

EDISON UI Scenario

Education-research Integration through Simulation On the Net

EDISON CFD 

UI (Information Architecture) Scenario
Focused on Workflow Definition (v2.2)

David J. Lim

June 7th, 2011

Contents

- ▶ **Vocabulary**
- ▶ **Overall Information Architecture**
- ▶ **[TOP] My EDISON**
- ▶ **[TOP] Simulations**
 - ▶ [CS1] Creating simulation ‘New Sim...’
 - ▶ Simulations > “New Sim...”
 - ▶ [CS2] Search and reuse simulation
 - ▶ Simulations > Search > “Reuse this”
 - ▶ [CS3] Navigate and reuse simulation
 - ▶ Simulations > Navigate > “Reuse this”
- ▶ **[TOP] Contents**
 - ▶ [CS4] Search tool and creating
 - ▶ Contents > Simulation Tool > Search > “New Sim...”
 - ▶ [CS4] Navigate tool and creating
 - ▶ Contents > Simulation Tool > Navigate > “New Sim...”

Vocabulary

- ▶ **Case (or simulation case)**
 - ▶ A simulation instance which is to be executed in resource with a specific parameter set.
- ▶ **Contents**
 - ▶ Digital artifacts contained, managed, and provided in EDISON portal, including simulation tools, documents, online presentations, lecture and seminar notes, tutorials, manuals, and so on.
- ▶ **Model (or structure model)**
 - ▶ Means a structure model that is to be translated into mesh, simulated and analyzed. For example, in CFD, there are 2D airfoils, 3D cylinders, and so on.
- ▶ **Model Type**
 - ▶ There are popular structure model types such as 2D airfoil, 3D airfoil, 2D cylinder, 3D cylinder, and so on.
- ▶ **Postprocessor**
 - ▶ Software tools to modify or visualize the simulation result. In most cases, a postprocessor refers a visualization tool.
- ▶ **Preprocessor**
 - ▶ A preprocessor is a software tool to prepare simulation input files, in most cases of CFD – including mesh files. Most of preprocessors are modeling tools and mesh generators in CFD case.
- ▶ **Simulation**
 - ▶ A combination of a simulation workflow, simulation cases, and results. It is the unit for a single ‘simulation request’ action.
- ▶ **Simulation Request**
 - ▶ A message to EDISON middleware which envelopes a set of simulation cases, triggered (sent) by a button click in UI.
- ▶ **Simulation Tool**
 - ▶ A simulation tool is a software to perform the simulation case(s), called as a analyzer or a solver.
- ▶ **Simulation workflow**
 - ▶ A template for simulation case which can be either the combination of ‘pre-simtool-post’, or ‘mesh-simtool-post’.
 - ▶ In any case above, a simulation workflow does not have parameter set

OVERALL INFORMATION ARCHITECTURE

Home Page [P-HOM]: Top Menus

EDISON :: Home

⏪
🗄
✖

Home

My EDISON

Simulations

S-AppStore

Contents

Class

Community

Support

Sitemap

Spotlight

New Edison LOGO 15. May.

e-AIRS, an abbreviation of 'e-Science Aerospace Integrated Research System,' is a virtual organization designed processes in the e-Science environment.

New Edison LOGO 15. May.

e-AIRS, an abbreviation of 'e-Science Aerospace Integrated Research System,' is a virtual organization designed processes in the e-Science environment.

Videos

New Edison LOGO

New Edison LOGO

New Edison LOGO

일정 더 보기 >>

April

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

15. May.
e-AIRS, an abbreviation of 'e-Science Aerospace Integrated Research System,'

15. May.
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연론 소식 더 보기 >>

New Edison LOGO 15. May.

e-AIRS, an abbreviation of 'e-Science Aerospace Integrated Research System,' is a virtual organization designed to support aerospace engineering

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내부 소식 더 보기 >>

New Edison LOGO 15. May.

e-AIRS, an abbreviation of 'e-Science Aerospace Integrated Research System,' is a virtual organization designed to support aerospace engineering

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Currently, e-AIRS can handle both the computational and experimental aerodynamic research on the e-Science infrastructure. In detail, users can conduct full CFD (Computational Fluid Dynamics) research processes, request wind tunnel experiments,

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Currently, e-AIRS can handle both the computational and experimental aerodynamic research on the e-Science infrastructure. In detail, users can conduct full CFD (Computational Fluid Dynamics) research processes, request wind tunnel experiments,

Username:

Password:

Login

Register

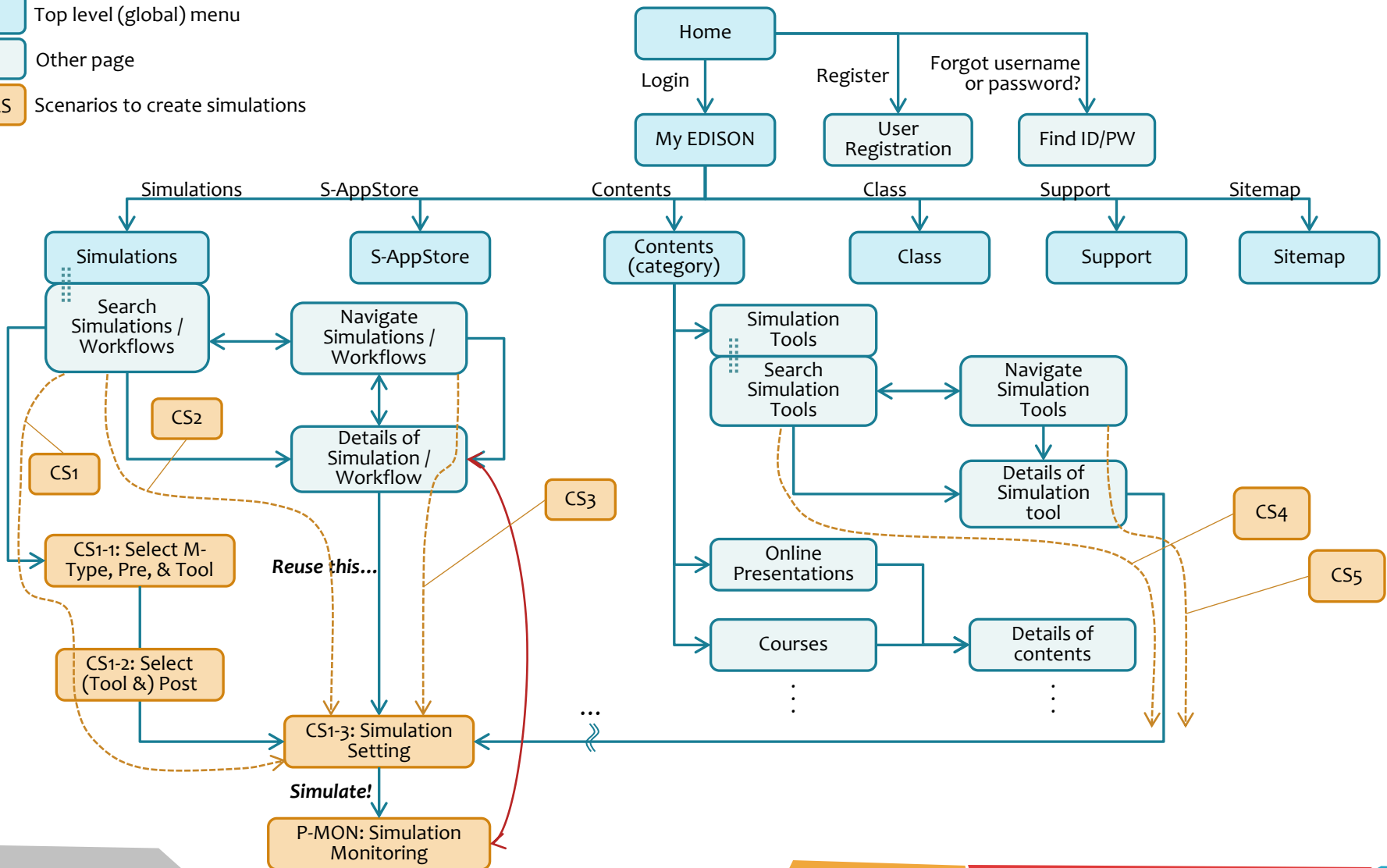
[Forgot username or password?](#)

e-AIRS, an abbreviation of 'e-Science Aerospace Integrated Research System.'

Copyright © EDISON Supported by KISTI

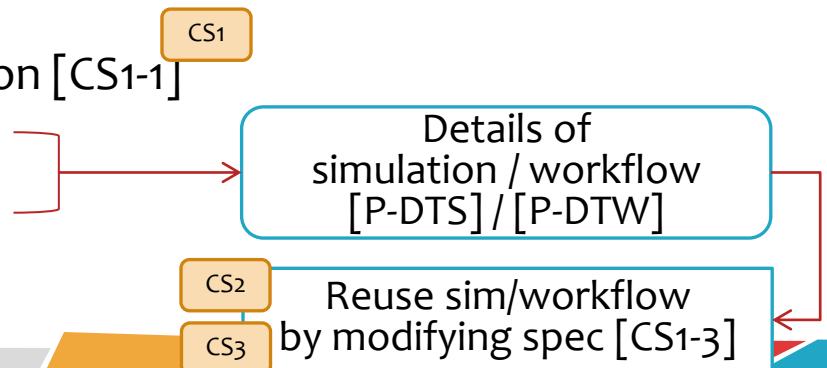
Overall Information Architecture

- Top level (global) menu
- Other page
- CS Scenarios to create simulations



Menu Structure (1)

- ▶ **Top (Tab) Menus are global**
- ▶ **Home (Home page) [P-HOM]**
 - ▶ Event calendar, News, Notice(Announcement), Featured articles and contents, and so on.
 - ▶ Login → My EDISON [P-MED]
 - ▶ Register → User Registration [P-REG]
 - ▶ Forgot id/pw → Find ID / PW [P-FND]
- ▶ **My EDISON [P-MED]**
 - ▶ ... to be designed (basic concept is the same as former version)
 - ▶ Portlets are provided to bring information customized to the user
- ▶ **Simulations [P-SIM]**
 - ▶ New simulation → Create Simulation [CS1-1]
 - ▶ Search simulations/workflows
 - ▶ Navigate simulations/workflows



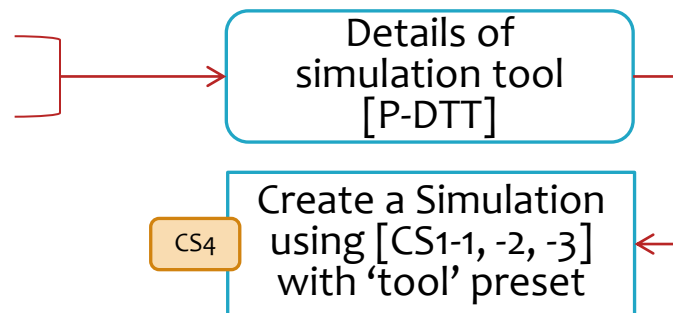
Menu Structure (2)

- ▶ **S-AppStore (Science AppStore) [P-SAP]**

- ▶ ... *to be designed*
- ▶ Tool installation
- ▶ Tool development
- ▶ Tool management
- ▶ ...

- ▶ **Contents [P-CON]**

- ▶ Simulation Tools
 - ▶ Search simulation tools
 - ▶ Navigate simulation tools
- ▶ Documents
- ▶ Online presentations
- ▶ ...



Menu Structure (3)

- ▶ *... to be designed*
- ▶ **Class [P-CLS]**
- ▶ **Community [P-CMT]**
- ▶ **Support [P-SPT]**
- ▶ **Sitemap [P-MAP]**

Home > Login > My EDISON

My EDISON >

[TOP] MY EDISON [P-MED]

My EDISON [P-MED]

EDISON :: My EDISON

Home My EDISON Simulations S-AppStore Contents Class Community Support Sitemap

David J. Lim [LOGOUT](#)
(david.j.lim@kisti.re.kr)

Profile / Information

- » Org: KISTI
- » New msgs: 5
- » Another item...
- » More...

My Simulations

- 2D Fast Flow
- 3D Severe Pressure
- 3D Turbulence Crack
- 2D Big Swing

EDISON News

My Tools

Community News

- C-CFD 커뮤니티**
[TOOL] Turbo Transformer - 2011-02-14
- CFD020 램**
[Lab] 중요 수업공지 - 2011-02-15

need to design useful portlets more.

Simulations >

[TOP] SIMULATIONS

Scenarios in Simulations menu

- ▶ Clicking ‘Simulations’ tab menu leads to ‘Search Simulations [P-SIM]’
- ▶ [CS1] Creating Simulation: ‘New Sim...’
 - ▶ Simulations → Click ‘New Sim...’ link
- ▶ [CS2] Search & Reuse Simulation
 - ▶ Search Simulations → Simulation Details → Simulation Monitoring → Postprocessing
- ▶ [CS3] Navigate & Reuse Simulation
 - ▶ Navigate Simulations → Simulation Details → Simulation Monitoring → Postprocessing

Simulations tab > “New Sim...” button (command)

[CS₁] CREATING SIMULATION: SIMULATIONS > “NEW SIM...”

Simulations [P-SIM] = Search Simulations

The screenshot shows the EDISON Simulations web interface. At the top, there is a navigation menu with links for Home, My EDISON, Simulations (selected), S-AppStore, Contents, Class, Community, Support, and Sitemap. Below the menu, there are links for [Navigation] and [New Sim...]. A blue callout bubble points to the [New Sim...] link with the text "Click to create new simulation".

The main content area is divided into two sections. On the left is the "Search Simulations" section, which includes a search bar with the placeholder text "Type search key words..." and a "Search" button. Below the search bar are several filters: "Search scope" with checkboxes for "My simulations" and "Public simulations"; "Show me" with checkboxes for "Simulations" and "Simulation Workflows"; and "Sort by" options for "Title", "Date", and "Rank".

Below the filters is a table of search results:

1	My simulation 0175 – vertical limit	description: ...	20 cases done of 35
2	Instrument surface resonance – Violin A296	description: ...	200 cases done of 240
3	My 3D Airfoil 203	description: ...	13 cases done of 13
4	My 2D Cylinder 451	description: ...	2 cases done of 2
...			

At the bottom of the search results, there are pagination links: 1 [2] [3] [4] [5] ... [Next →] [Last →].

On the right is the "Simulation Details" section, which contains a "View Details" button and a large empty box with the text "Select a simulation...".

CS1-1: Select M-Type & Pre & Tool

Simulation Title:

Model Type
1D
2D Airfoil
3D Airfoil
2D Cylinder
3D Cylinder
...

Preprocessor
Preprocessor 1
Preprocessor 2
Preprocessor 3
...
➤ Upload local model
➤ Use existing model in server

Simulation Tool
Simulation tool ABC
Simulation tool 123
Simulation tool Alpha
Simulation tool Beta
Simulation tool Boom
...

NEXT >

Use Problem Filter

[2D, 3D] & [Unstructured] &
 [[Viscous flow – [Laminar, Turbulence] | Inviscid flow] | Steady]

Preprocessor details

➤ **Title: Preprocessor 2**
 ➤ Profile: ...
 ➤ Description: ...

Simulation tool details

➤ **Title: Simulation tool ABC**
 ➤ Profile: ...
 ➤ Description: ...

Choose type of the problem :

- 2D
 - Structured solver
 - Unstructured solver
 - Viscous flow
 - Compressible flow
 - Incompressible flow
 - Inviscid flow
 - Steady
 - Unsteady
- 3D
 - Unstructured solver
 - Viscous flow
 - Laminar
 - Turbulence
 - 텍스트 입력
 - k- ω SST
 - LES
 - DES
 - DNS

Apply Reset Cancel

screen shot:

'2D & 3D checkers' could be removed due to '2D & 3D info' in model type

CS1-1: Select M-Type & Pre & Tool

Simulation Title:

A

Model Type

- 1D
- 2D Airfoil
- 3D Airfoil
- 2D Cylinder
- 3D Cylinder
- ...

B

Preprocessor

- Preprocessor 1
- Preprocessor 2
- Preprocessor 3
- ...
- Upload local model
- Use existing model in server

C

Simulation Tool

- Simulation tool ABC
- Simulation tool 123
- Simulation tool Alpha
- Simulation tool Beta
- Simulation tool Boom
- ...

NEXT >

P

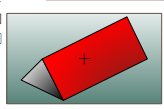
Use Problem Filter

[2D, 3D] & [Unstructured] & [[Viscous flow – [Laminar, Turbulence] | Inviscid flow] | Steady]

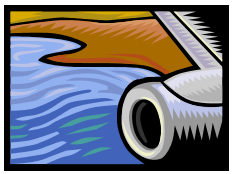
Choose type of the problem :

- 2D
 - Structured solver
 - Compressible flow
- 3D
 - Unstructured solver
 - Incompressible flow
- ...
 - Viscous flow
 - Laminar
 - Turbulence
 - Inviscid flow
 - Steady
 - 텍스트 입력
 - k-ω SST
 - LES
 - DES
 - DNS
 - Unsteady

Preprocessor details

- **Title: Preprocessor 2**
- Profile: ...
- Description: ...
- Screen shot: 

Simulation tool details

- **Title: Simulation tool ABC**
- Profile: ...
- Description: ...
- Screen shot: 

CS1-2: Select (Tool &) Post

Title: My interesting simo1

< PREV

- Model type: 3D Airfoil
- Preprocessor: Preprocessor 2
- Problem filter: yes

[2D, 3D] &
[Unstructured] &
[[Viscous flow -
[Laminar, Turbulence] |
Incid flow] | Steady]

Simulation Tool

Simulation tool ABC

Simulation tool 123

Simulation tool Alpha

Simulation tool Beta

Simulation tool Boom

...



Postprocessor

Postprocessor pst1

Postprocessor pst2

Postprocessor pst3

Postprocessor pst4

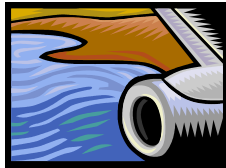
Postprocessor pst5

...

NEXT >

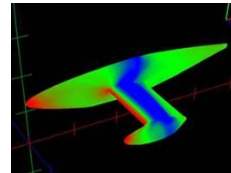
Simulation tool details

- Title: Simulation tool ABC
- Profile: ...
- Description: ...
- Screen shot:



Postprocessor details

- Title: Postprocessor pst4
- Profile: ...
- Description: ...
- Screen shot:



Can put [CS1-1] and
[CS1-2] pages on 1 page?
If can, it'll be better.

CS1-3: Simulation Setting

➤ Title: My interesting sim01

Simulate! →

Save workflow

➤ Profile:

- Created by: User1
- Creation Date & Time: 6/1/2011 5:53:17 PM
- ...

➤ Description

Describe your simulation here ...

➤ Simulation Model: None...

Set model ...

- Model Type: 3D Airfoil [Change ...]
- Preprocessor: Preprocessor 2 [Change ...]

➤ Simulation Tool: Simulation tool ABC [Change ...]

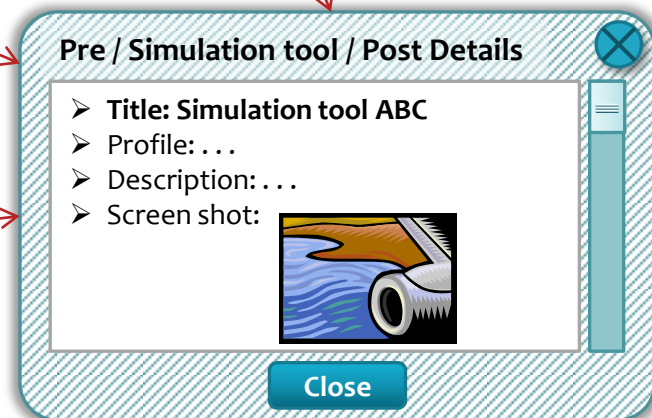
➤ Parameters

Add parameters ...

- None...

➤ Postprocessor: Postprocessor pst4 [Change ...]

User can review the details of the preprocessor, simulation tool, and postprocessor.



CS1-3: Simulation Setting

➤ **Title:** My interesting sim01

Simulate! →

Save workflow

➤ **Profile:**

- Created by: User1
- Creation Date & Time: 6/1/2011 5:53:17 PM
- ...

➤ **Description**

Describe your simulation here ...

➤ **Simulation Model:** None...

Set model ...

- Model Type: 3D Airfoil [[Change ...](#)]
- Preprocessor: [Preprocessor 2](#) [[Change ...](#)]

➤ **Simulation Tool:** [Simulation tool ABC](#) [[Change ...](#)]

➤ **Parameters**

Add parameters ...

- None...

➤ **Postprocessor:** [Postprocessor pst4](#) [[Change ...](#)]

User can change model type, preprocessor, simulation tool, and postprocessor, going back to the previous selection steps [CS1-1] and [CS1-2].

to [CS1-1] Select M-Type, Pre, & Tool

to [CS1-2] Select Tool & Post

CS1-3: Simulation Setting

➤ Title: My interesting sim01

➤ Profile:

- Created by: User1
- Creation Date & Time: 6/1/2011 5:53:17 PM
- ...

➤ Description

Describe your simulation here ... **A**

➤ Simulation Model: None...

- Model Type: 3D Airfoil [\[Change...\]](#)
- Preprocessor: [Preprocessor 2](#) [\[Change...\]](#)

➤ Simulation Tool: [Simulation tool ABC](#) [\[Change...\]](#)

➤ Parameters

- None...

➤ Postprocessor: [Postprocessor pst4](#) [\[Change...\]](#)

Simulate! →

Save workflow

go to: P-MON
- to monitor
simulations

enables

Set model ... **B**

Add parameters ... **C**

Setting Model: Preprocessor 2

Creating Model/Mesh - [Preprocessor 2] :

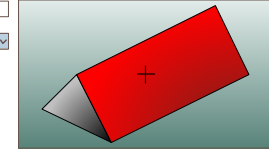
Type model title here...

Shape : Simple shape 1

X Size : 10

Y Size : 10

Z Size : 10



Save

Reset

Cancel

Add parameters

Single set of parameters :

Parameters Values

- Parameter 1 : value 1

- Parameter 2 : value 2

- Parameter 3 : Option 1 Option 2

Multiple sets of parameters :

Parameters From To Step

- Parameter 1 : 100 200 10

- Parameter 2 : 80 100 4

- Parameter 3 : Option 1 Option 2 All

Save

Reset

Cancel

Simulation Monitoring [P-MON]

➤ Title: My interesting sim01

Cases	Status	Download
■ S.Case 1	<div style="width: 100%; height: 10px; background-color: green;"></div> Done	Visualize <input checked="" type="checkbox"/>
■ S.Case 2	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>
■ M.Cases 3 ...	<div style="width: 25%; height: 10px; background-color: green;"></div> 1 of 4	Visualize <input checked="" type="checkbox"/>
- M.Case 3-1	<div style="width: 100%; height: 10px; background-color: green;"></div> Done	Visualize <input checked="" type="checkbox"/>
- M.Case 3-2	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>
- M.Case 3-3	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>
- M.Case 3-3	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>

Download

View Detail

go to: P-DTS
- to view simulation details

go to: P-PST
- to postprocess (visualize) the result

Parameter Set

➤ S.Case 1
Param 1: value1.1
Param 2: value1.2

Close

Multi Parameter Set

➤ M.Case 3
Param 1: from: value2.1.1 to: value2.1.2 step: s1
Param 2: from: value2.2.1 to: value2.2.2 step: s2

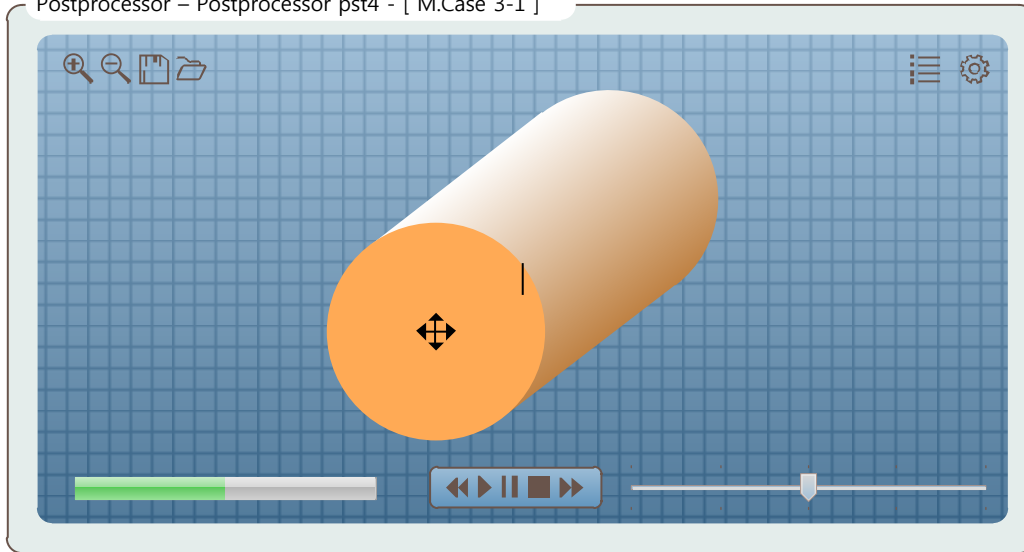
Close

Postprocessing [P-PST]

➤ Title: M.Case 3-1 of My interesting sim01

Back

Postprocessor – Postprocessor pst4 - [M.Case 3-1]



Simulation Details [P-DTS/DTW]

➤ **Title:** My interesting sim01

Monitor sim

Reuse this...

go to: P-MON

- to monitor simulations
- to review results

➤ **Profile:**

- Created by: User1
- Creation Date & Time: 6/1/2011 5:53:17 PM
- ...

➤ **Description**

This simulation is on 3D airfoil using sim tool ABC...
Parameter study is introduced with values from ... to...

➤ **Simulation Model:** My 3D Airfoil 001

- Model Type: 3D Airfoil
- Preprocessor: [Preprocessor 2](#)

➤ **Simulation Tool:** [Simulation tool ABC](#)

➤ **Parameters**

- S.Case 1
 - Param 1: value1.1
 - Param 2: value1.2
- M.Case 2
 - Param 1: from: value2.1.1 to: value2.1.2 step: s1
 - Param 2: from: value2.2.1 to: value2.2.2 step: s2

➤ **Postprocessor:** [Postprocessor pst4](#)

[CS2] Search & Reuse Scenario

go to: CS1-3

- to reuse pre/sim/post.
- to modify desc, (model), and params.
- profile will capture 'the reuse info'.

!! User cannot modify anything here. Must click 'reuse', then modify for another simulation.

Search simulations → Simulation details → Simulation monitoring →
Postprocessing

[CS₂] SEARCH & REUSE SIMULATION

Simulations [P-SIM] (1) = Search Simulations

The screenshot shows the EDISON Simulations web interface. At the top, there is a navigation menu with links for Home, My EDISON, Simulations (active), S-AppStore, Contents, Class, Community, Support, and Sitemap. Below the menu, there are links for [Navigation] and [New Sim...].

The main content area is divided into two sections:

- Search Simulations:** This section contains a search bar with the text "Type search key words...". To the left of the search bar is a "Search by..." dropdown menu with options: Any, Title, Model Type, Tools, and Description. Below the search bar are search filters: "Search scope" with checkboxes for "My simulations" and "Public simulations"; "Show me" with checkboxes for "Simulations" and "Simulation Workflows"; and "Sort by" with options for "Title", "Date", and "Rank". A "Search" button is located to the right of the search bar. A red arrow labeled "2" points from the Search button to the simulation list.
- Simulation Details:** This section is titled "Simulation Details" and has a "View Details" button. It contains a "Select a simulation..." dropdown menu. A red arrow labeled "1" points from this dropdown to the first simulation in the list. A callout box next to it says: "Default: My simulations & simulation workflows only. The default list represents my simulation (workflow) history." Another callout box next to the Search button says: "Search updates the list (result)." A "disabled" label with a dashed arrow points to the View Details button.

The simulation list contains the following items:

Rank	Simulation Title	Description	Cases Done	Total Cases
1	My simulation 0175 – vertical limit	description: ...	20 cases done of 35	35
2	Instrument surface resonance – Violin A296	description: ...	200 cases done of 240	240
3	My 3D Airfoil 203	description: ...	13 cases done of 13	13
4	My 2D Cylinder 451	description: ...	2 cases done of 2	2
...				

At the bottom of the list, there are pagination controls: 1 [2] [3] [4] [5] ... [Next →] [Last →].

Simulations [P-SIM] (2) = Search Simulations

The screenshot displays the EDISON Simulations web application. At the top, there is a navigation bar with tabs for Home, My EDISON, Simulations (selected), S-AppStore, Contents, Class, Community, Support, and Sitemap. Below the navigation bar, there are links for [Navigation] and [New Sim...].

The main content area is titled "Search Simulations". It features a search input field with the placeholder text "Type search key words..." and a "Search" button. Below the search field, there are several filters and options:

- Search by...** dropdown menu with options: Any, Title, Model Type, Tools, and Description.
- Search scope:** My simulations, Public simulations
- Show me:** Simulations, Simulation Workflows
- Sort by:** [Title ▲], [Date ▼], [Rank ▲]

The search results are displayed in a table:

Rank	Simulation Title	Description	Cases Done
1	My simulation 0175 – vertical limit	description: ...	20 cases done of 35
2	Instrument surface resonance – Violin A296	description: ...	200 cases done of 240
3	My 3D Airfoil 203	description: ...	13 cases done of 13
4	My 2D Cylinder 451	description: ...	2 cases done of 2

At the bottom of the table, there are pagination controls: 1 [2] [3] [4] [5] ... [Next →] [Last →].

The "Simulation Details" panel on the right shows the details for the selected simulation, "My 3D Airfoil 203". It includes a "View Details" button (labeled "enabled") and the following information:

- Simulation Title:** My 3D Airfoil 203
- Profile:**
 - Created by: User1
 - Creation Date & Time: 6/1/2011 5:53:17 PM
 - ...
- Description:**
- Simulation Model:** None...
 - Model Type: 3D Airfoil
 - Preprocessor: [Preprocessor 2](#)
- Simulation Tool:** [Simulation tool ABC](#)
- Parameters:** ...
- Postprocessor:** [Postprocessor pst4](#)

Simulation Details [P-DTS/DTW]

➤ **Title:** My 3D Airfoil 203

Monitor sim

Reuse this...

go to: P-MON

- to monitor simulations
- to review results

➤ **Profile:**

- Created by: User1
- Creation Date & Time: 6/1/2011 5:53:17 PM
- ...

➤ **Description**

This simulation is on 3D airfoil using sim tool ABC...
Parameter study is introduced with values from ... to...

➤ **Simulation Model:** My 3D Airfoil 001

- Model Type: 3D Airfoil
- Preprocessor: [Preprocessor 2](#)

➤ **Simulation Tool:** [Simulation tool ABC](#)

➤ **Parameters**

- S.Case 1
 - Param 1: value1.1
 - Param 2: value1.2
- M.Case 2
 - Param 1: from: value2.1.1 to: value2.1.2 step: s1
 - Param 2: from: value2.2.1 to: value2.2.2 step: s2

➤ **Postprocessor:** [Postprocessor pst4](#)

[CS2] Search & Reuse Scenario

go to: CS1-3

- to reuse pre/sim/post.
- to modify desc, (model), and params.
- profile will capture 'the reuse info'.

!! User cannot modify anything here. Must click 'reuse', then modify for another simulation.

Simulation Monitoring [P-MON]

➤ Title: My 3D Airfoil 203

View Detail

Cases	Status	Download
■ S.Case 1	<div style="width: 100%; height: 10px; background-color: green;"></div> Done	Visualize <input checked="" type="checkbox"/>
■ S.Case 2	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>
■ M.Cases 3 ...	<div style="width: 25%; height: 10px; background-color: green;"></div> 1 of 4	Visualize <input checked="" type="checkbox"/>
- M.Case 3-1	<div style="width: 100%; height: 10px; background-color: green;"></div> Done	Visualize <input checked="" type="checkbox"/>
- M.Case 3-2	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>
- M.Case 3-3	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>
- M.Case 3-3	<div style="width: 75%; height: 10px; background-color: green;"></div> Running	Visualize <input checked="" type="checkbox"/>

Download

go to: P-PST
- to postprocess (visualize)
the result

Parameter Set

➤ S.Case 1
Param 1: value1.1
Param 2: value1.2

Close

Multi Parameter Set

➤ M.Case 3
Param 1: from: value2.1.1 to: value2.1.2 step: s1
Param 2: from: value2.2.1 to: value2.2.2 step: s2

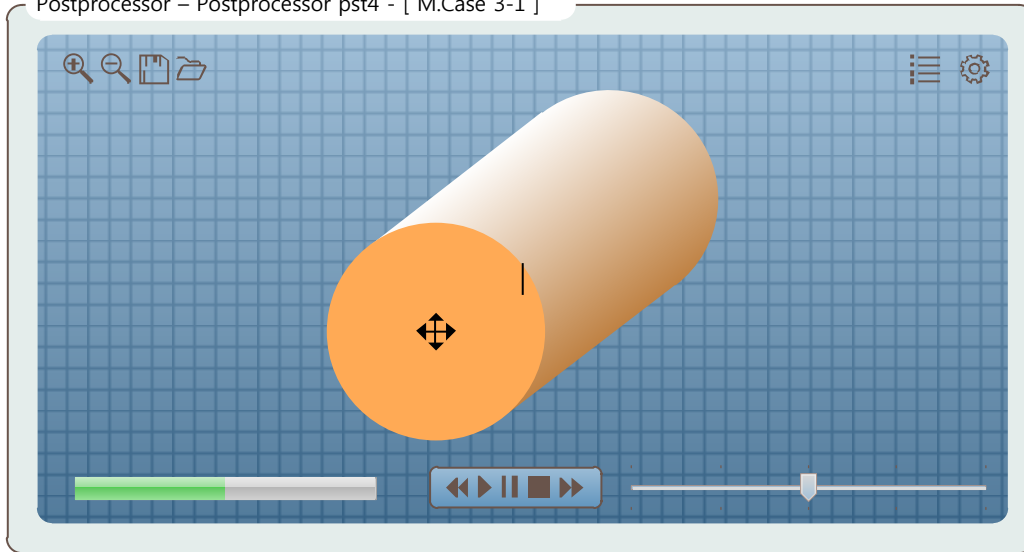
Close

Postprocessing [P-PST]

➤ Title: M.Case 3-1 of My 3D Airfoil 203

Back

Postprocessor – Postprocessor pst4 - [M.Case 3-1]



Navigate simulations → Simulation details → Simulation monitoring
→ Postprocessing

[CS₃] NAVIGATE & REUSE SIMULATION

Simulations [P-SIM] = Search Simulations

EDISON :: Simulations

Home

My EDISON

Simulations

S-AppStore

Contents

Class

Community

Support

Sitemap

Click to navigate
simulations

[[Navigation](#)] [[New Sim...](#)]

Search Simulations

- Search by... ▾
- Any
 - Title
 - Model Type
 - Tools
 - Description

Type search key words...

Search

– Search scope: My simulations Public simulations
– Show me: Simulations Simulation Workflows
– Sort by: [Title ▲] [Date ▼] [Rank ▲]

1	My simulation 0175 – vertical limit	
	description: ...	20 cases done of 35
2	Instrument surface resonance – Violin A296	
	description: ...	200 cases done of 240
3	My 3D Airfoil 203	
	description: ...	13 cases done of 13
4	My 2D Cylinder 451	
	description: ...	2 cases done of 2
...		

1 [2] [3] [4] [5] ... [Next →] [Last →]

Simulation Details

[View Details](#)

Select a simulation...

Navigate Simulations [P-NVS] (1)

The screenshot shows the EDISON Simulations interface. At the top, there is a navigation bar with tabs: Home, My EDISON, Simulations (selected), S-AppStore, Contents, Class, Community, Support, and Sitemap. Below the navigation bar, there are links for [Search] and [New Sim...].

The main content area is titled "Navigate Simulations". It includes a "Navigate by:" section with radio buttons for "Model Type" (selected) and "Simulation Tool".

Under "Model Type", there is a list of options: 1D, 2D Airfoil, 3D Airfoil (highlighted with a mouse cursor), 2D Cylinder, 3D Cylinder, and ...

Under "Simulations & Workflows", there is a table with the following data:

	Simulation Title	Progress
1	My simulation 0175 – vertical limit	description: ... 20 cases done of 35
2	Instrument surface resonance – Violin A296	description: ... 200 cases done of 240
3	My 3D Airfoil 203	description: ... 13 cases done of 13
4	My 2D Cylinder 451	description: ... 2 cases done of 2
	...	

On the right side, there is a "View Details" button (disabled) and a search box labeled "Select a simulation...".

Navigate Simulations [P-NVS] (2)

The screenshot shows the EDISON Simulations interface. At the top, there is a navigation bar with tabs: Home, My EDISON, Simulations (selected), S-AppStore, Contents, Class, Community, Support, and Sitemap. Below the navigation bar, there are links for [Search] and [New Sim...].

Navigate Simulations

– Navigate by: Model Type Simulation Tool

– Navigation scope: My simulations Public simulations
– Show me: Simulations Simulation Workflows
– Sort by: [Title ▲] [Date ▼] [Rank ▲]

Model Type	
1D	
2D Airfoil	
3D Airfoil	
2D Cylinder	
3D Cylinder	
...	

Simulations & Workflows	
1	My simulation 0175 – vertical limit description: ... 20 cases done of 35
2	Instrument surface resonance – Violin A296 description: ... 200 cases done of 240
3	My 3D Airfoil 203 (highlighted) description: ... 13 cases done of 13
4	My 2D Cylinder 451 description: ... 2 cases done of 2
...	

The 'My 3D Airfoil 203' simulation is selected, and a red dashed arrow labeled 'enables' points to the 'View Details' button. The details panel on the right shows the following information:

- Simulation Title:** My 3D Airfoil 203
- Profile:**
 - Created by: User1
 - Creation Date & Time: 6/1/2011 5:53:17 PM
- Description:** ...
- Simulation Model:** None...
 - Model Type: 3D Airfoil
 - Preprocessor: [Preprocessor 2](#)
- Simulation Tool:** [Simulation tool ABC](#)
- Parameters:** ...
- Postprocessor:** [Postprocessor pst4](#)

[P-DTS/DTW], [P-MON], & [P-PST]

- ▶ Rest of [CS3] is the same as ‘[CS2] search & reuse’
 - ▶ Simulation (or workflow) Details [P-DTS/DTW]
 - ▶ Simulation monitoring [P-MON]
 - ▶ Postprocessing (visualization) [P-PST]

[TOP] CONTENTS

Contents (Category)

The screenshot shows a web browser window titled "EDISON :: Contents". The browser's address bar is empty. The page has a navigation menu with the following items: Home, My EDISON, Simulations, S-AppStore, Contents (highlighted), Class, Community, Support, and Sitemap. Below the navigation menu, there is a section titled "Find a contents" with a search input field containing the placeholder text "Type search key words..." and a blue "Search" button. Below this is a section titled "Categories" which lists eight categories in two columns. Each category is preceded by a right-pointing chevron and includes a sub-header, a brief description, and two links: "Search >" and "Navigate >".

EDISON :: Contents

Home My EDISON Simulations S-AppStore **Contents** Class Community Support Sitemap

- **Find a contents**
Type search key words...
- **Categories**
 - **Simulation Tools**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Documents**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Courses**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Workshops**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Online Presentations**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Teaching Materials**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Learning Modules**
what is this...
explanation...
[Search >](#) [Navigate >](#)
 - **Downloads**
what is this...
explanation...
[Search >](#) [Navigate >](#)

Scenarios of Creating Simulations from Contents (Simulation Tools)

- ▶ **[CS4] Search Tool & Creating Sim**
 - ▶ Search Simulations Tools > Simulation Tool Details > “New Sim...”
- ▶ **[CS5] Navigate Tool & Creating Sim**
 - ▶ Navigate Simulations Tools > Simulation Tool Details > “New Sim...”

Contents tab (> Simulation Tools)

> Search Simulation Tools

> Simulation Tool 'Details' > "New Sim..." button (command)

[CS4] SEARCH TOOL & CREATING SIM

Simulation Tools [P-TOO] = Search Tools

Simulation Tool Details [P-DTT]

[CS1-1, -2, -3], [P-MON], ...

- ▶ When clicking ‘New Sim...’ of [P-DTT]
- ▶ Rest of [CS4] is followed by
 - ▶ Creating Simulation [CS1-1, -2, -3]
 - ▶ Simulation Tool is preset (highlighted)
 - ▶ Model Type, Pre, and Post are filtered by Simulation Tool
 - ▶ Problem Filter (... to be elaborated more)
 - ▶ Simulation Monitoring [P-MON]
 - ▶ Postprocessing [P-PST]
 - ▶ Simulation Details [P-DTS]

Contents tab (> Simulation Tools)

> Navigate Simulation Tools

> Simulation Tool 'Details' > "New Sim..." button (command)

[CS5] NAVIGATE TOOL & CREATING SIM

Navigate Tools [P-NVT]

[Search]

Navigate Simulation Tools

A

Model Type
1D
2D Airfoil
3D Airfoil
2D Cylinder
3D Cylinder
...


C

Simulation Tool
Simulation tool ABC
Simulation tool 123
Simulation tool Alpha
Simulation tool Beta
Simulation tool Boom
...

A+P

Simulation tool details [View Details](#)

- Title: Simulation tool ABC
- Profile: ...
- Description: ...
- Screen shot:



P

Use Problem Filter

[2D, 3D] & [Unstructured] &
[[Viscous flow - [Laminar, Turbulence] | Inviscid flow] | Steady]

Choose type of the problem :

<input checked="" type="checkbox"/> 2D	<input type="checkbox"/> Structured solver	<input type="checkbox"/> Compressible flow
<input checked="" type="checkbox"/> 3D	<input checked="" type="checkbox"/> Unstructured solver	<input type="checkbox"/> Incompressible flow
<input checked="" type="checkbox"/> Viscous flow	<input checked="" type="checkbox"/> Laminar	
<input checked="" type="checkbox"/> Inviscid flow	<input checked="" type="checkbox"/> Turbulence	
<input checked="" type="checkbox"/> Steady	테스트 입력	
<input type="checkbox"/> Unsteady	<input checked="" type="checkbox"/> k- ω SST	
	LES	
	DES	
	DNS	

Apply **Reset** **Cancel**

[P-DTT], [CS1-1, -2, -3], [P-MON], ...

- ▶ When clicking 'View Details' of [P-NVT]
- ▶ Rest of [CS5] is followed by
 - ▶ Simulation Tool Details [P-DTT]
 - ▶ Creating Simulation [CS1-1, -2, -3]
 - ▶ Simulation Tool is preset (highlighted)
 - ▶ Model Type, Pre, and Post are filtered by Simulation Tool
 - ▶ can preset Model Type using info from [P-NVT]
 - ▶ Problem Filter (... *to be elaborated more*)
 - ▶ Simulation Monitoring [P-MON]
 - ▶ Postprocessing [P-PST]
 - ▶ Simulation Details [P-DTS]