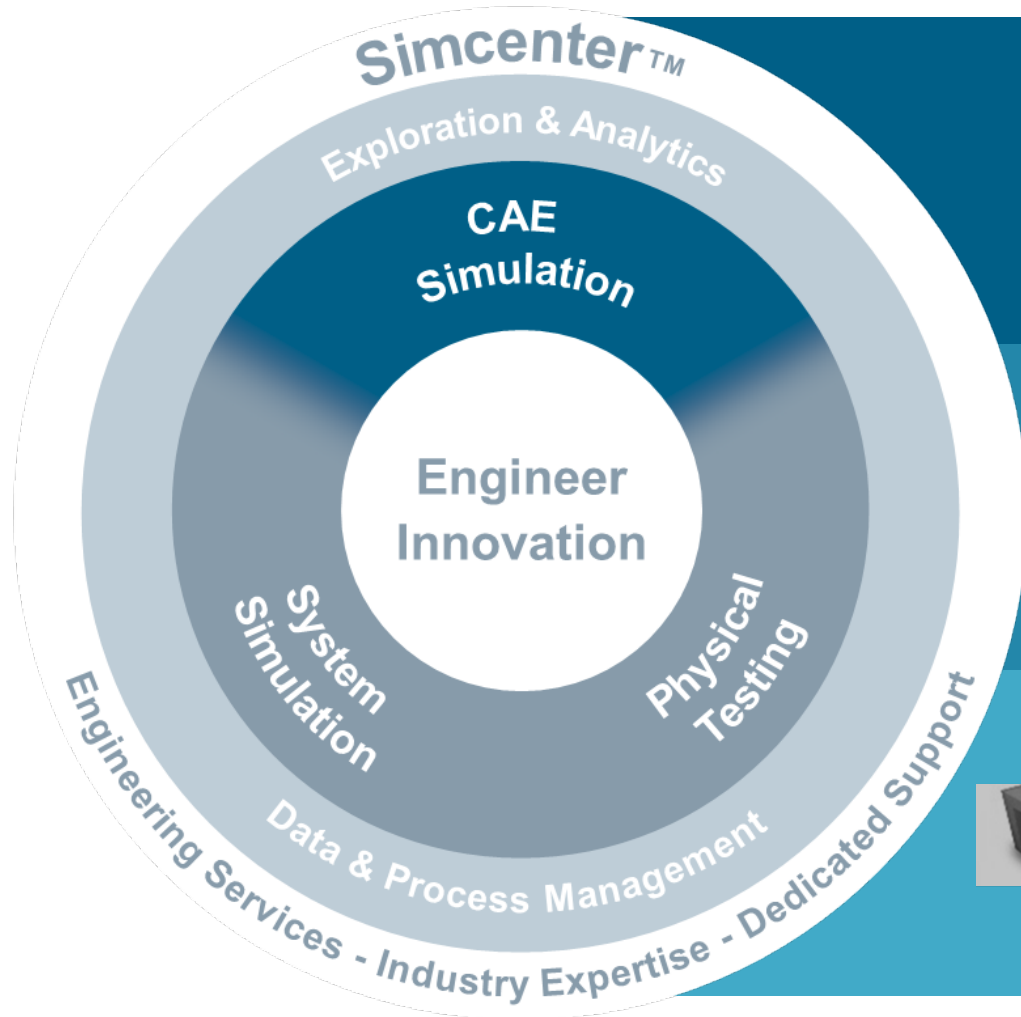# Simcenter 3D Value-Based Licensing for Simcenter 2021.2

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Simcenter – Simulation and Test Solutions

CAE Simulation

Simcenter™ 3D is a unified, scalable, open and extensible environment for 3D CAE with connections to design, 1D simulation, test, and data management.
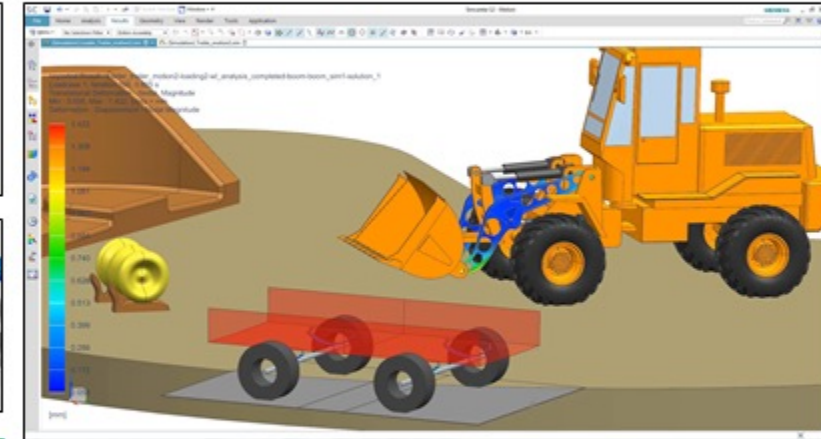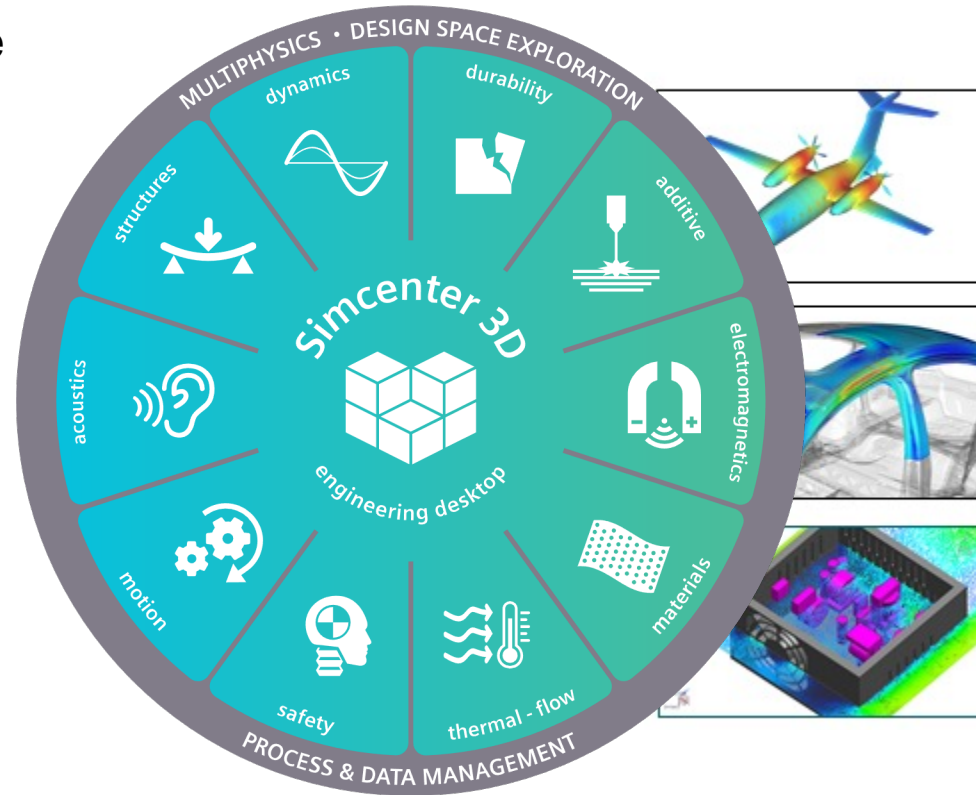
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Simcenter 3D
Value Based Licensing – Motivation

Simcenter 3D provides multi-discipline solutions in a single common user environment.

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

Benefit from a unified, scalable, open and extensible environment for 3D CAE

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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 module-based "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

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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

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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.

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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

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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

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Simcenter 3D Token Supported Applications

Product ID	Product Name
Pre/Post	
SC30536	Simcenter 3D Environment for Simcenter Samcef
SC30523	Simcenter 3D Environment for LS-Dyna
SC30549	Simcenter 3D Environment for MSC Nastran
SC30550	Simcenter 3D Environment for Ansys
SC30551	Simcenter 3D Environment for ABAQUS
SC30570	Simcenter 3D BEM Acoustics Environment
SC30522	Simcenter 3D Laminate Composites
SC30560	Simcenter 3D Advanced Fluid Modeling
SC30620	Simcenter 3D Meshing for Acoustics
SC30640	Simcenter 3D Acoustics Auralization
SC30504	Simcenter 3D Rotor Modeling
SC30604	Simcenter 3D Environment for Ray Acoustics
SC30710	Simcenter 3D Low Frequency EM
Design Space Exploration	
SC30610	Simcenter 3D Design Space Exploration
Additive Manufacturing	
SC40110	Simcenter 3D AM Solver Add-On

Product ID	Product Name
Thermal-Multiphysics	
SC30780	Simcenter 3D Thermal-Multiphysics
SC30537	Simcenter 3D Thermal/Flow DMP
Thermal & Flow Verticals	
SC30517	Simcenter 3D Space Systems Thermal
SC30781	Simcenter 3D Electronic Systems Cooling
Acoustics	
SC30580	Simcenter 3D BEM Acoustics Solver
SC30593	Simcenter 3D ATV
SC30594	Simcenter 3D Acoustics HPC
SC30595	Simcenter 3D Aero-Vibro-Acoustics
Dynamics	
SC30521	Simcenter 3D Response Dynamics
SC30596	Simcenter 3D Noise & Vibration Modeling
SC30501	Simcenter 3D Load Identification
Correlation	
SC30527	Simcenter 3D FE Model Correlation
SC30528	Simcenter 3D FE Model Update
Durability	
SC30531	Simcenter 3D Advanced Durability
SC30532	Simcenter 3D Specialist Durability Modelling
SC30533	Simcenter 3D Specialist Durability for Connections
SC30540	Simcenter 3D Specialist Durability Solver
SC30541	Simcenter 3D Specialist Durability Composite Fatigue
Aerostructures	
SC30602	Simcenter 3D Margin of Safety

Product ID	Product Name
Nastran	
NXN001	Simcenter Nastran Basic
NXN002	Simcenter Nastran Advanced Bundle
	Simcenter Nastran Dynamic Response
	Simcenter Nastran Superelement
	Simcenter Nastran DMAP
	Simcenter Nastran Aero- Elastic
	Simcenter Nastran RDMODES
	Simcenter Nastran Reduced Representations
NXN004	Simcenter Nastran Dynamic Response
NXN010	Simcenter Nastran DMP
NXN015	Simcenter Nastran Advanced Acoustics
NXN016	Simcenter Nastran Topology Optimization
NXN017	Simcenter Nastran Acoustics Trim
NXN030	Simcenter Nastran Multistep Nonlinear
NXN040	Simcenter Nastran Rotor
Samcef	
SCSCF0151	Simcenter Samcef Bacon
SCSCF0152	Simcenter Samcef Asef Solver
SCSCF0156	Simcenter Samcef Stabi Solver
SCSCF0154	Simcenter Samcef Dynam Solver
SCSCF0155	Simcenter Samcef Repdyn Solver
SCSCF0158	Simcenter Samcef Spectral Solver
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver
SCMEC0191	Simcenter Samcef Mecano Thermal Solver
SCSCF1152	Simcenter Samcef Asef Parallel Solver
SCSCF1154	Simcenter Samcef Dynam Parallel Solver
SCSCF1156	Simcenter Samcef Stabi Parallel Solver
SCMEC1160	Simcenter Samcef Mecano Parallel Solver
SCMEC0111	Simcenter Samcef Mecano Supervisor

Product ID	Product Name
Motion	
SC30571	Simcenter 3D Motion Modeling
SC30572	Simcenter 3D Motion Solver
SC30581	Simcenter 3D Motion Systems and Controls
SC30582	Simcenter 3D Motion Flexible Body
SC30585	Simcenter 3D Motion Standard Tire
SC30590	Simcenter 3D Moution Drivetrain
SC30579	Simcenter 3D Motion TWR
SC30583	Simcenter 3D Motion Flexible Body Advanced
SC30599	Simcenter 3D Motion Driving Dynamics
SC30575	Simcenter 3D Motion C-code export
SC30574	Simcenter 3D Motion Real-Time Desktop Solver
Flexible Pipe	
SC40510	Simcenter 3D Flexible Pipe Standard Beam
SC40570	Simcenter 3D Flexible Pipe Standard Shell
SC40500	Simcenter 3D Flexible Pipe Standard Beam + Shell
SC40520	Simcenter 3D Flexible Pipe Linear Dynamic
SC40530	Simcenter 3D Flexible Pipe Non-Linear Dynamic
SC40540	Simcenter 3D Flexible Pipe Optimization
SC40550	Simcenter 3D Flexible Pipe Advanced Beam
SC40580	Simcenter 3D Flexible Pipe EC&WH Option
SC40590	Simcenter 3D Flexible Pipe Simulation for EC&WH
Materials Engineering	
SC40200	Simcenter 3D Materials Engineering Standard
SC40201	Simcenter 3D Materials Engineering Advanced
MLM1000	Multimech
MLM2000	Multimech HPC Add-on
MLM1002	Multimech for Ansys
MLM1003	Multimech for Abaqus

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Customer Usage Example
Scenario: Medium # Users, Many Applications

Aerospace Customer
- Has 12 licenses of Simcenter Engineering Desktop or Simcenter Structures
- 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?

Customer Usage - for a typical week		Monday	Tuesday	Wednesday	Thursday-Friday	Total # Licenses Needed	Total # Tokens Needed
ID	Product Name	# Licenses	# Licenses	# Licenses	# Licenses		
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 Customer
- Has 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?

Customer Usage - for a typical week		Monday	Tuesday	Wednesday	Thursday-Friday	Total # Licenses Needed	Total # Tokens Needed
ID	Product Name	# Licenses	# Licenses	# Licenses	# Licenses		
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

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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

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			50	100	150	200	250	300	350	400	450	500
Individual												
NXN001	Simcenter Nastran Basic		-	☐	☐	☐	☐	☐	☐	☐	☐	☐
Dynamics Combination												
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

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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

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Simcenter 3D Pre-Processing

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			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		☐	☐	☐	☐	☐	☐	☐	☐

Not enough tokens

Sufficient tokens

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Simcenter 3D Thermal & Flow Verticals

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Space Systems Thermal (SST)										
SC30517	Simcenter 3D Space Systems Thermal		–	–	☐	☐	☐	☐	☐	☐
SC30537	Simcenter 3D Thermal/Flow DMP	no	☐	☐	☐	☐	☐	☐	☐	☐
Electronic Systems 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	–	–	–	–	☐	☐	☐	☐

🟥 Not enough tokens

🟩 Sufficient tokens

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Token Scenarios
Simcenter 3D MAGNET

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
ElectroMagnetics										
SC30710	Simcenter 3D Low Frequency EM		–	–	☐	☐	☐	☐	☐	☐
SC30711	Simcenter MAGNET Solver		–	–	☐	☐	☐	☐	☐	☐
SC30712	Simcenter MAGNET Thermal Solver	no	☐	☐	☐	☐	☐	☐	☐	☐
ElectroMagnetics										
SC30710	Simcenter 3D Low Frequency EM		–	–	–	☐	☐	☐	☐	☐
SC30711	Simcenter MAGNET Solver		–	–	–	☐	☐	☐	☐	☐
SC30712	Simcenter MAGNET Thermal Solver	yes	–	–	–	☐	☐	☐	☐	☐

Not enough tokens

Sufficient tokens

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Simcenter 3D Structures with Simcenter Nastran Add-Ons

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Individual										
SC13500	Simcenter 3D Structures (no tokens)		☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
Dynamics Combination										
SC13500	Simcenter 3D Structures		– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
NXN004	Simcenter Nastran Dynamic Response		– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
	Simcenter Nastran Superelement	no	☐	☐	☐	☐	☐	☐	☐	☐
	Simcenter Nastran DMAP	no	☐	☐	☐	☐	☐	☐	☐	☐
NXN010	Simcenter Nastran DMP	yes	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
	Simcenter Nastran RDMODES	yes	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
	Simcenter Nastran Reduced Representations	no	☐	☐	☐	☐	☐	☐	☐	☐
SC30593	Simcenter 3D Noise & Vibration Modeling	no	☐	☐	☐	☐	☐	☐	☐	☐
Acoustics Combination										
SC13500	Simcenter 3D Structures		– (red)	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
NXN004	Simcenter Nastran Dynamic Response		– (red)	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
NXN015	Simcenter Nastran Advanced Acoustics		– (red)	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
	Simcenter Nastran Superelement	yes	– (red)	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
	Simcenter Nastran DMAP	yes	– (red)	– (red)	– (red)	☐ (green)	☐ (green)	☐ (green)	☐ (green)	☐ (green)
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

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

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Aero-Elastic Combination										
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 Combination										
SC13500	Simcenter 3D Structures		–	☐	☐	☐	☐	☐	☐	☐
NXN030	Simcenter Nastran Multistep Nonlinear		–	☐	☐	☐	☐	☐	☐	☐
NXN010	Simcenter Nastran DMP	no	☐	☐	☐	☐	☐	☐	☐	☐
Rotor Dynamics Combination										
SC13500	Simcenter 3D Structures		–	–	☐	☐	☐	☐	☐	☐
SC30504	Simcenter 3D Rotor Modeling		–	–	☐	☐	☐	☐	☐	☐
NXN040	Simcenter Nastran Rotor		–	–	☐	☐	☐	☐	☐	☐
Load Identification Combination										
SC13500	Simcenter 3D Structures **and**		☐	☐	☐	☐	☐	☐	☐	☐
SC30501	Simcenter 3D Load Identification		☐	☐	☐	☐	☐	☐	☐	☐

Red ▮ Not enough tokens

Green ▮ Sufficient tokens

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Simcenter Nastran Enterprise

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			50	100	150	200	250	300	350	400	450	500
Individual												
NXN001	Simcenter Nastran Basic		–	☐	☐	☐	☐	☐	☐	☐	☐	☐
Dynamics Combination												
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 Combination												
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	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Not enough tokens

Sufficient tokens

SIEMENS

Token Scenarios
Simcenter Nastran Enterprise (more combinations)

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			50	100	150	200	250	300	350	400	450	500
Aero-Elastic 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 Combination												
NXN001	Simcenter Nastran Basic		–	–	–	☐	☐	☐	☐	☐	☐	☐
NXN030	Simcenter Nastran Multistep Nonlinear		–	–	–	☐	☐	☐	☐	☐	☐	☐
NXN010	Simcenter Nastran DMP	no	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Rotor Dynamics Combination												
NXN001	Simcenter Nastran Basic		–	–	–	☐	☐	☐	☐	☐	☐	☐
NXN040	Simcenter Nastran Rotor (SOL414)		–	–	–	☐	☐	☐	☐	☐	☐	☐
SC30504	Simcenter 3D Rotor Modeling	yes	–	–	–	☐	☐	☐	☐	☐	☐	☐

🟥 Not enough tokens

🟩 Sufficient tokens

SIEMENS

Token Scenarios
Simcenter 3D Multiphysics – Thermal and Flow

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)								
			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 Solutions											
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 Coupled Solutions											
SC30780	Simcenter 3D Thermal-Multiphysics		-	-	-	□	□	□	□	□	□
	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	□	□	□	□	□	□	□	□	□

🟥 Not enough tokens

🟩 Sufficient tokens

SIEMENS

Simcenter 3D Multiphysics – Thermal and Flow and Structural

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)								
			50	100	150	200	250	300	350	400	450
Thermal/Mechanical 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/Mechanical 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/Mechanical/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 (red)

Sufficient tokens (green)

SIEMENS

Token Scenarios
Simcenter Nastran for NVH

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Simcenter Nastran Hybrid NVH Enterprise Combination										
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 Nastran Hybrid NVH Desktop Combination										
SC13500	Simcenter 3D Structures **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	–	–	☐	☐	☐	☐	☐	☐

🟥 Not enough tokens

🟩 Sufficient tokens

SIEMENS

Simcenter 3D BEM Acoustics

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			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	🟥	🟥	🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩

🟥 Not enough tokens

🟩 Sufficient tokens

SIEMENS

Simcenter Nastran FEM Acoustics

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			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												
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	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Simcenter Nastran Superelement	no	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Simcenter Nastran Reduced Representations	no	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Simcenter Nastran DMAP	no	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Not enough tokens

Sufficient tokens

SIEMENS

Token Scenarios
Simcenter Samcef Linear

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Individual										
SC30536	Simcenter 3D Environment for Samcef		□	□	□	□	□	□	□	□
SCSCF0151	Simcenter Samcef Bacon		□	□	□	□	□	□	□	□
Linear Statics Combination										
SC30536	Simcenter Environment for Samcef		−	□	□	□	□	□	□	□
SCSCF-0152	Asef Solver		−	□	□	□	□	□	□	□
SCSCF-1152	Asef Parallel Solver	no	□	□	□	□	□	□	□	□
Linear Buckling 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 Dynamic Response Combination										
SC30536	Simcenter Environment for Samcef		−	□	□	□	□	□	□	□
SCSCF-0155	Repdyn Solver		−	□	□	□	□	□	□	□
Linear Random Response Combination										
SC30536	Simcenter Environment for Samcef		−	□	□	□	□	□	□	□
SCSCF-0158	Spectral Solver		−	□	□	□	□	□	□	□

Red — Not enough tokens
Green — Sufficient tokens

SIEMENS

Token Scenarios
Simcenter Samcef Non-Linear

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Individual										
SC30536	Simcenter 3D Environment for Samcef		🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩
SCSCF0151	Simcenter Samcef Bacon		🟩	🟩	🟩	🟩	🟩	🟩	🟩	🟩
Nonlinear Combination										
SC30536	Simcenter 3D Environment for Samcef		🟥	🟥	🟩	🟩	🟩	🟩	🟩	🟩
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver		🟥	🟥	🟩	🟩	🟩	🟩	🟩	🟩
SCMEC1160	Simcenter Samcef Mecano Parallel Solver	no	☐	☐	☐	☐	☐	☐	☐	☐
Thermal Combination										
SC30536	Simcenter 3D Environment for Samcef		🟥	🟥	🟩	🟩	🟩	🟩	🟩	🟩
SCMEC0191	Simcenter Samcef Mecano Thermal Solver		🟥	🟥	🟩	🟩	🟩	🟩	🟩	🟩
SCMEC1160	Simcenter Samcef Mecano Parallel Solver	no	☐	☐	☐	☐	☐	☐	☐	☐
Thermal/Mechanical Combination										
SC30536	Simcenter 3D Environment for Samcef		🟥	🟥	🟥	🟥	🟩	🟩	🟩	🟩
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver		🟥	🟥	🟥	🟥	🟩	🟩	🟩	🟩
SCMEC0191	Simcenter Samcef Mecano Thermal Solver		🟥	🟥	🟥	🟥	🟩	🟩	🟩	🟩
SCMEC0111	Simcenter Samcef Mecano Supervisor		🟥	🟥	🟥	🟥	🟩	🟩	🟩	🟩
SCMEC1160	Simcenter Samcef Mecano Parallel Solver	no	☐	☐	☐	☐	☐	☐	☐	☐

🟥 Not enough tokens

🟩 Sufficient tokens

SIEMENS

Simcenter 3D Motion

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			50	100	150	200	250	300	350	400	450	500
Individual												
SC30571	Simcenter 3D Motion Modeling		□	□	□	□	□	□	□	□	□	□
Motion Solution 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	-	-	□	□	□	□	□	□	□	□
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 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	-	-	-	□	□	□	□	□	□	□
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

SIEMENS

Simcenter 3D Motion (more combinations)

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)									
			50	100	150	200	250	300	350	400	450	500
Individual												
SC30571	Simcenter 3D Motion Modeling		□	□	□	□	□	□	□	□	□	□
Motion Solution 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	–	–	–	–	□	□	□	□	□	□
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 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

🟩 Sufficient tokens

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Token Scenarios
Simcenter 3D Flexible Pipe

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			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		–	–	☐	☐	☐	☐	☐	☐
Simcenter 3D Flexible Beam with Options Combination										
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										
SC40570	Simcenter 3D Flexible Pipe Standard 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 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 Combination										
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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Simcenter 3D Response Dynamics and Model Correlation

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Individual										
SC30521	Simcenter 3D Response Dynamics		☐	☐	☐	☐	☐	☐	☐	☐
SC30527	Simcenter 3D FE Model Correlation		–	☐	☐	☐	☐	☐	☐	☐
Response Dynamics with Simcenter 3D Structures Combination										
SC13500	Simcenter 3D Structures (no tokens) **and**		☐	☐	☐	☐	☐	☐	☐	☐
SC30521	Simcenter 3D Response Dynamics		☐	☐	☐	☐	☐	☐	☐	☐
Correlation with Simcenter 3D Structures Combination										
SC13500	Simcenter 3D Structures (no tokens) **and**		–	–	☐	☐	☐	☐	☐	☐
SC30527	Simcenter 3D FE Model Correlation **with**		–	–	☐	☐	☐	☐	☐	☐
SC30528	Simcenter 3D FE Model Update	yes	–	–	☐	☐	☐	☐	☐	☐

■ Not enough tokens

■ Sufficient tokens

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Simcenter 3D Durability

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Individual										
SC30531	Simcenter 3D Advanced Durability		–	☐	☐	☐	☐	☐	☐	☐
SC30539	Simcenter 3D Specialist Durability Modelling									
Advanced Durability with Simcenter 3D Structures Combination										
SC13500	Simcenter 3D Structures (no tokens)		–	☐	☐	☐	☐	☐	☐	☐
SC30531	Simcenter 3D Advanced Durability		–	☐	☐	☐	☐	☐	☐	☐
SC30521	Simcenter 3D Response Dynamics	no	☐	☐	☐	☐	☐	☐	☐	☐
Specialist Durability with Simcenter 3D Structures Combination										
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 Durability 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		–	–	☐	☐	☐	☐	☐	☐

Not enough tokens

Sufficient tokens

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Simcenter 3D Aerostructures

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Aerostructures with Simcenter 3D Structures Combination										
SC13500	Simcenter 3D Structures (no tokens) **and**		☐	☐	☐	☐	☐	☐	☐	☐
SC30602	Simcenter 3D Margin of Safety		☐	☐	☐	☐	☐	☐	☐	☐

■ Not enough tokens

■ Sufficient tokens

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Simcenter 3D Additive Manufacturing

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)							
			50	100	150	200	250	300	350	400
Additive Manufacturing										
SC12500	Simcenter 3D Engineering Desktop (no tokens) **or**		☐	☐	☐	☐	☐	☐	☐	☐
SC13500	Simcenter 3D Structures (no tokens) **with**		☐	☐	☐	☐	☐	☐	☐	☐
SC40110	Simcenter 3D AM Solver Add-On		–	☐	☐	☐	☐	☐	☐	☐

Not enough tokens

Sufficient tokens

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Simcenter 3D Material Engineering

Product ID	Product Name	Include Add-On	Acceptable Token Amount (in Green)										
			50	100	150	200	250	300	350	400	450	500	550
Individual													
SC40200	Simcenter 3D Materials Engineering Standard		–	–	–	–	☐	☐	☐	☐	☐	☐	☐
Materials Engineering Standard and Advanced													
SC40200	Simcenter 3D Materials Engineering Standard		–	–	–	–	–	–	☐	☐	☐	☐	☐
SC40201	Simcenter 3D Materials Engineering Advanced		–	–	–	–	–	–	☐	☐	☐	☐	☐
MLM2000	Multimech HPC Add-on	no	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Materials Engineering with Simcenter Nastran													
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 Engineering with Simcenter Samcef													
SC40200	Simcenter 3D Materials Engineering Standard		–	–	–	–	–	–	–	–	–	–	☐
SC30536	Simcenter 3D Environment for Samcef		–	–	–	–	–	–	–	–	–	–	☐
SCSCF0151	SAMCEF Bacon		–	–	–	–	–	–	–	–	–	–	☐
SCMEC0181	Simcenter Samcef Mecano Non-Linear Mechanical Solver		–	–	–	–	–	–	–	–	–	–	☐
SC40201	Simcenter 3D Materials Engineering Advanced	yes	–	–	–	–	–	–	–	–	–	–	☐
MLM2000	Multimech HPC Add-on	yes	–	–	–	–	–	–	–	–	–	–	☐
Materials Engineering Stand-Alone													
MLM1000	Multimech		–	–	–	–	–	☐	☐	☐	☐	☐	☐
MLM2000	Multimech HPC Add-on	yes	–	–	–	–	–	☐	☐	☐	☐	☐	☐
MLM1002	Multimech for Ansys	no	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
MLM1003	Multimech for Abaqus	yes	–	–	–	–	–	☐	☐	☐	☐	☐	☐

🟥 Not enough tokens

🟩 Sufficient tokens

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FAQ – Value Based Licensing

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

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FAQ – Value Based Licensing

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.

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FAQ – Value Based Licensing

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

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FAQ – Value Based Licensing

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.

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FAQ – Value Based Licensing

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.
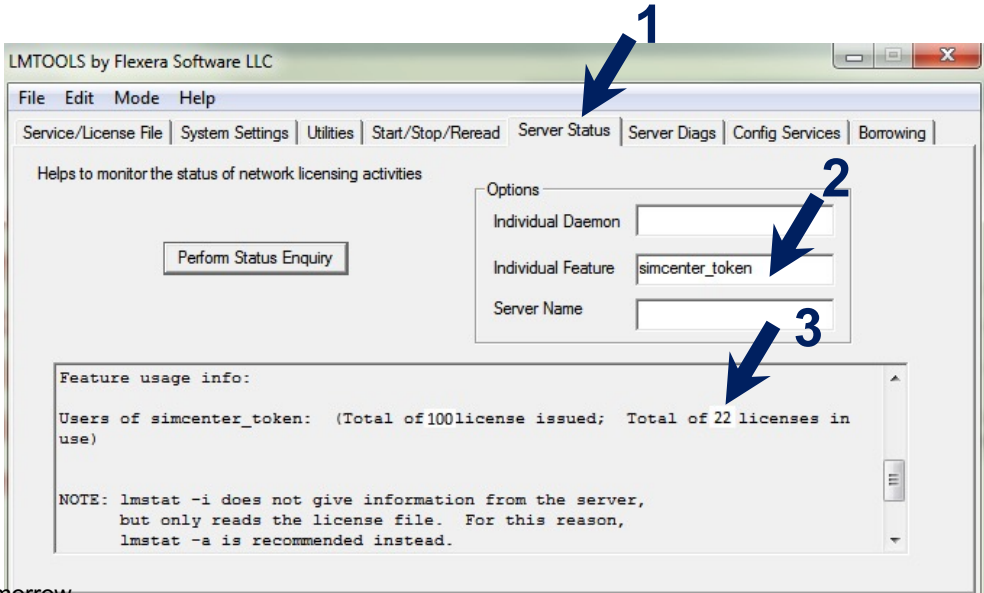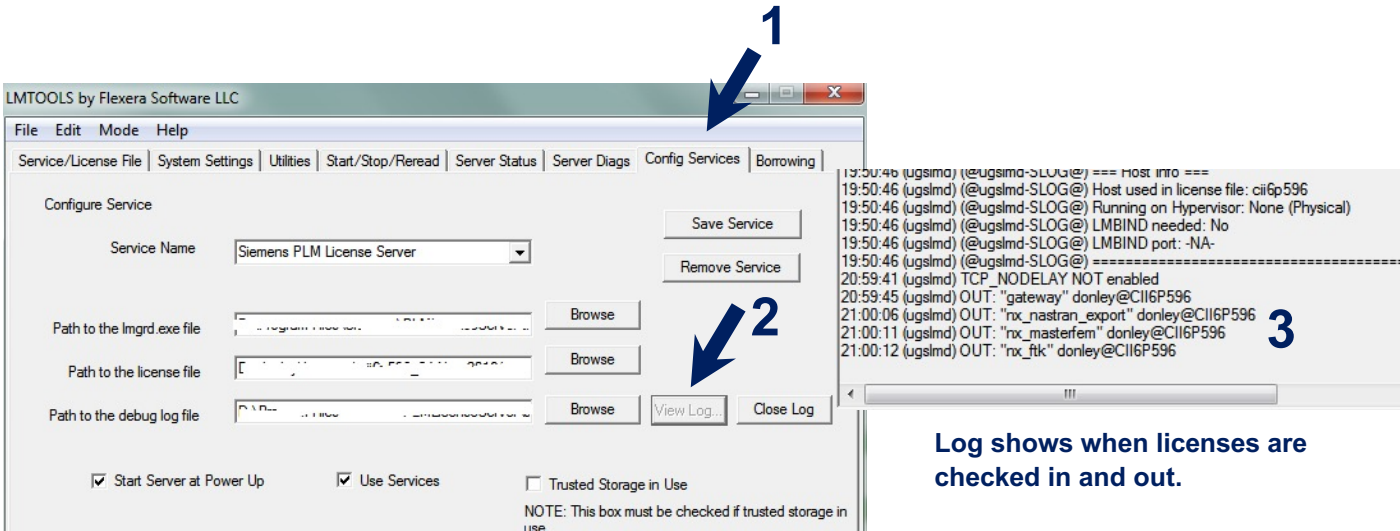
Does Siemens intend to add new applications into the token system?

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.

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FAQ – Value Based Licensing

How do customers track their token usage?

- Customers can use the lmtools 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.

Log shows when licenses 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

Example shows 100 tokens in the license file and 22 in use

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