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Webinar:

Value-based Licensing in Siemens Simcenter 3D

Scott Thibault,
ATA Engineering, Inc.

June 5, 2020

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 ata-engineering

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- Simcenter 3D
- Teamcenter

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➤ Contact the hotline at 877-ATA-4CAE or

<http://ata-plmsoftware.com/support>

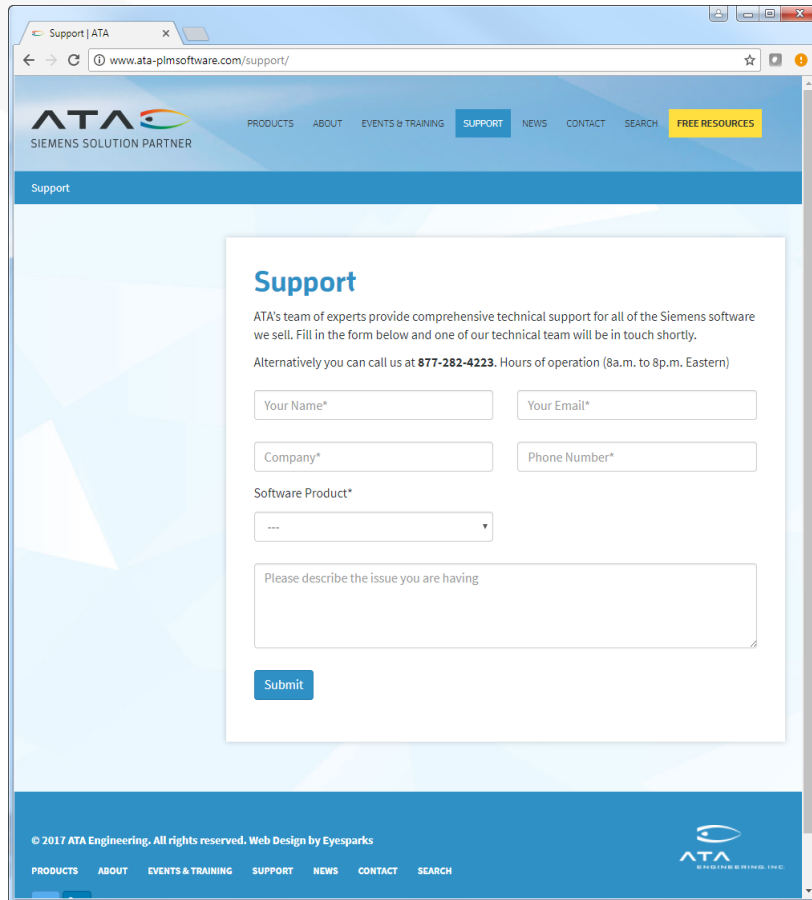
- Developer of the official Simcenter Nastran training materials
- Preferred North American provider of Simcenter Nastran training
- Recognized as Smart Expert Partner with validated expertise in Femap, STAR-CCM+, and Simcenter 3D



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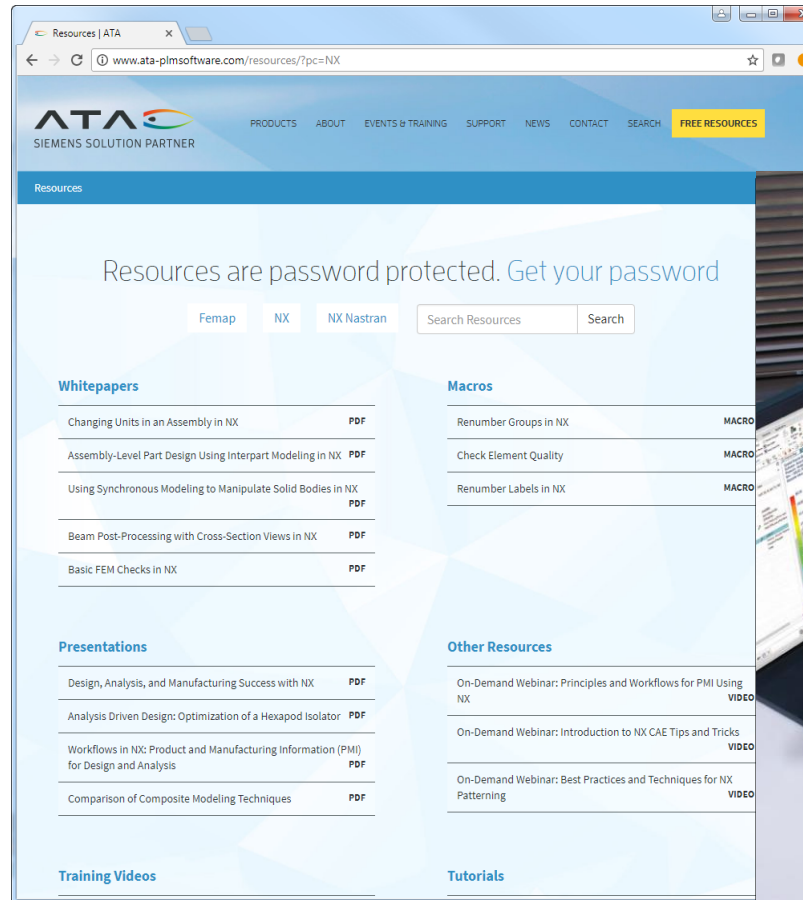
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Whitepapers

| | |
|---|-----|
| Changing Units in an Assembly in NX | PDF |
| Assembly-Level Part Design Using Interpart Modeling in NX | PDF |
| Using Synchronous Modeling to Manipulate Solid Bodies in NX | PDF |
| Beam Post-Processing with Cross-Section Views in NX | PDF |
| Basic FEM Checks in NX | PDF |

Presentations

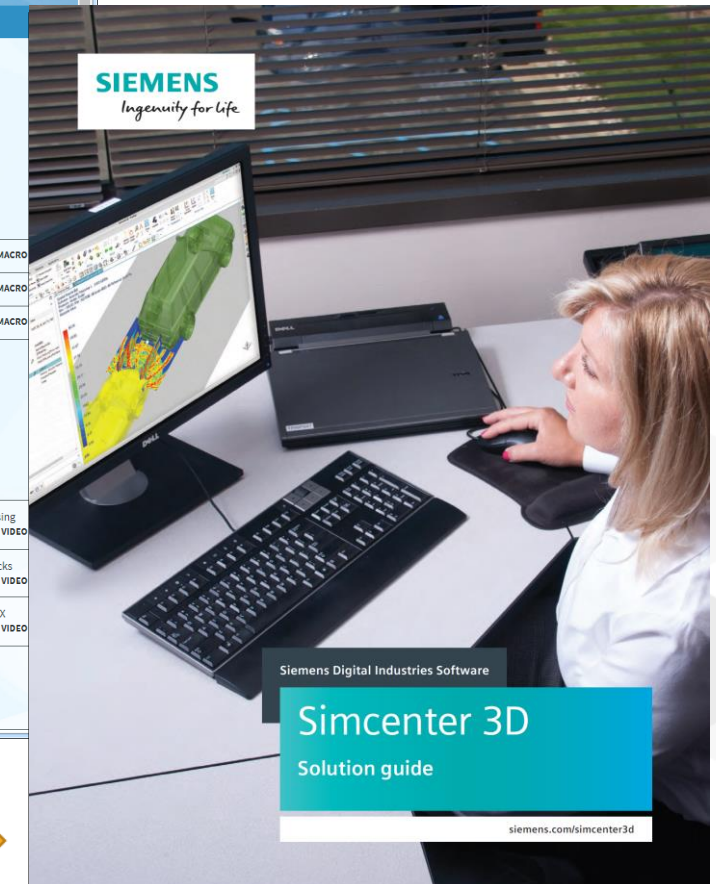
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|--|-----|
| Design, Analysis, and Manufacturing Success with NX | PDF |
| Analysis Driven Design: Optimization of a Hexapod Isolator | PDF |
| Workflows in NX: Product and Manufacturing Information (PMI) for Design and Analysis | PDF |
| Comparison of Composite Modeling Techniques | PDF |

Other Resources

| | |
|--|-------|
| On-Demand Webinar: Principles and Workflows for PMI Using NX | VIDEO |
| On-Demand Webinar: Introduction to NX CAE Tips and Tricks | VIDEO |
| On-Demand Webinar: Best Practices and Techniques for NX Patterning | VIDEO |

Training Videos

Tutorials



Webinar: Introduction to Simcenter 3D Value-Based Licensing (Tokens)

Scott Thibault – ATA Engineering, Inc.
May Taylor – Siemens Digital Industries Software Inc.
Mike Senediak – Siemens Digital Industries Software Inc.

Simcenter 3D vs. Traditional CAE Tools

Traditional CAE Tools

Disconnected & discipline-specific

Poor geometry editing capabilities

Repeat modeling for each design iteration

Usually tied to a single solver

No data management

Simcenter 3D

Scalable, unified multi-discipline simulation environment

- CAD-level geometry capabilities
- Synchronous Technology for fast, intuitive editing

- Associative to CAD model
- Automatically update analysis model when designs change

Open, multi-vendor CAE solver support



Seamlessly integrated with Teamcenter Simulation Process Management

Multi-CAE solver support



**Simcenter
Nastran**

**Simcenter
Samcef**

Abaqus

- Multi-CAD geometry editing
- Comprehensive meshing
- Assembly management

Simcenter 3D

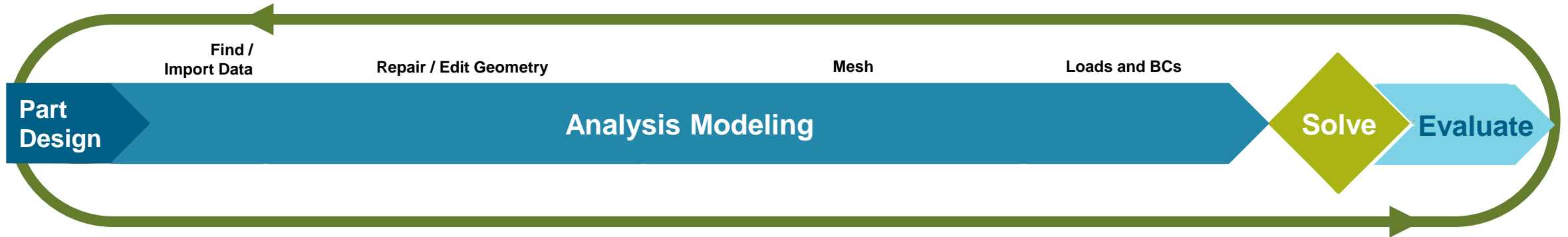
- Solution / subcase management
- Post-processing & reporting
- Associativity

ANSYS

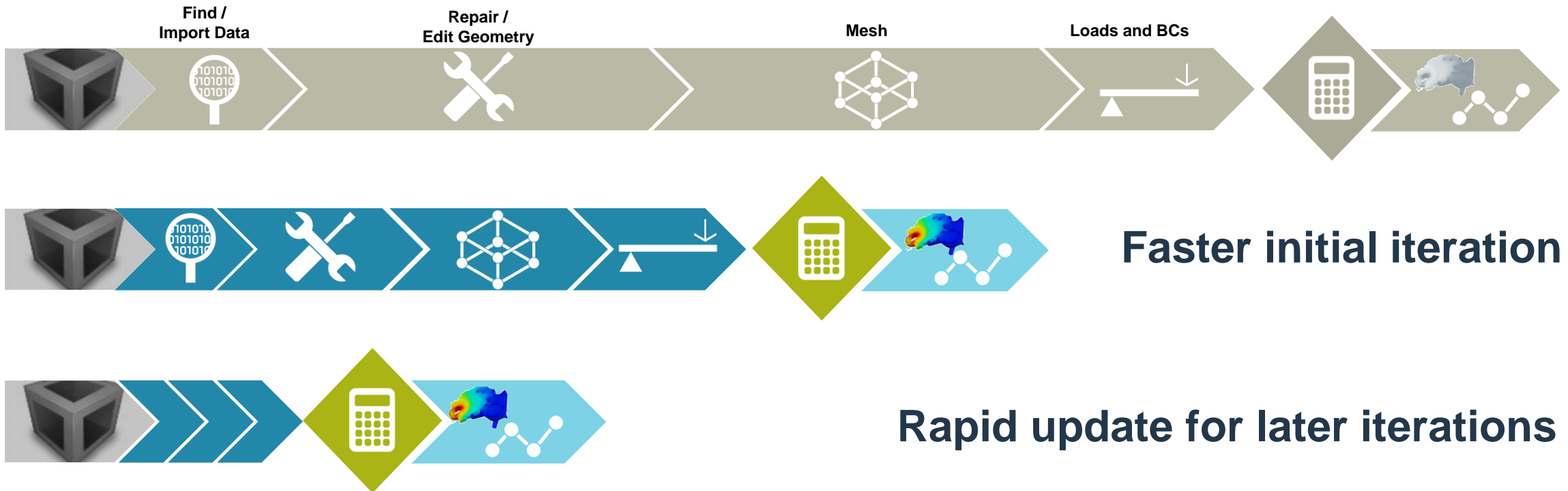
LS-Dyna

MSC Nastran

The Traditional CAE Process



Simcenter 3D vs. Traditional CAE



Simcenter 3D

Motivation for Value-Based Licensing

- Simcenter 3D offers a very wide range of capabilities to Siemens Customers
- Value-Based (token) licensing provides a cost effective way for users to access this full range of capabilities



Typical per-seat, floating license pool of products:
a few products from which to choose and run

Simcenter 3D token pool:
More than 84 products from which to choose and run!

What is Value Based Licensing?



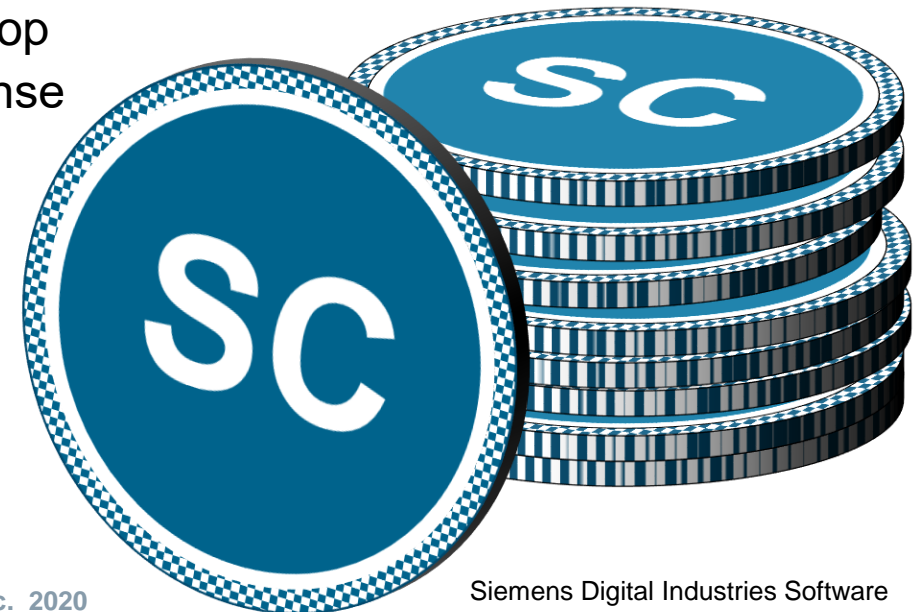
Value Based Licensing (VBL) is an additional licensing method accessed through the token packs.

VBL operates by the same Flex license server as used for module-based licenses

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

Requires a “Base Application” to enable the use of tokens.

- Tokens apply only for additional Product Modules configured on top of the “Base Application” which is a module-based “Desktop” license
- Base Licenses can be either perpetual or subscription/lease
- 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?



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 a wide variety of capabilities but not all at the same time.



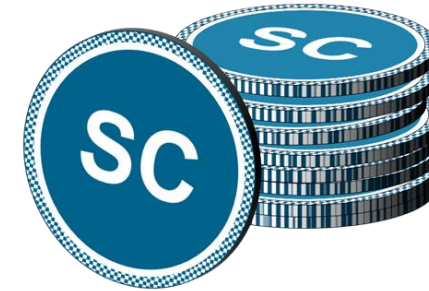
How Does Value Based Licensing Work?



Users always need to run the 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 is given

When tokens are used ...

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



Simcenter 3D Value-Based Licensing Products



Value-Based Licensing Packs

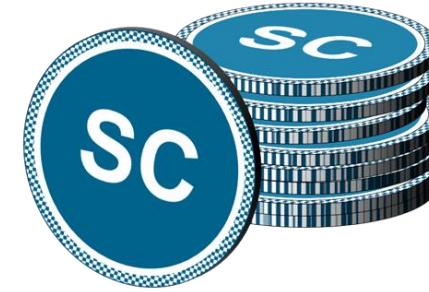
SC10100 Simcenter Value Based License 100 Pack

- 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 are available on a perpetual, subscription, or rental basis.



Token Enabled Products

Most of Simcenter 3D and Simcenter Nastran

Simcenter Environments

- Environments for MSC Nastran, Ansys, Abaqus, LS-Dyna, Samcef, Simcenter BEM Acoustics, Simcenter Aerostructures

Simcenter Thermal/Flow

- Thermal, Flow, Advanced Thermal, Advanced Flow, Distributed Memory Processing, Space Systems Cooling, Electronic Systems Cooling

Simcenter Modeling Add-Ons

- Acoustic Meshing, Flow Modeling, Laminate Composites, Design Space Exploration

Simcenter Solutions

- BEM Acoustics, Durability, Response Dynamics, Correlation, Model Update

Simcenter Motion, Flexible Pipe, and Additive Manufacturing

Linear and Non-linear Structure Solvers

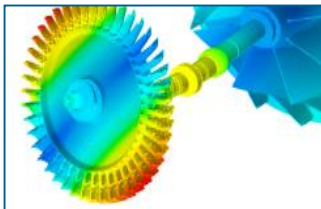
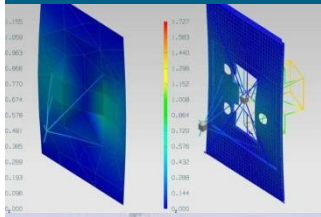
- Simcenter Nastran, Simcenter Samcef, Distributed Memory Processing

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

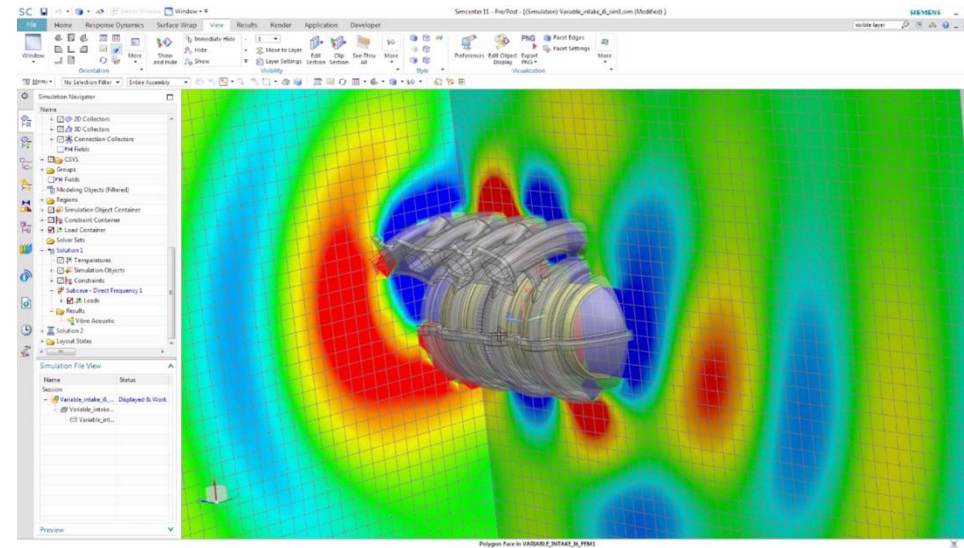
**84+ Total
Applications**

Simcenter 3D Multipurpose Simulation Environment

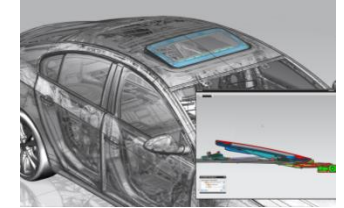
TEST-CAE Correlation



Structures
Dynamics
**NVH &
Acoustics**
Thermal
Flow
Composites

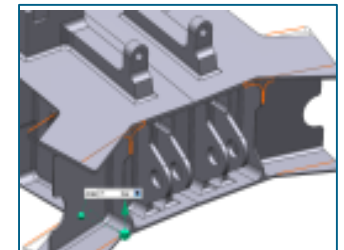
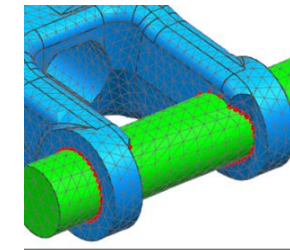
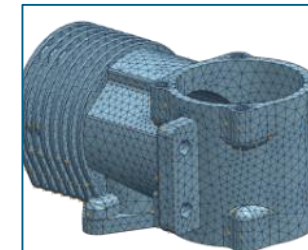
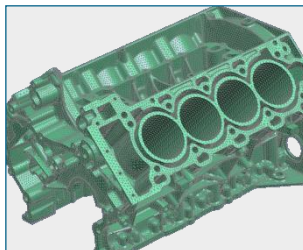
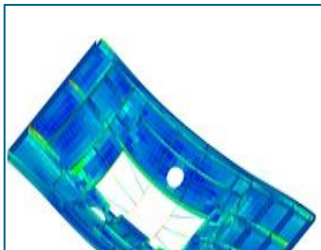


Motion
**Rotor
Dynamics**
Durability
Optimization
**Electro-
magnetics**



**1D – 3D
Co-Simulation**

Multiphysics



Linear FEM

Non-Linear FEM

BEM

Multi-body

Fatigue

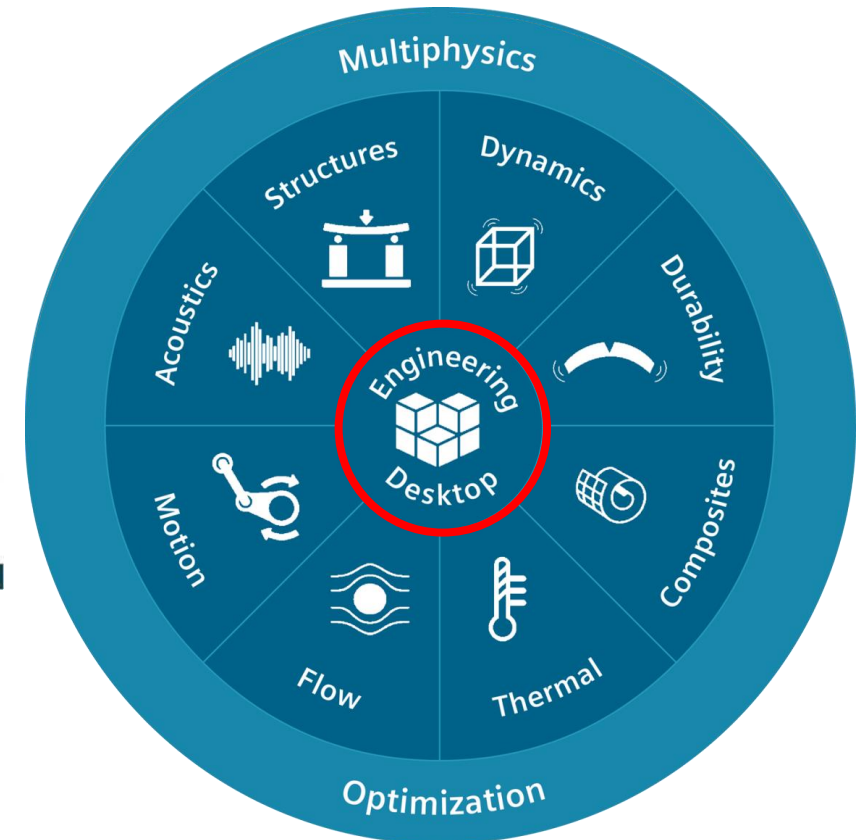
Thermal

CFD

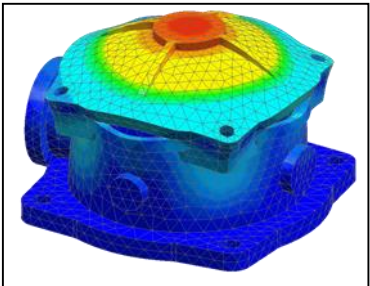
Engineering Desktop and CAE Environments



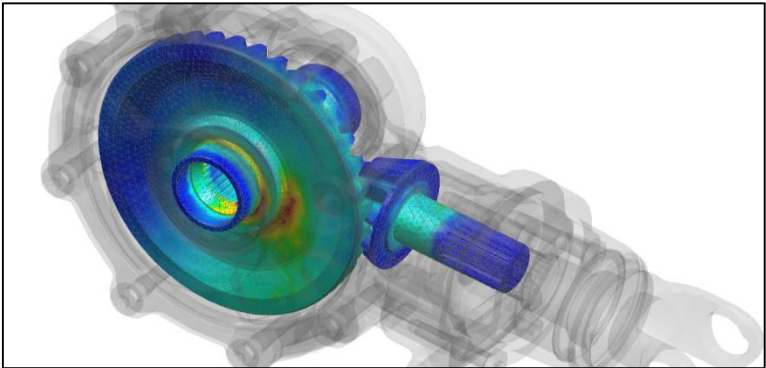
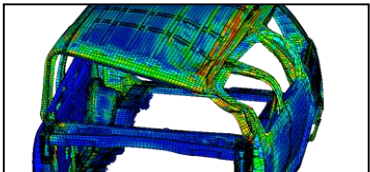
- Simcenter Engineering Desktop is the simulation environment for associative simulation modeling.
- Simcenter Engineering Desktop has the ability to clean and parametrize CAD geometry from almost any source “on the fly”.
- Simulation Environments are available not only for Siemens products but for a number of other popular commercial solvers.



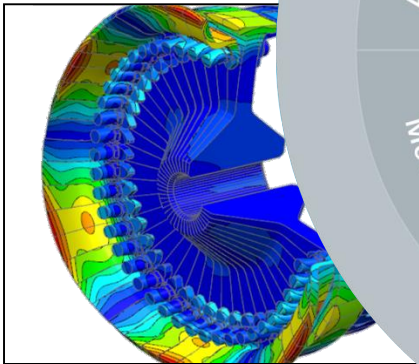
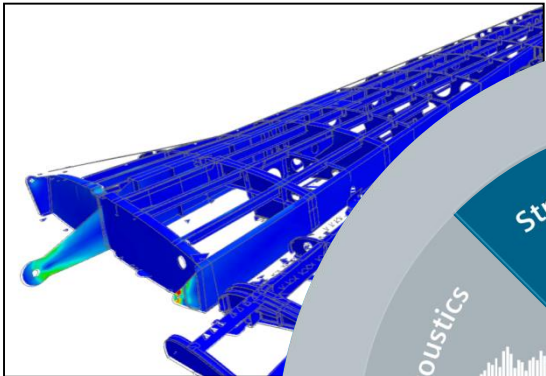
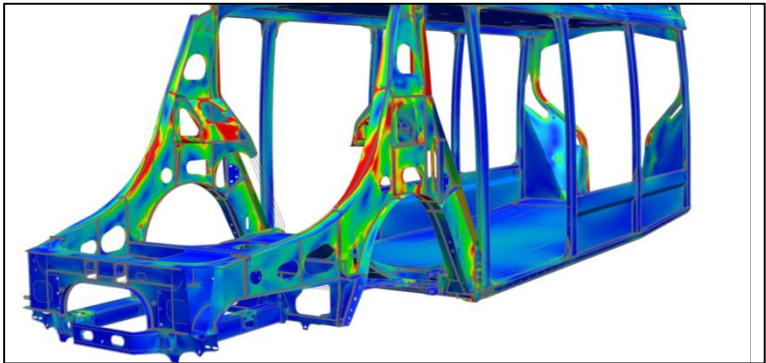
Structural Analysis



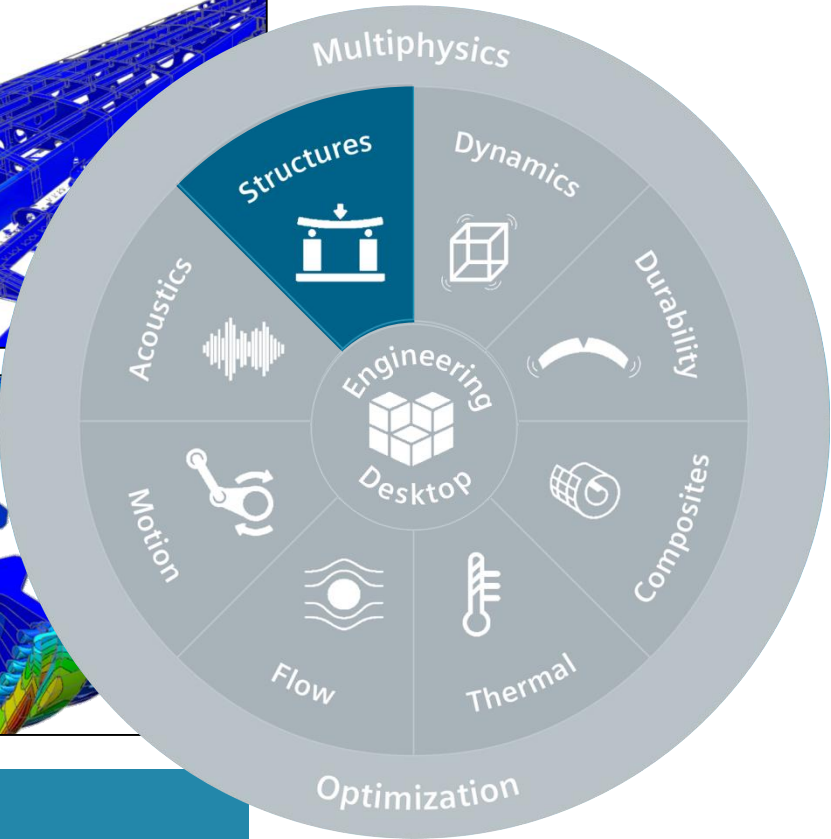
LMS Samcef



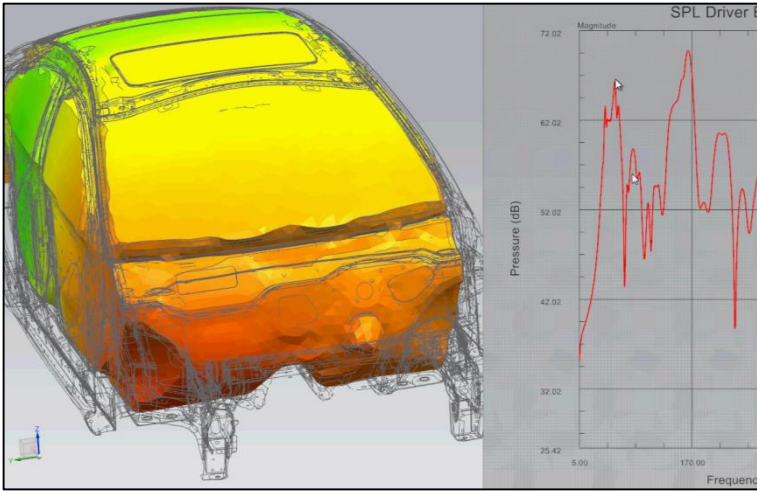
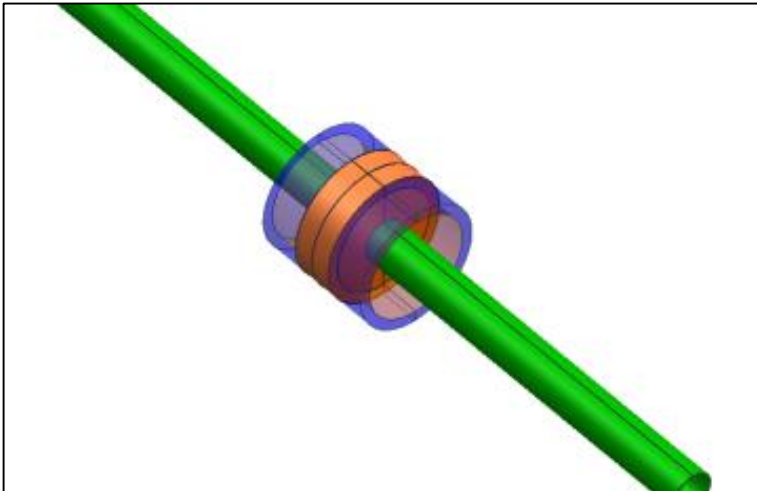
Linear
Nonlinear
Modal
Buckling
Rotor dynamics



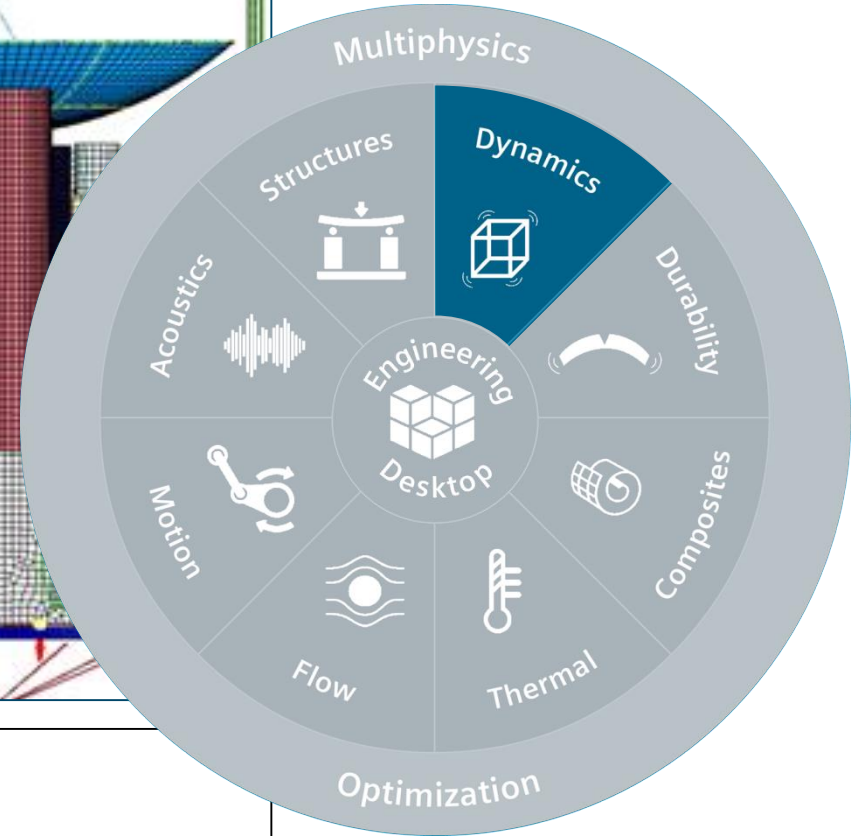
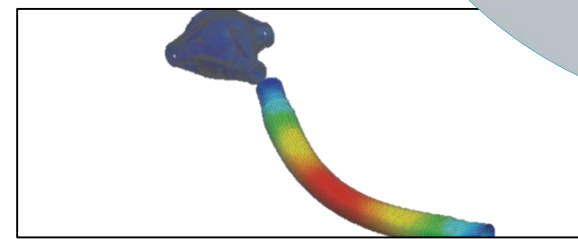
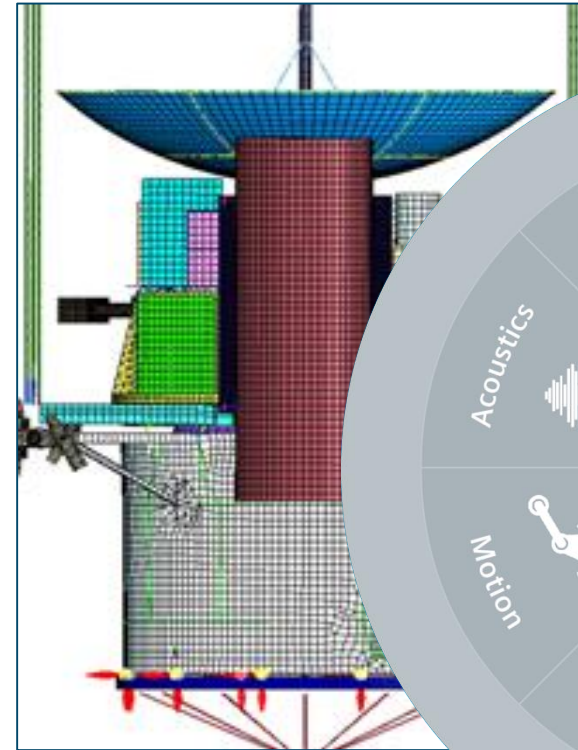
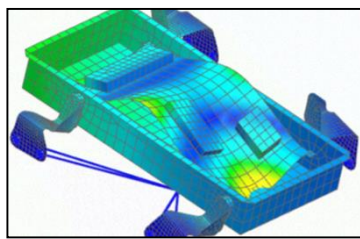
NX Nastran

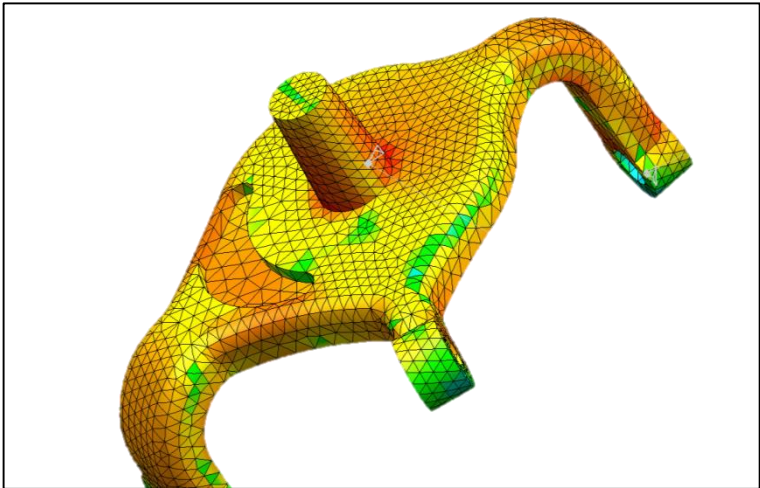


Structural Dynamics

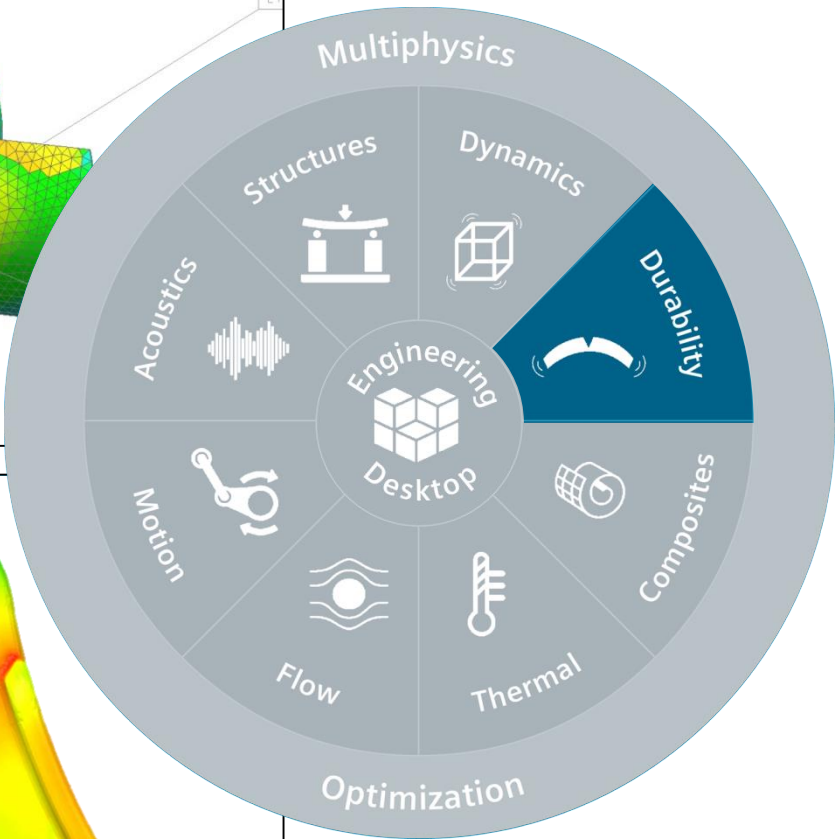
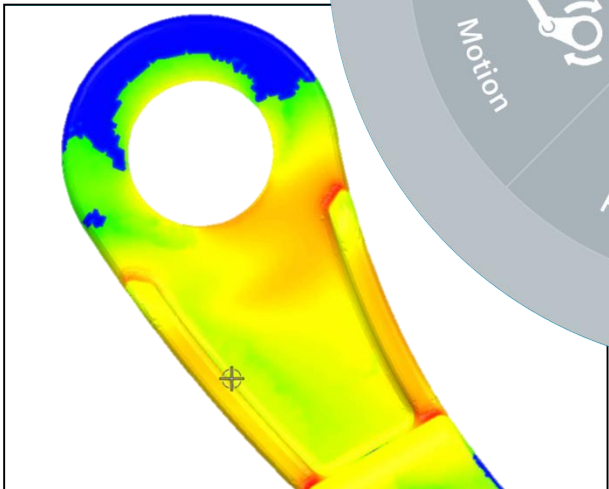
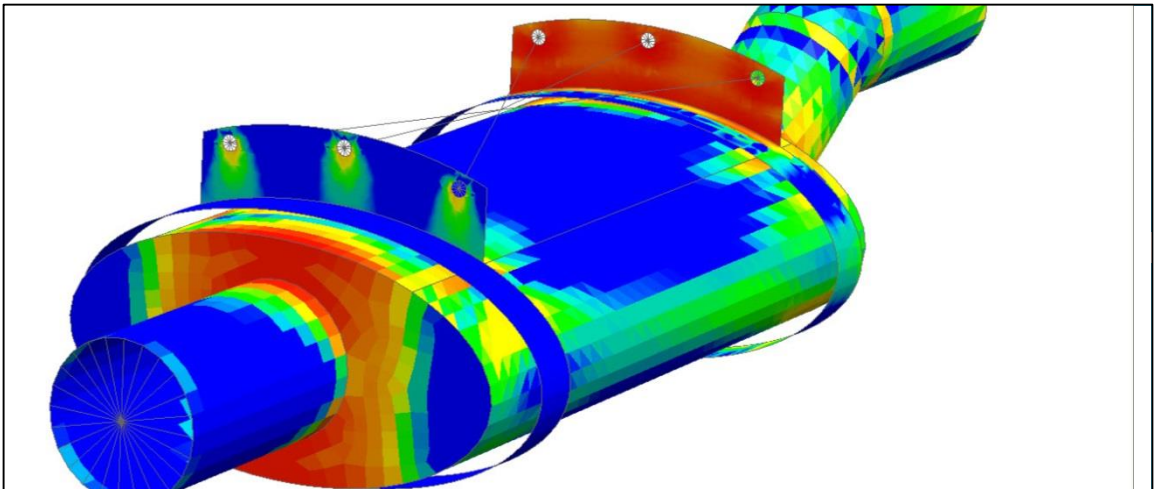
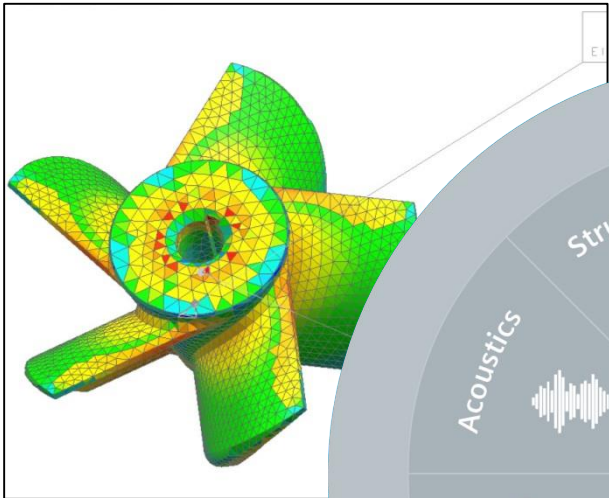


Dynamics
Response dynamics
NVH
Rotor dynamics
Aeroelasticity

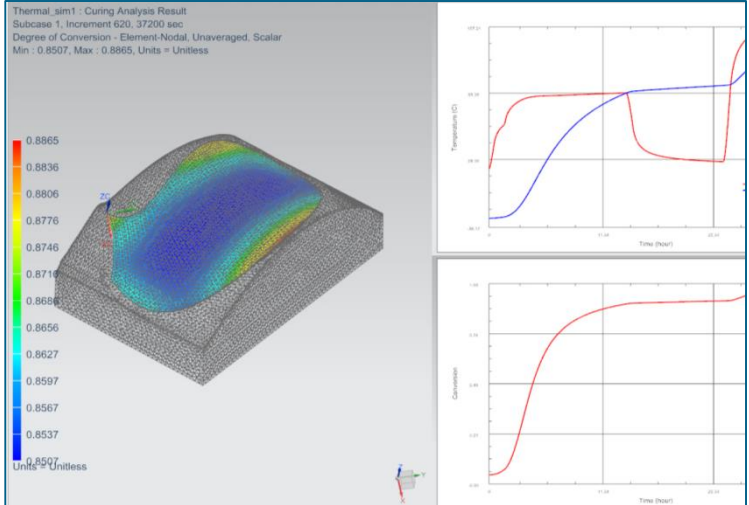
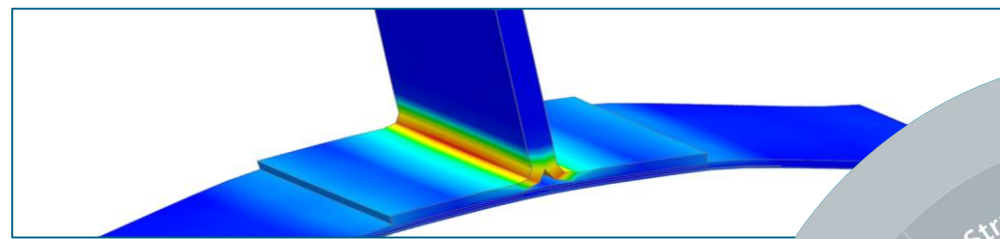
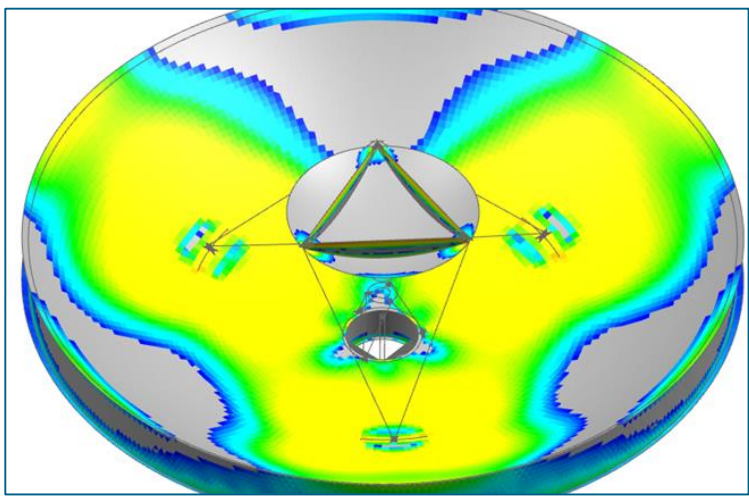




Static
Transient
Random
Strain gauge
durability



Composites Analysis



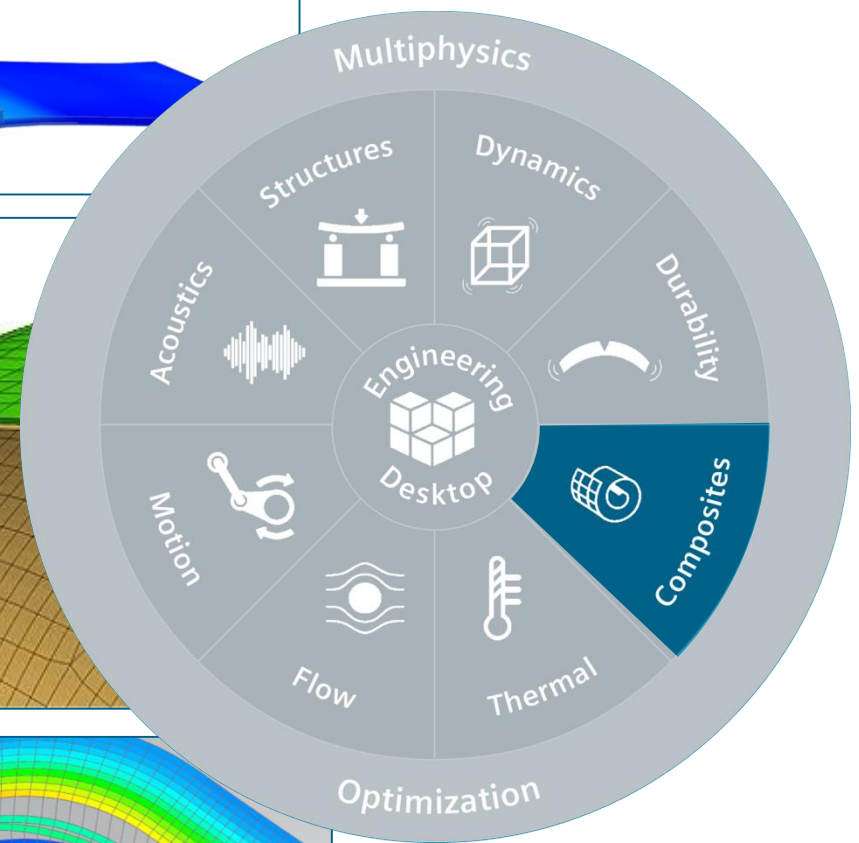
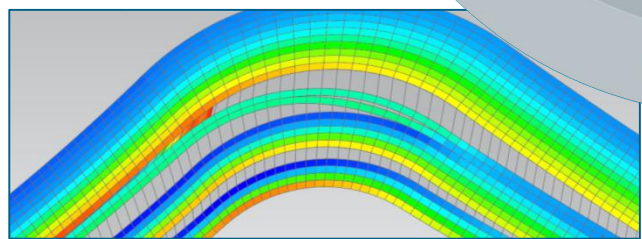
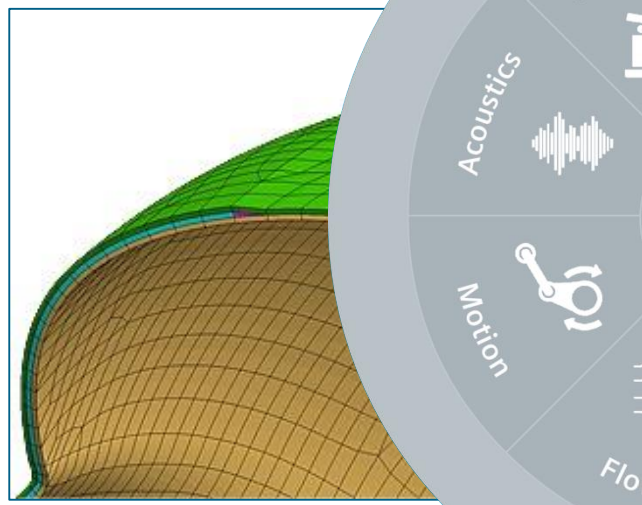
Strength/Stiffness

Buckling and
Post-Buckling
Analysis

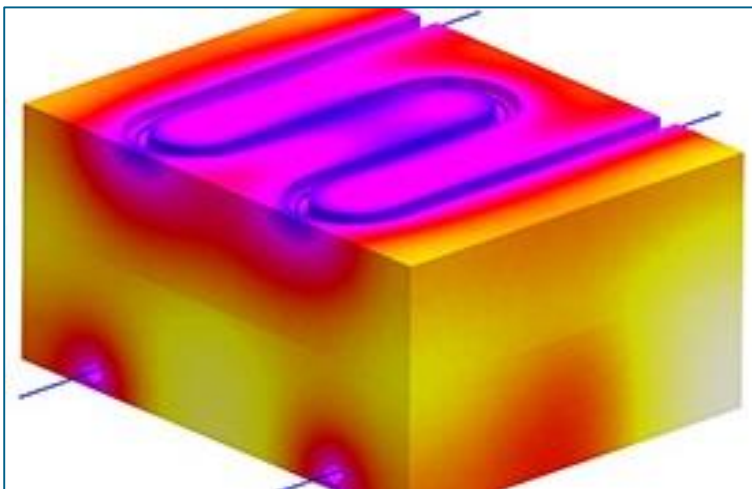
Linear / nonlinear

Progressive
Damage
Simulation

Manufacturing
simulation



Thermal Analysis



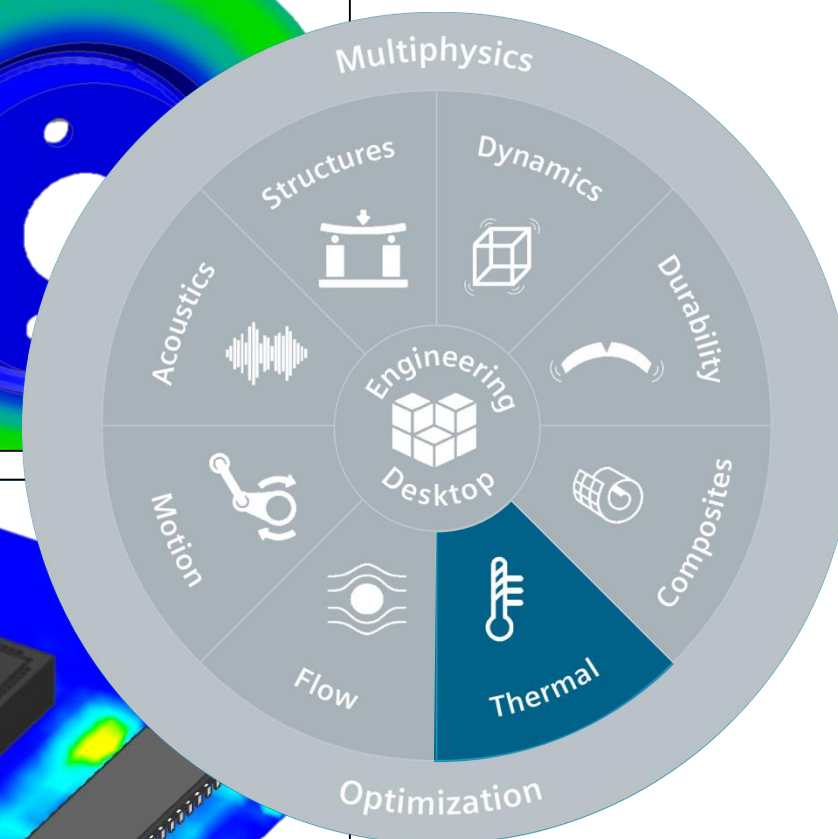
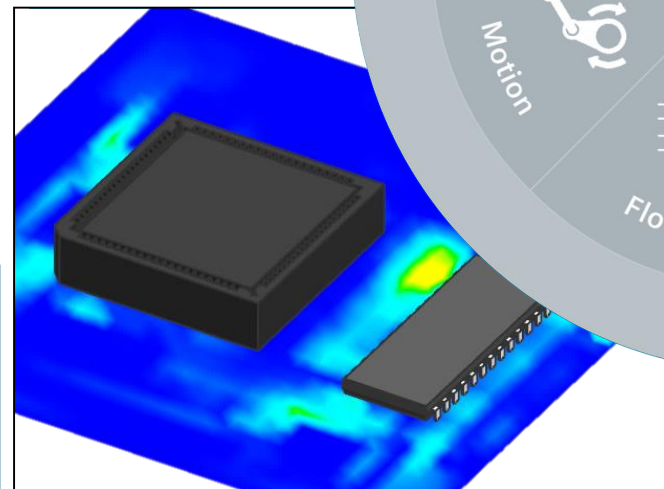
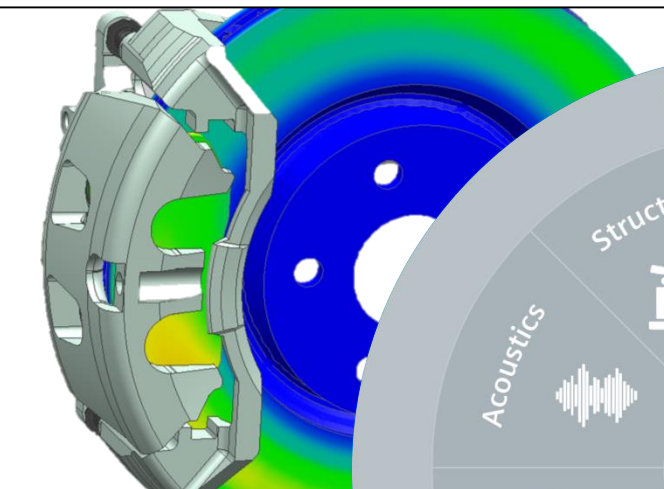
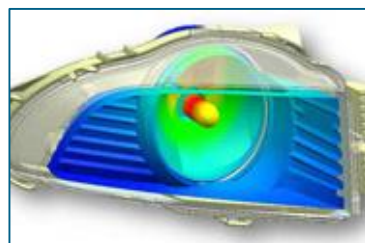
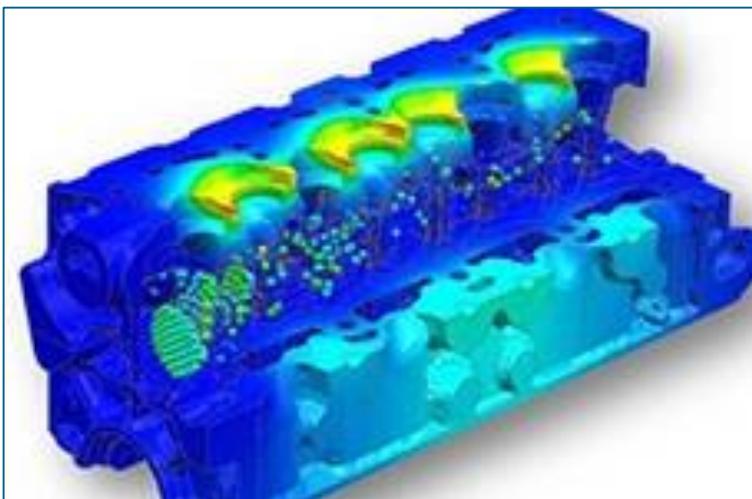
Conduction

Convection

Conjugate heat transfer

Radiation

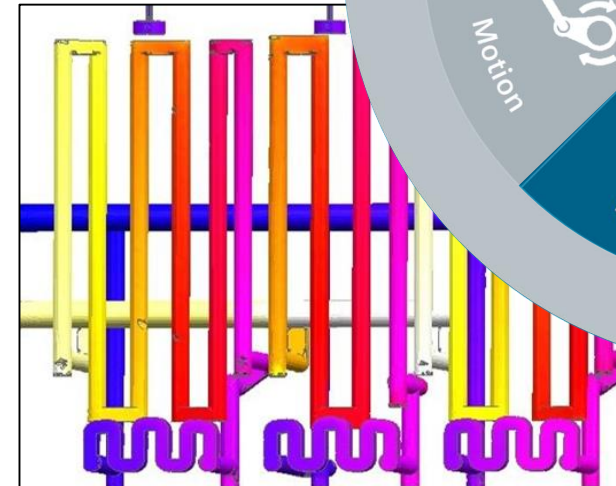
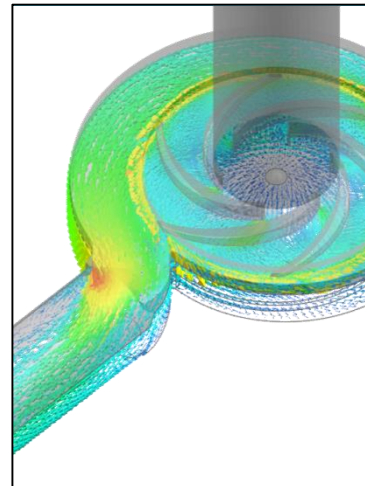
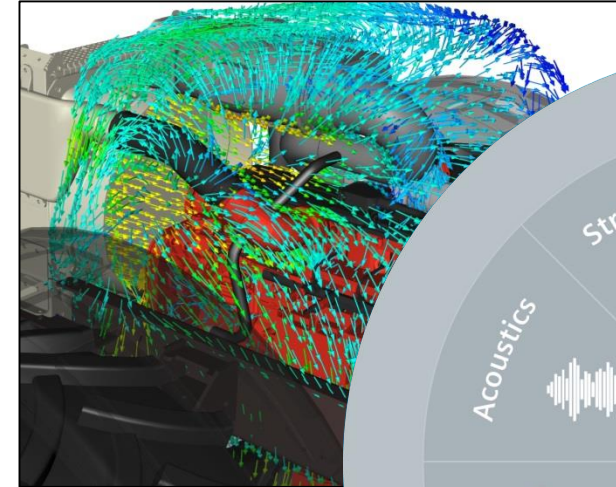
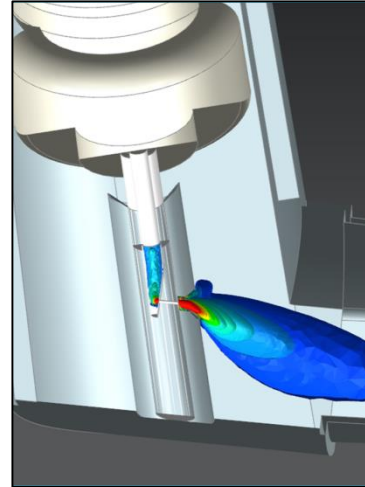
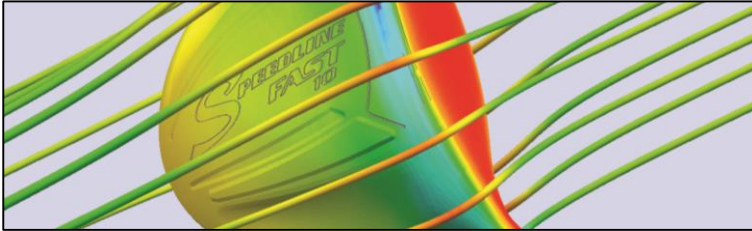
Couples with SC Flow



Specialty Modules for:

- Space Systems Cooling
- Electronic Systems Cooling

Fluid Dynamics Analysis



Compressible

Incompressible

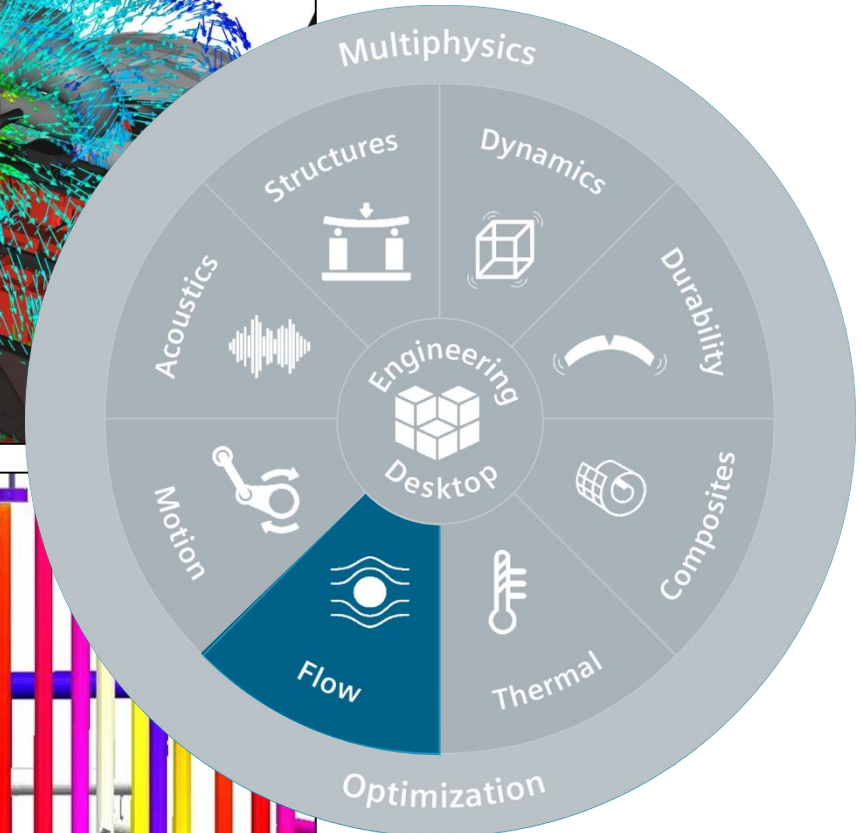
Non-Newtonian

Mixing Planes

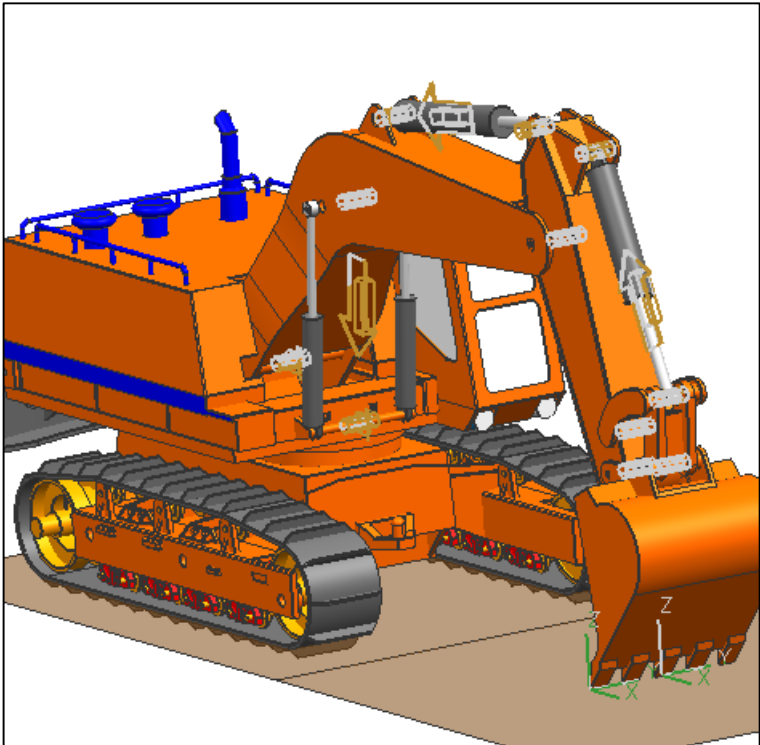
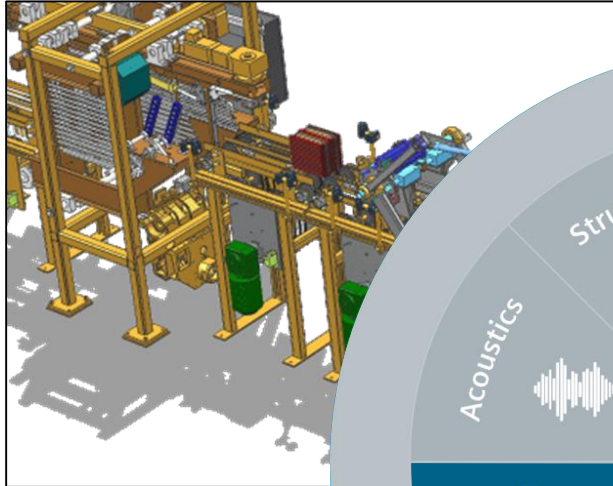
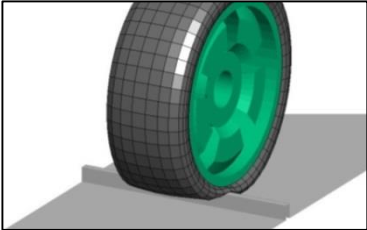
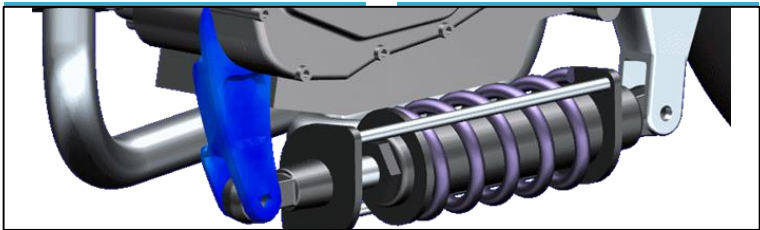
Multiple RFRs

2-Phase, Mixtures, Particles

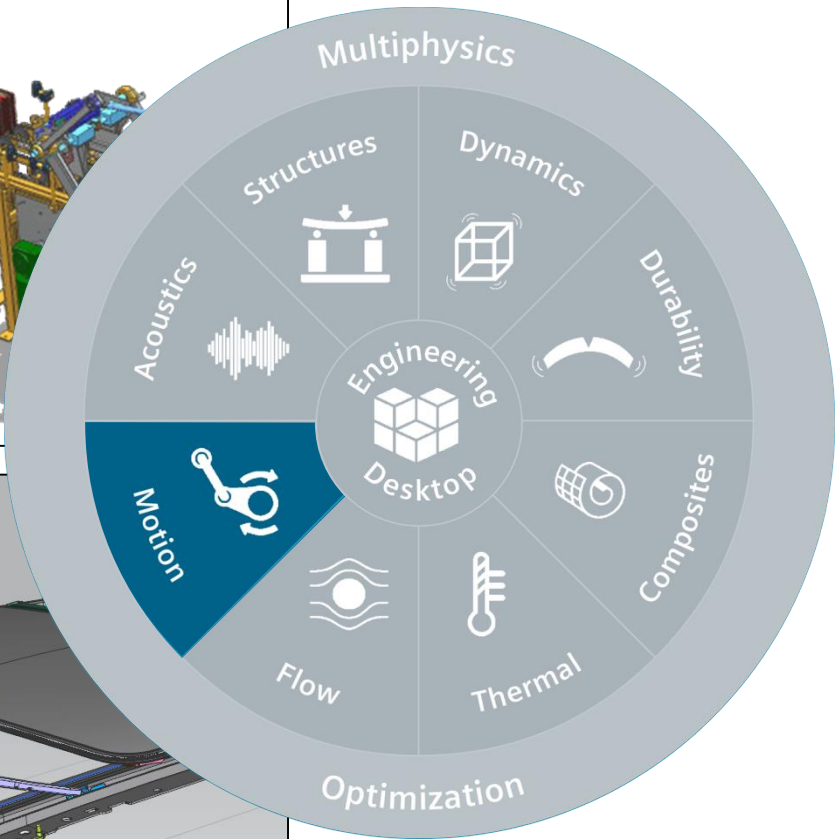
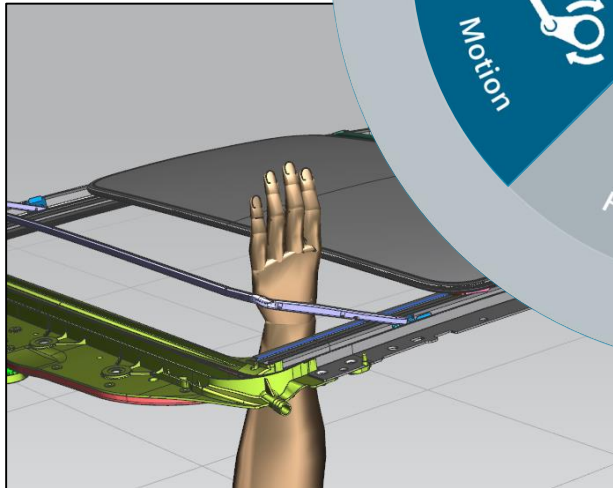
Couples w/SC Thermal



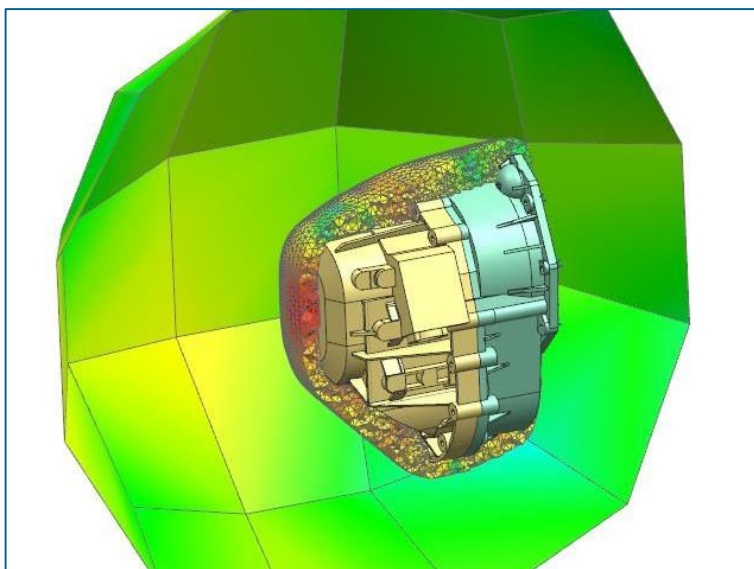
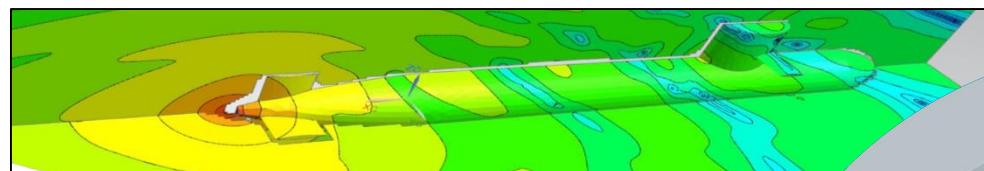
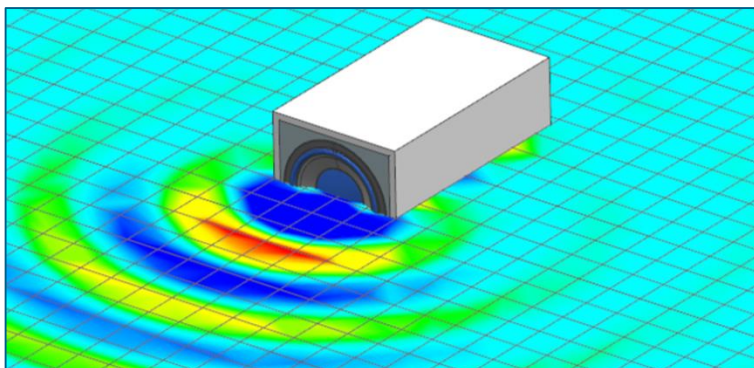
Motion Analysis



- Rigid body
- Flexible body
- Tire models
- Co-simulation with controls
- Interference checking
- Transmissions



Acoustic Analysis



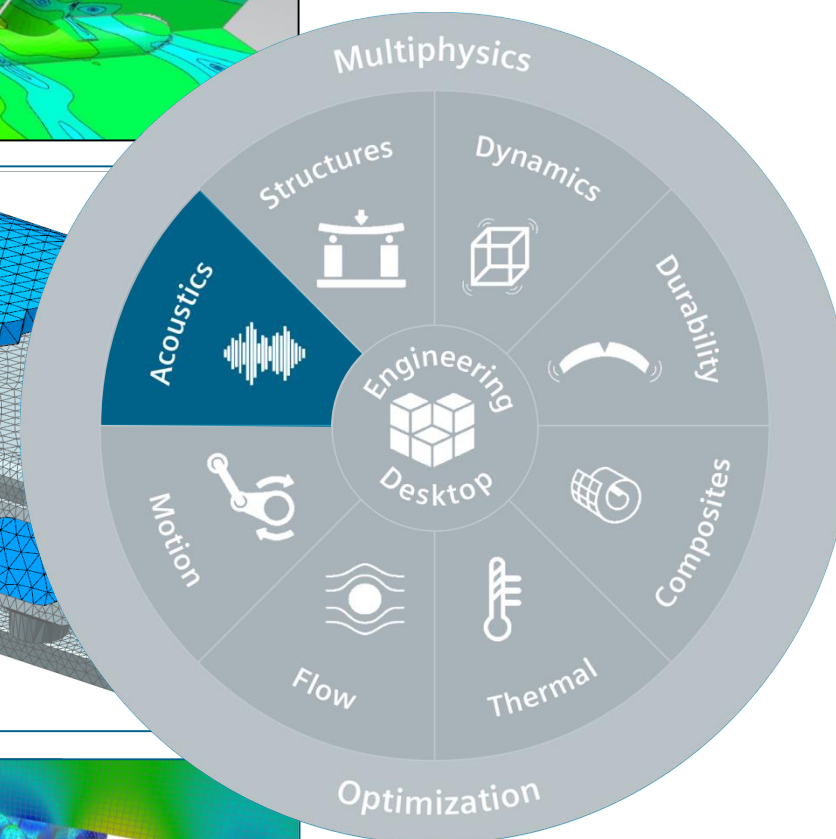
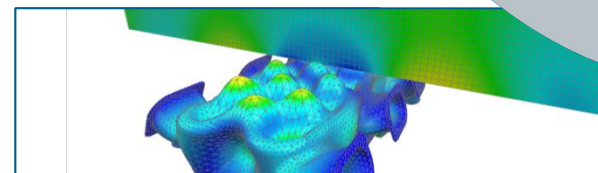
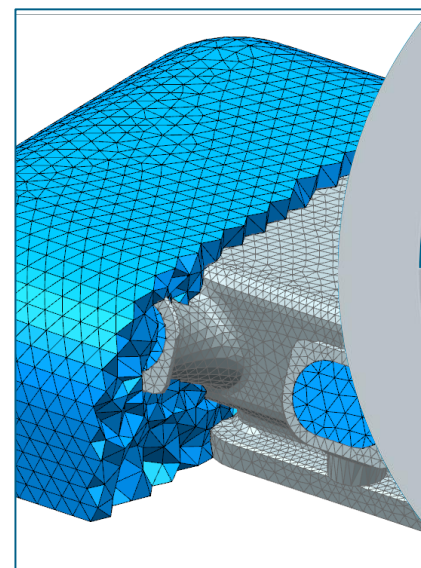
Noise radiation

Transmission
loss

Enclosures

Acoustic
scattering

Acoustics
modeling



Multiphysics Analysis



Thermal-mechanical

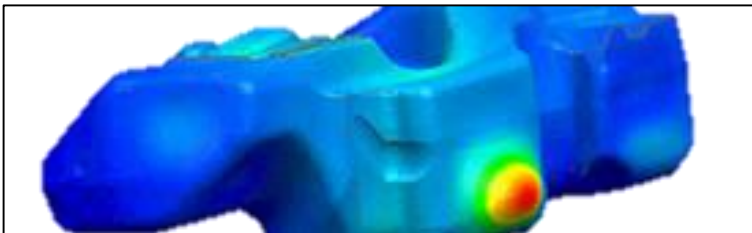
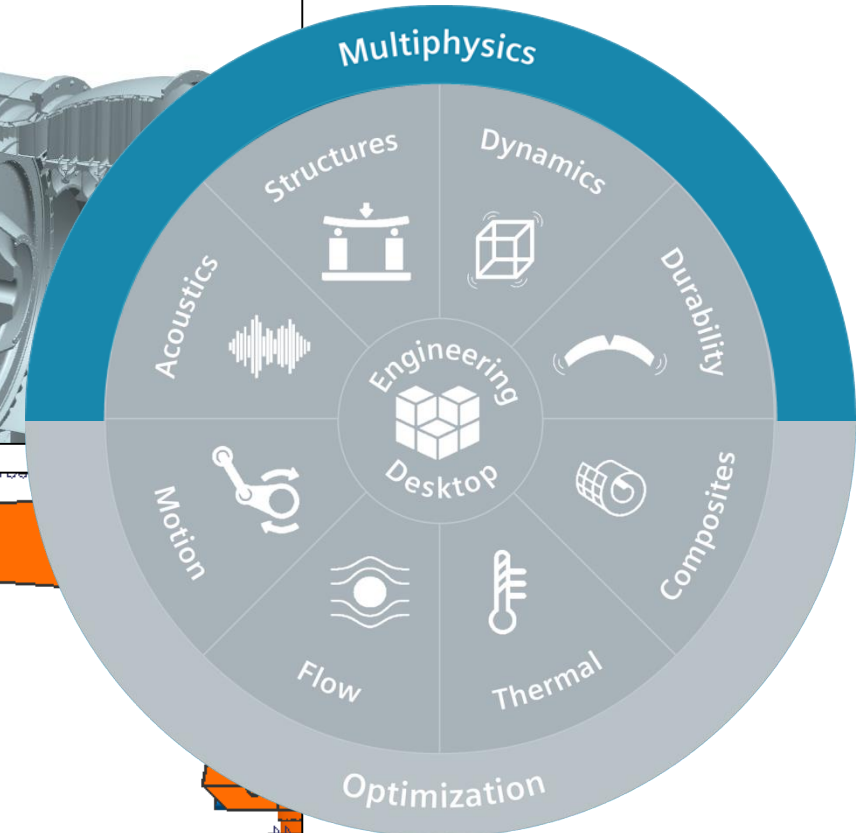
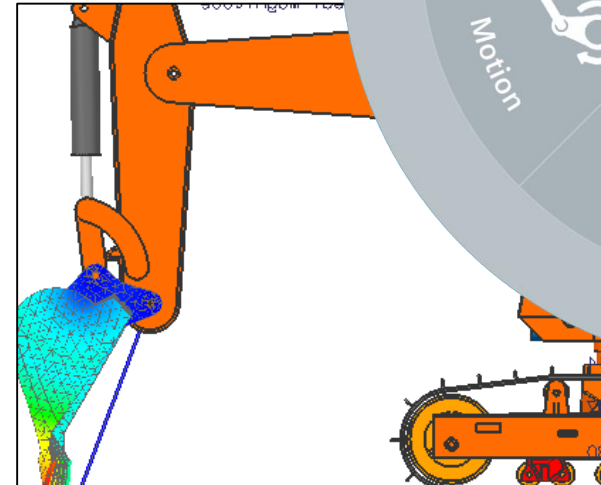
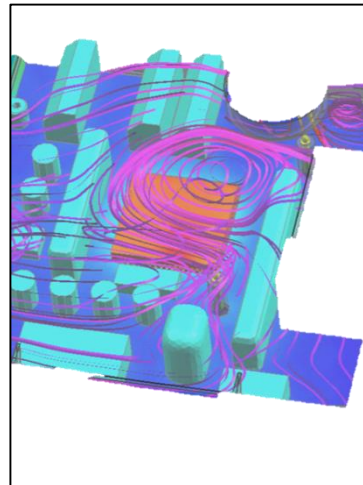
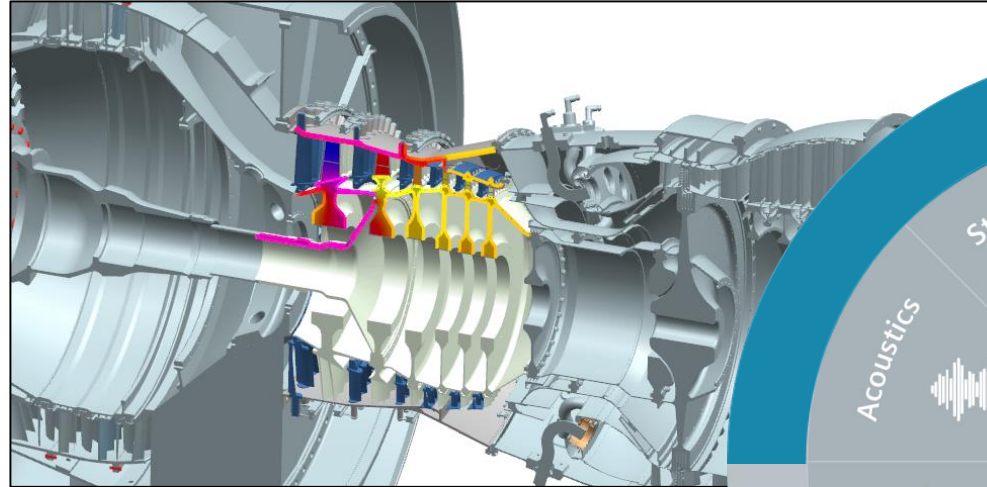
Thermal-fluid

Fluid-structural

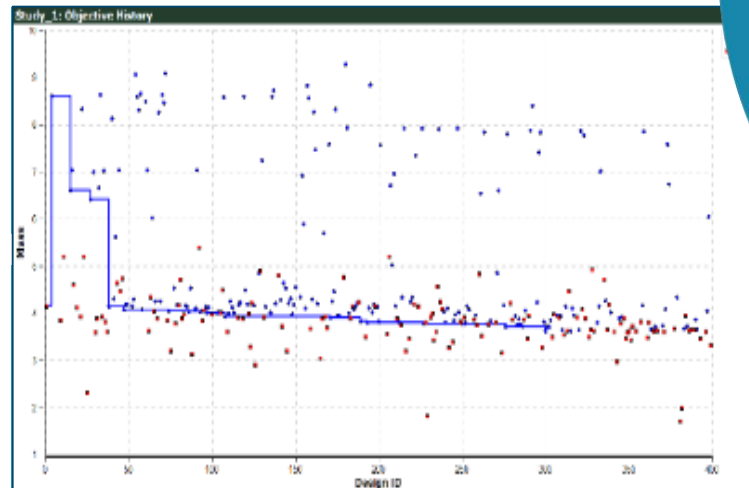
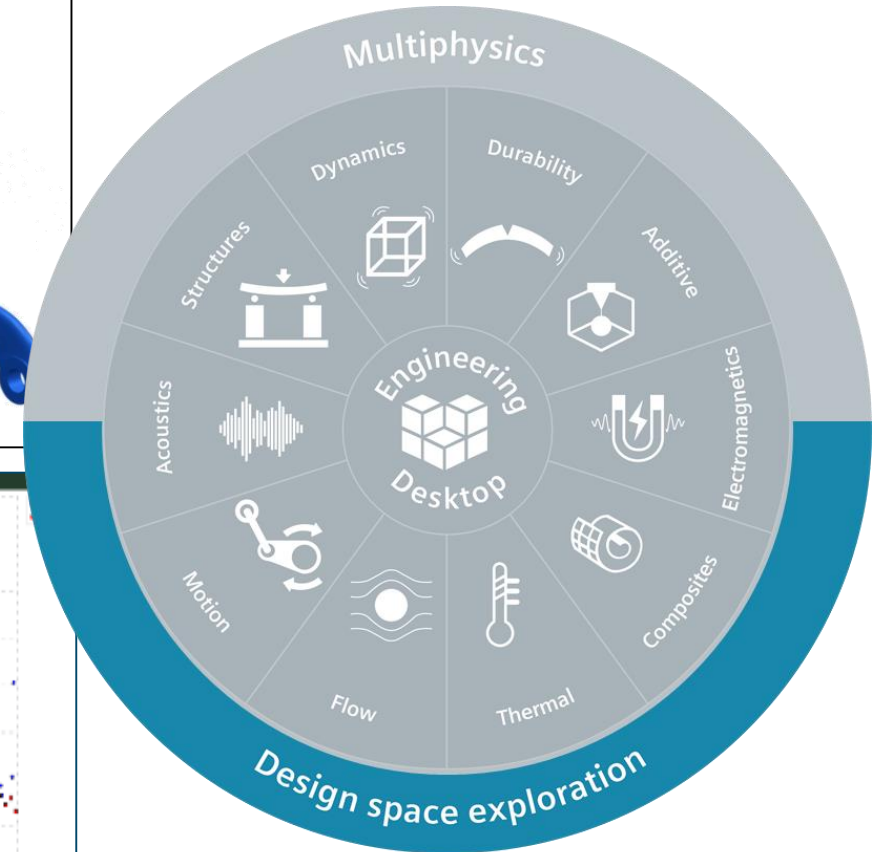
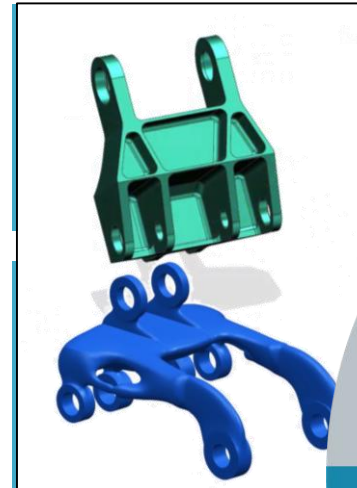
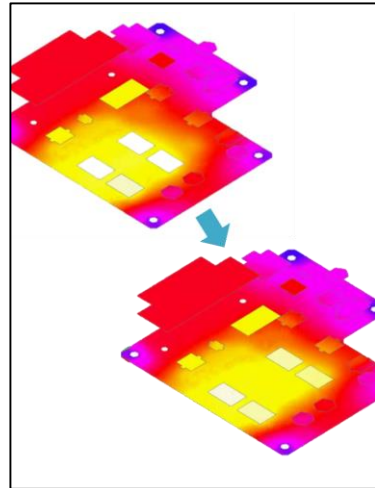
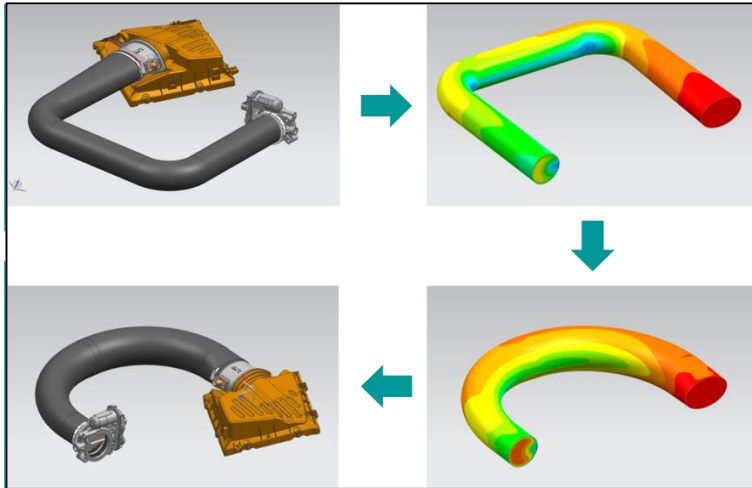
Vibro-acoustic

Aero-vibro-acoustic

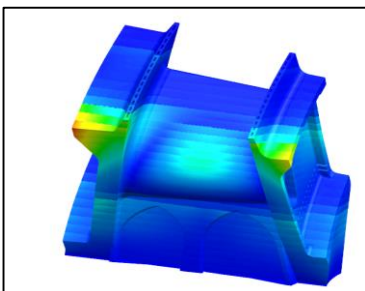
Motion-structural



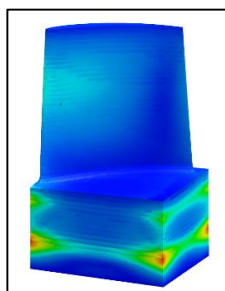
Design Space Exploration



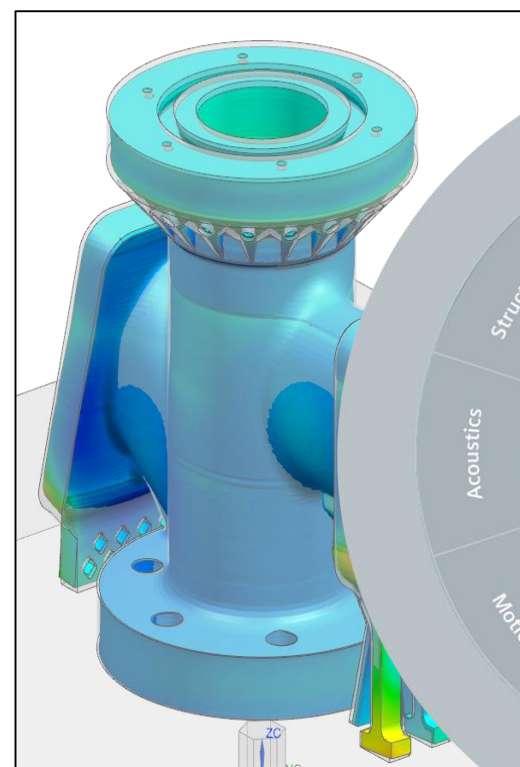
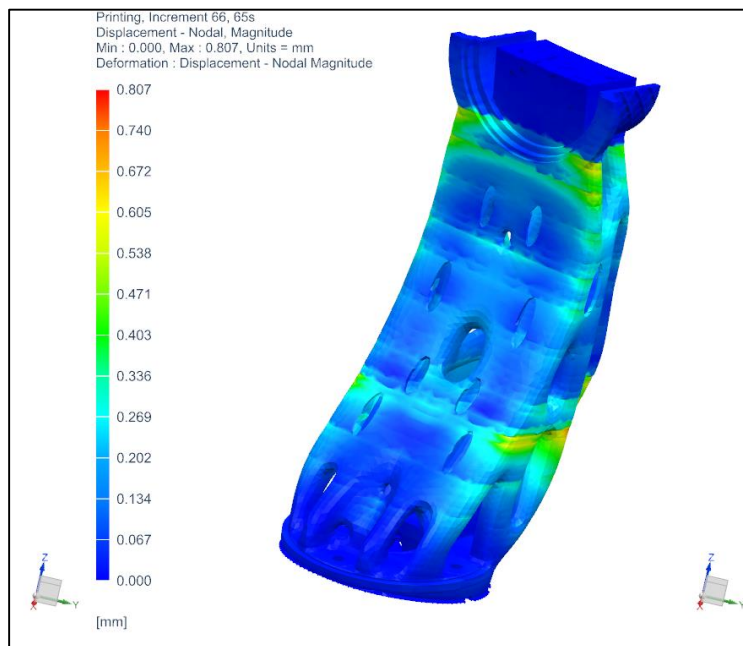
Design Space Exploration
Topology Optimization
Geometry Optimization
FE parameter Optimization



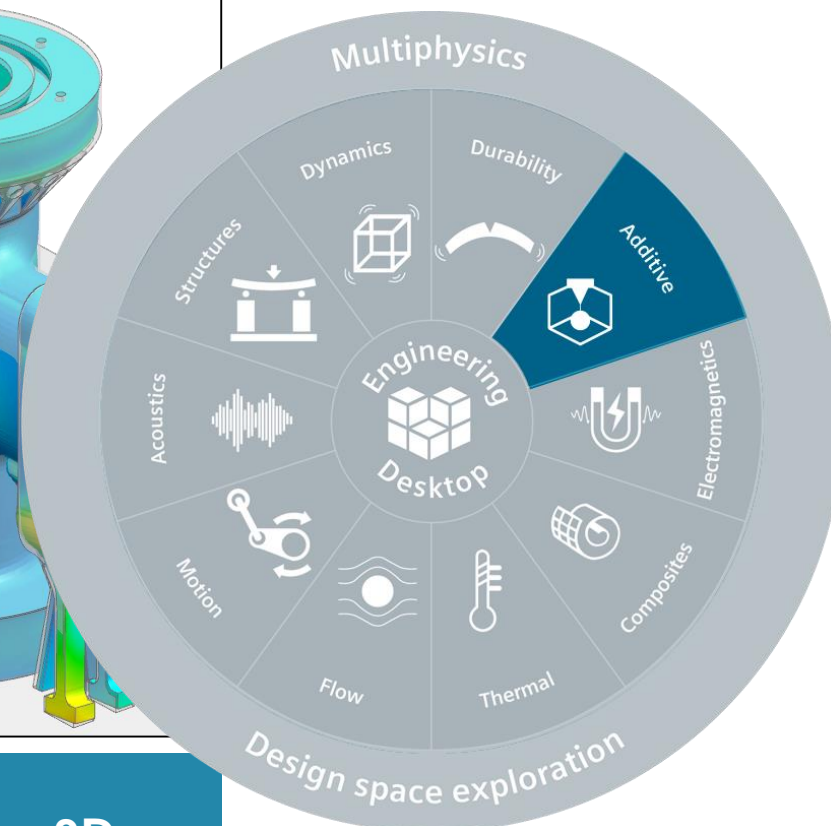
**NX AM integrated
solution**



**Simulate
printing
process**
**Predict thermal
distortion**
**Allow
compensation
and print right
first time**



Simcenter 3D



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 |
| SC30601 | Simcenter 3D Aerostructure Environment |
| SC30522 | Simcenter 3D Laminate Composites |
| SC30560 | Simcenter 3D Advanced Fluid Modeling |
| SC30620 | Simcenter 3D Meshing for Acoustics |
| SC30504 | Simcenter 3D Rotor Modeling |
| SC30604 | Simcenter 3D Environment for Ray Acoustics |
| Design Space Exploration | |
| SC30610 | Simcenter 3D Design Space Exploration |
| Additive Manufacturing | |
| SC40110 | Simcenter 3D AM Solver Add-On |

| Product ID | Product Name |
|-----------------------|--|
| Thermal/Flow | |
| SC30507 | Simcenter 3D Thermal |
| SC30508 | Simcenter 3D Flow |
| SC30515 | Simcenter 3D Advanced Thermal |
| SC30516 | Simcenter 3D Advanced Flow |
| SC30537 | Simcenter 3D Thermal/Flow DMP |
| SC30517 | Simcenter 3D Space Systems Thermal |
| SC30519 | 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 |
| NXN004 | Simcenter Nastran Dynamic Response |
| NXN010 | Simcenter Nastran DMP |
| | Simcenter Nastran Superelement |
| | Simcenter Nastran DMAP |
| | Simcenter Nastran Aero- Elastic |
| | Simcenter Nastran RDMODES |
| | Simcenter Nastran Reduced Representations |
| NXN015 | Simcenter Nastran Advanced Acoustics |
| NXN016 | Simcenter Nastran Topology Optimization |
| 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 Motion 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 |
| SC40580 | Simcenter 3D Flexible Pipe EC&WH option |
| SC40590 | Simcenter 3D Flexible Pipe Simulation for EC&WH |

MOST but not yet ALL Products are Token Enabled



Simcenter 3D Motion Add-Ons

- SC30586 Simcenter Motion CD Tire – Royalty
- SC30587 Simcenter Motion TNO MF Tire – Royalty
- SC30588 Simcenter Motion TNO MF Swift Tire – Royalty
- SC30592 Simcenter Acoustics ABEM – Royalty
- SC30573 Simcenter Motion Solver 4-Node – Royalty
- SC30591 Simcenter 3D Motion Hydrodynamic Bearing – Royalty
- NX30557 NX Motion – CAD ([Instead ... Use Simcenter Motion](#))

Simcenter 3D Acoustics Add-Ons

- SC30592 Simcenter 3D Acoustics ABEM – Royalty
- SC30597 Simcenter 3D Ray Acoustics Solver – Royalty
- SC30598 Simcenter 3D Acoustics Time Domain BEM Solver – Royalty

Simcenter Nastran Add-Ons

- NXN007 Simcenter Nastran Optimization – Royalty
- NXN014 Simcenter Nastran Rotor Dynamics – Royalty

Simcenter Low-Frequency and High-Frequency Electromagnetics ([Planned late 2020](#))

- SC30710 Simcenter 3D Low-Frequency Electromagnetic Solver
- SC30711 Simcenter MAGNET Solver
- SC30712 Simcenter MAGNET Thermal Solver
- SC30720 Simcenter 3D High Frequency Electromagnetics Pre-/Post-
- SC30721 Simcenter 3D High Frequency Electromagnetic Solver

All Simcenter Multimech Products ([Planned late 2020](#))

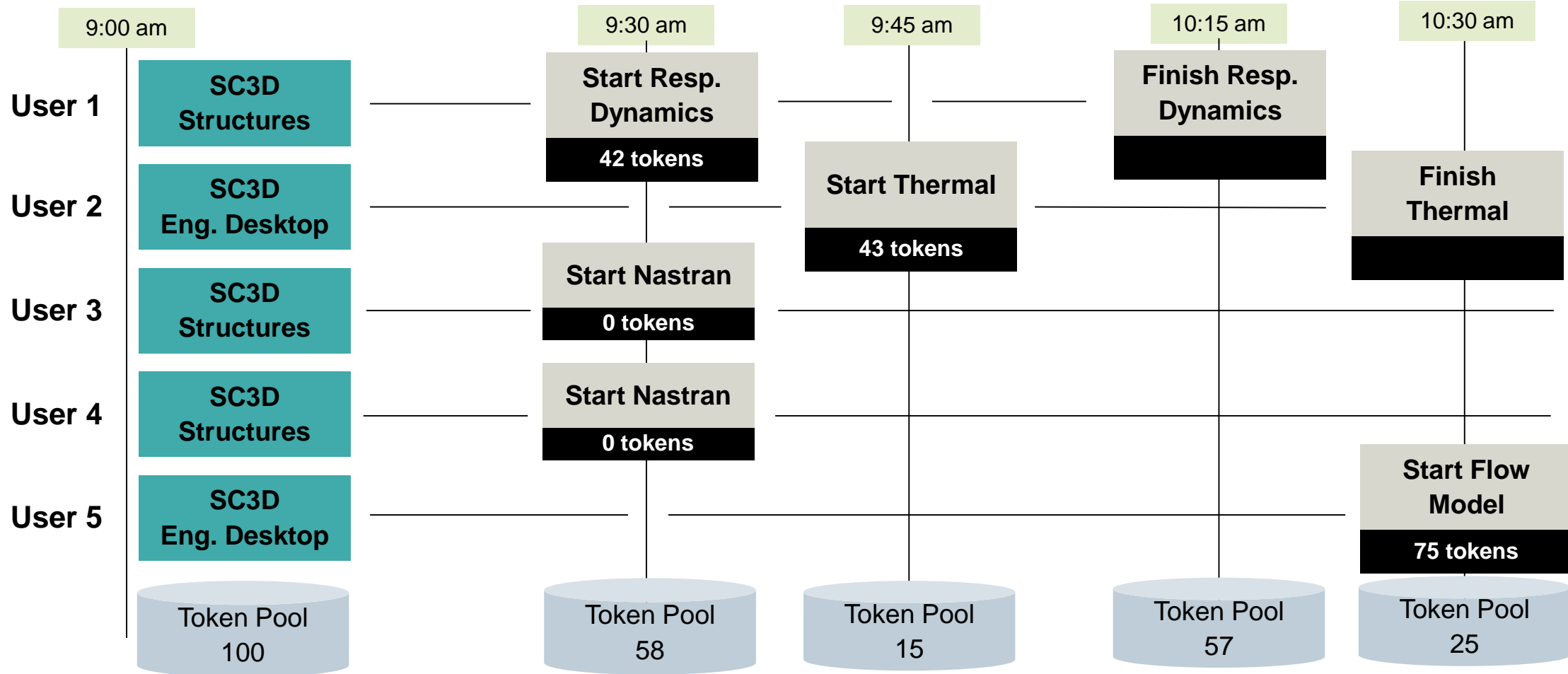
All LMS SEA+ (Statistical Energy Analysis) Products - Royalty

Third-party capabilities integrated into Simcenter 3D often have Royalties associated with their use that make support of Value-based Licensing challenging. Some of these may eventually be supported but most will not.

Any such modules are **still available** through traditional module-based licensing by perpetual license, subscription, or rental.

Other products not yet supported are the results of recent acquisition by Siemens. In these cases, support is planned but has simply not yet been implemented in the software.

SC3D Token Licensing Example



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

- Thermal
- Flow
- Space System Thermal
- Electronic Systems Cooling
- Response Simulation
- Laminate Composites
- Advanced 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 | | |
| SC30507 | Simcenter Thermal | 8 | 3 | 0 | 4 | 8 | |
| SC30508 | Simcenter Flow | 4 | 3 | 0 | 2 | 4 | |
| SC30515 | Simcenter Advanced Thermal | 0 | 0 | 0 | 4 | 4 | |
| SC30516 | Simcenter Advanced Flow | 0 | 0 | 0 | 2 | 2 | |
| SC30517 | Simcenter Space Systems Thermal | 0 | 1 | 0 | 0 | 1 | |
| SC30519 | Simcenter Electronic Systems Cooling | 0 | 1 | 0 | 0 | 1 | |
| SC30521 | Simcenter Response Dynamics | 0 | 0 | 5 | 0 | 5 | |
| SC30522 | Simcenter Laminate Composites | 0 | 0 | 5 | 0 | 5 | |
| SC30560 | Simcenter Advanced Fluid Modeling | 0 | 2 | 0 | 0 | 2 | |
| | | | | | | 32 | 500 |

Cost Ratio Tokens/Modules= 43%

Analysis:

9 Applications used throughout the week

Module-based Licensing

- 32 separate licenses would be required

Value-Based Licensing

- 500 tokens would cover usage

Almost 60% Cost Savings using Value Based Licensing

Customer Usage Example

Scenario: Medium # Users, Few Applications

Aerospace Customer

- Has 12 licenses of Simcenter Engineering Desktop

Each may have the 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 | 1300 |

Cost Ratio Tokens/Modules= 159%

Analysis:

2 Applications used throughout the week

Module-based Licensing

- 16 separate licenses would be required

Value-Based Licensing

- 1300 tokens would cover usage

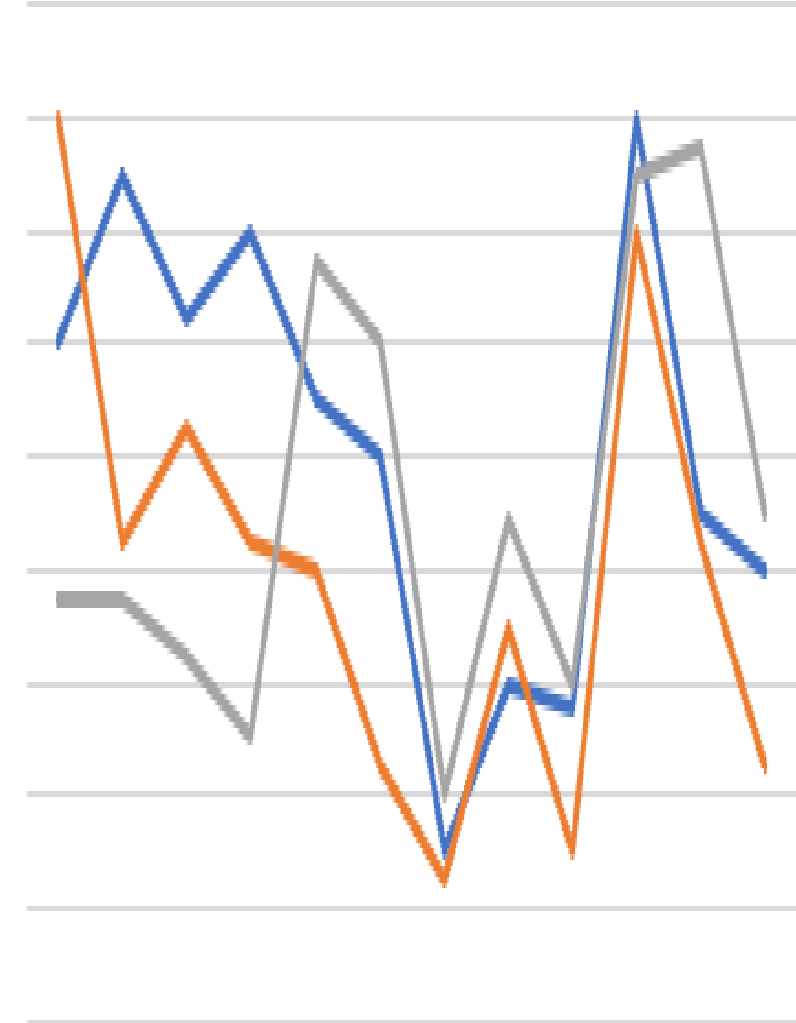
Module-based Licensing is 60% more cost effective

Estimating 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 ATA Engineering
3. We 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, i.e., potential changes to the types and numbers of modules needed.



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, such as NX, Amesim or STAR-CCM+?

- 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

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

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



FAQ – Value Based Licensing



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.**
- **Simcenter 3D Structures, one of the base products, includes Engineering Desktop and Nastran Basic and is a very cost-effective way to access Nastran Basic and would consume no tokens when doing so.**

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 very cost-effectively.**

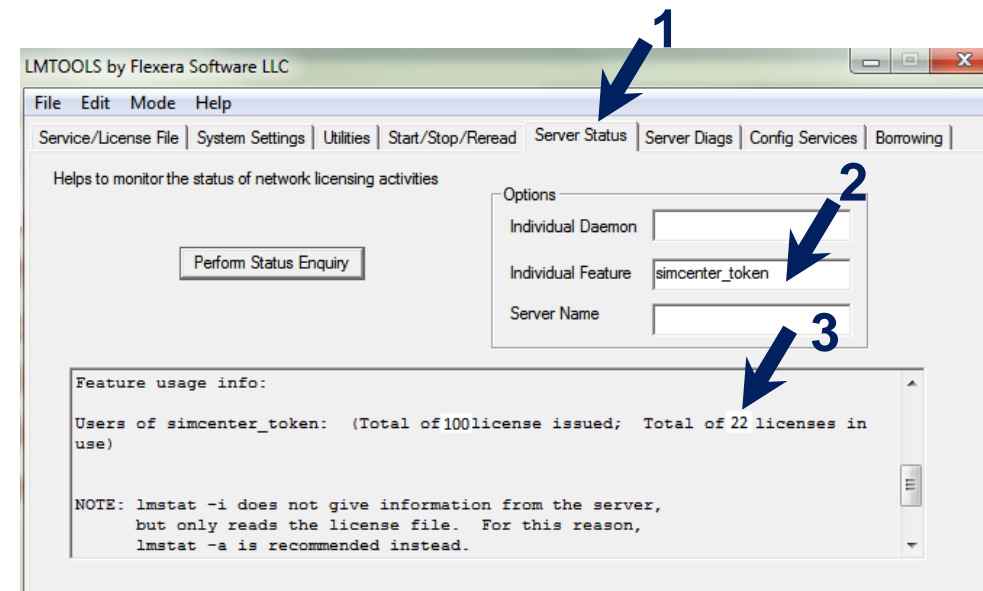
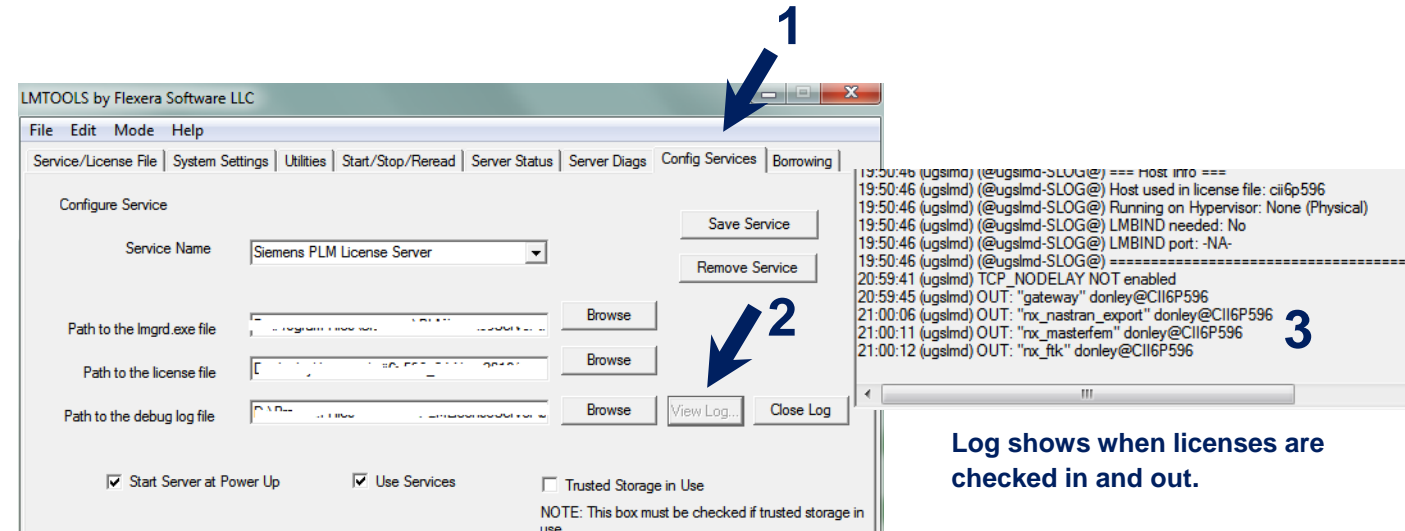


FAQ – Value Based Licensing

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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Ingenuity for life



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THANK YOU!