

# D-Case Weaver Stand Alone Specification

< appendices >  
Installation Guide

Version E1.0

2014/03/01

Edited by DEOS R&D Center



DEOS Project

JST-CREST

Research Area

“Dependable Operating Systems for Embedded Systems Aiming at Practical Applications”



Japan Science and Technology Agency

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# Introduction

The D-Case Weaver Stand Alone is a stand alone version of D-Case Weaver.

For D-Case Weaver, please refer to this web site.

<http://www.dependable-os.net/tech/DCaseWeaver/index-e.html>

For installation of D-Case Weaver, please refer to “A1. Installation Guide”.

# 1 User Interface

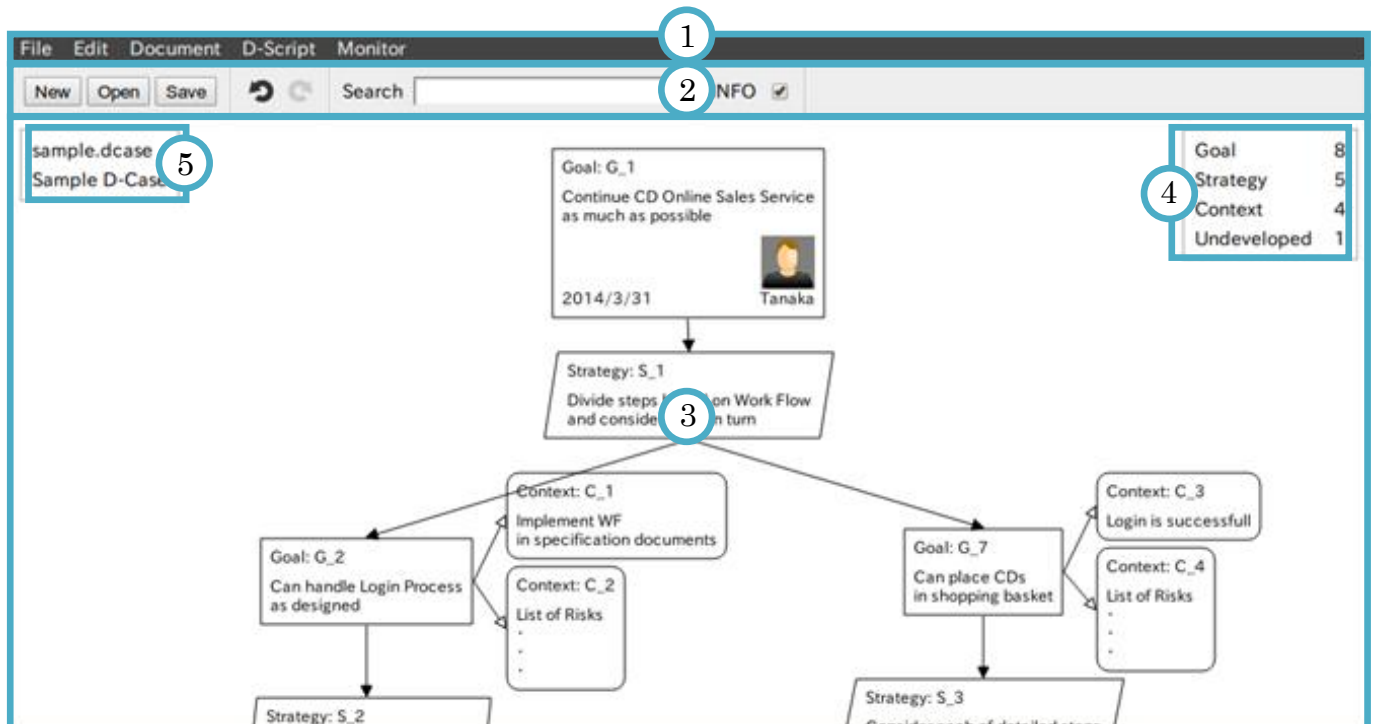


Figure 1-1 User Interface

1. Menu bar
2. Tool bar
3. Drawing area for D-Case diagram
4. Statistics information
5. File information

## 2 Creating and Saving a D-Case

### 2.1 Creating a New D-Case

To create a new D-Case, follow the procedure below.

No.	Procedure	Result	Note
1	From the menu bar, select “File” > “New”.	Empty D-Case diagram will be drawn in the drawing area.	You can do the same by clicking the “New” button on the tool bar.

### 2.2 Opening an Existing D-Case

To open an existing D-Case, follow the procedures below.

No.	Procedure	Result	Note
1	From the menu bar, select “File” > “Open”.	The Open D-Case dialog will be displayed.	You can do the same by clicking the “Open” button on the tool bar.
2	Select a file from the File List on the dialog.		
3.1	Click the “OK” button.	The D-Case diagram will be drawn in the drawing area and the dialog will close.	
3.2	Click the “Cancel” button	The dialog will close.	

#### Open D-Case dialog

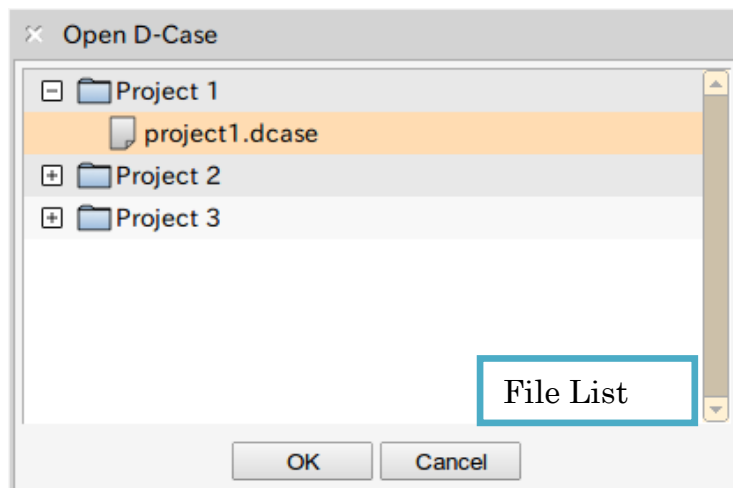


Figure 2-1 Open D-Case dialog

## 2.3 Saving a D-Case

To save a D-Case, follow the procedure below.

### Saving a D-Case

No.	Procedure	Result	Note
1	From the menu bar, select “File” > “Save”.	If the file has been saved, the D-Case will be saved. Otherwise, go to the following “Saving as a New D-Case” Procedure 2.	You can do the same by clicking the “Save” button on the tool bar.

### Saving as a New D-Case

No.	Procedure	Result	Note
1	From the menu bar, select “File” > “Save As”.	The Save D-Case dialog will be displayed.	
2	From the File List on the dialog, select a directory in which to save the D-Case.	The directory name will be displayed in the Directory field.	
3	Enter file name in the File Name field.		
4.1	Click the “OK” button.	The D-Case will be saved and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

### Save D-Case dialog

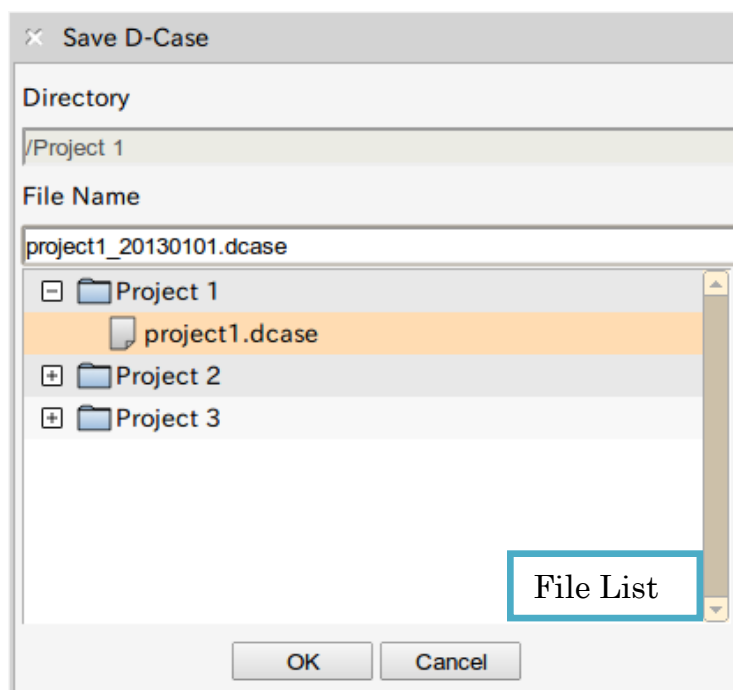


Figure 2-2 Save D-Case dialog

## 2.4 Saving as an Image File

To save a D-Case diagram in the PNG image format, follow the procedures below.

### Saving entire D-Case diagram

No.	Procedure	Result	Note
1	From the menu bar, select “File” > “Save As Image File”.	The Save As Image File dialog will be displayed.	
2	Optionally, enter a scale factor in the Scale field.		If you want to save in half scale, enter “0.5” in the field.
3.1	Click the “OK” button.	The image file will be saved.	
3.2	Click the “Cancel” button.	The dialog will close.	

### Saving a sub-tree rooted at a selected node

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select “Save As Image File”.	The Save As Image File dialog will be displayed.	
3	Go to “Saving entire D-Case diagram” procedure 2 above.		

### Limitation

When the image width or height is over 8192 pixels, the image is split and the split images are saved.

### Save As Image File dialog

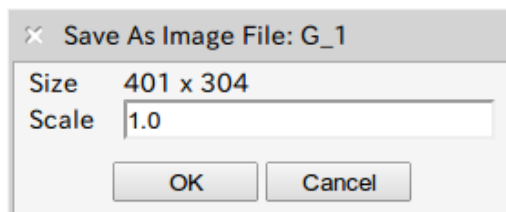


Figure 2-3 Save As Image File dialog



## 3 Editing Functions

### 3.1 Adding a Child Node

To add a child node, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select “Add Child”.	Node types will be listed on the context menu.	
3	Select a node type to be added.	A new node will be added.	

### 3.2 Editing a Node

To edit a node, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select “Edit Node”	The Node Editor dialog will be displayed.	
3	Edit the node.		
4.1	Click the “OK” button.	The changes will be applied to the node and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

### Node Editor dialog

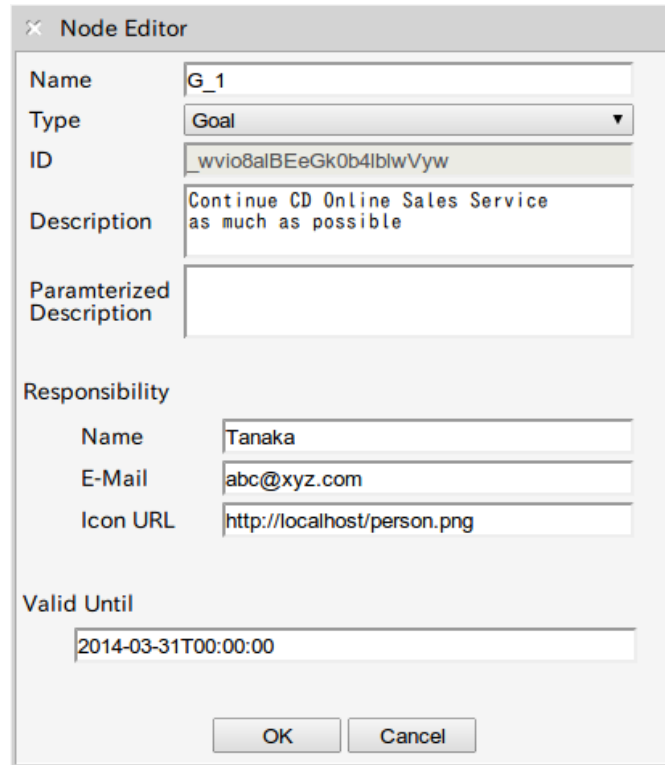


Figure 3-1 Node Editor dialog

### Configurations

Name	Description
<b>Name</b>	Node name
<b>Type</b>	Node type
<b>Description</b>	Description
<b>Parameterized Description</b>	<p>Parameters can be inserted into description as format below.</p> <p><i>{Parameter Name}</i></p> <p>In the node, the part of <i>{Parameter Name}</i> is replaced by the value that is set to the parameter.</p> <p>For the setting procedure, refer to “1 Parameters”.</p> <p>For Example)</p> <p>The number of users logged in at any one time is {LoginUserCount}.</p> <p>If both the Description and the Parameterized Description are set, the Parameterized Description is displayed preferentially.</p>
<b>Responsibility</b>	<p>Name: Name of the responsible person</p> <p>E-Mail: E-Mail address of the responsible person</p> <p>Icon URL: Icon URL of the responsible person</p>
<b>Valid Until</b>	Expiration date of the node

The configurations are displayed on the node as below.

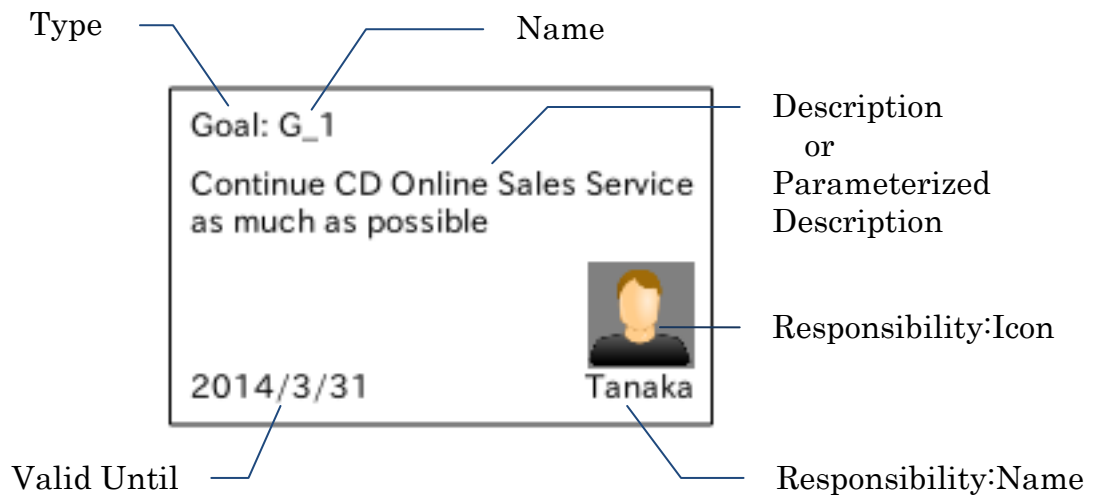


Figure 3-2 Description of Node

### 3.3 Deleting a Node

To delete a node, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select “Delete Node”.	The node will be deleted.	

### 3.4 Changing an order of sibling nodes

To change an order of sibling nodes, follow the procedures below.

No.	Procedure	Result	Node
1	Right-click a node.	The context menu will be displayed.	
2	Select “Sibling Order”.	Sibling Order dialog will be displayed.	
3	Change the order of sibling nodes by dragging and dropping the node		
4.1	Click the “OK” button.	The changes will be applied and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

### Sibling Order Dialog

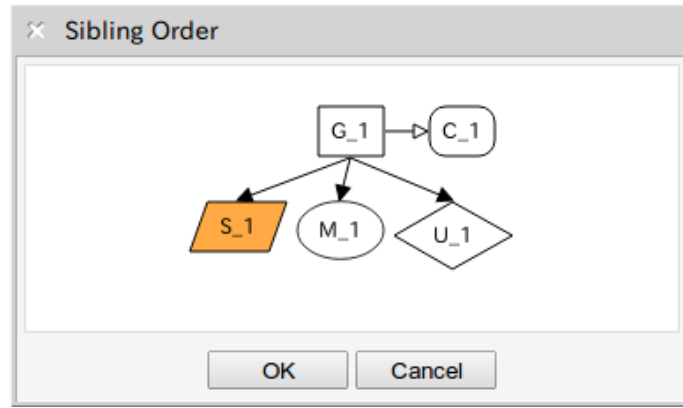


Figure 3-3 Sibling Order Dialog

You can change the order of sibling nodes by dragging and dropping the node.

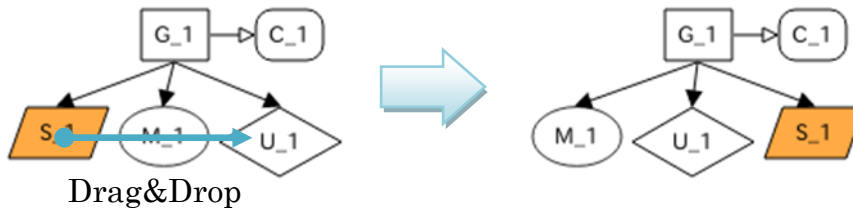


Figure 3-4 Changing the Order of Sibling Nodes

## 3.5 Adding a Link

To add a link, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select "Add Link".	"Parent" and "Child" will be displayed on the context menu.	
3	Select "Parent" or "Child"	The link, a red arrow for editing, will be displayed.	When "Parent" is selected, the link is displayed on parent side on the node. When "Child" is selected, the link is displayed on child side.
4	Drag the starting or ending point of the link and drop it on a node to link.		
5	Click places other than the starting and ending point of the link.	The changes will be applied and the link will be hidden.	

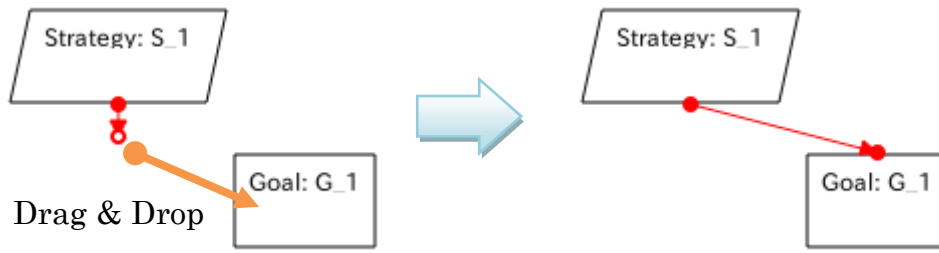


Figure 3-5 Editing a Link

### 3.6 Editing a link

To edit a link, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a link.	The context menu will be displayed.	
2	Select “Edit Link”.	Edit Link dialog will be displayed.	
3	Edit the link.		
4.1	Click the “OK” button.	The changes will be applied to the link and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

#### Edit Link dialog

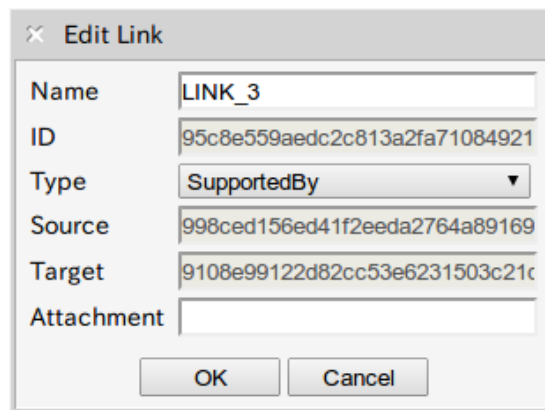


Figure 3-1 Edit Link dialog

#### Configurations

Name	Description
Name	Link name
Type	Link type
Attachment	Attachment

### 3.7 Editing a connection of a link

To edit a connection of a link, follow the procedures below.

No.	Procedure	Result	Note
1	Click a link.	The link, a red arrow for editing, will be displayed.	
2	Go to “Adding a Link” procedure 4 above.		

### 3.8 Deleting a Link

To delete a link, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a link.	The context menu will be displayed.	
2	Select “Delete Link”.	The link will be deleted.	

### 3.9 Editing Properties

You can display file information and edit description.

The file information is displayed in the upper left portion of the drawing area. It has a file name at upper part and a description at lower part.

The “Edit” button is displayed when the mouse cursor hover over the file information.



Figure 3-2 File Information

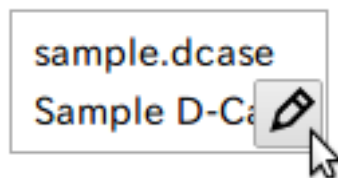


Figure 3-3 Edit Button

To edit the description, follow the procedures below.

No.	Procedure	Result	Note
1	From the menu bar, select “File” > “Properties”.	The Properties dialog will be displayed.	You can do the same by clicking the Edit button.
2	Edit description		
4.1	Click the “OK” button.	The changes will be	

		applied and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

Properties dialog

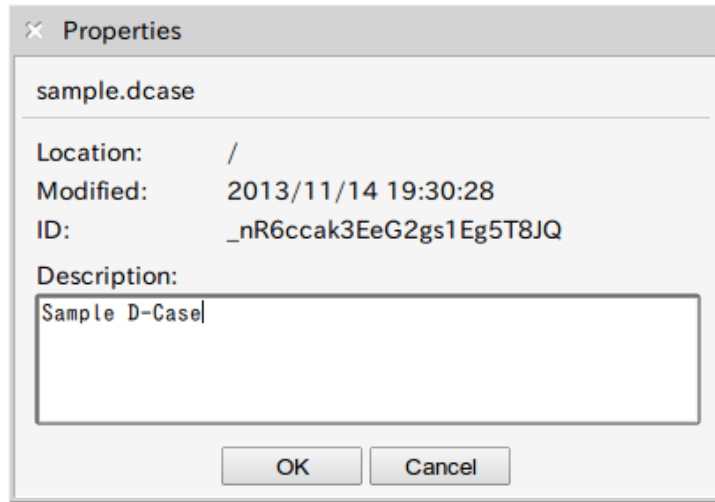


Figure 3-4 Properties dialog

### 3.10 Undoing and Redoing

To undo, follow the procedure below.

No.	Procedure	Result	Note
1	From the menu bar, select “Edit” > “Undo”.	The previous operation will be removed.	You can do the same by clicking the Undo button on the tool bar.

To redo, follow the procedure below.

No.	Procedure	Result	Note
1	From menu bar, select “Edit” > “Redo”.	The previous undo operation will be removed.	You can do the same by clicking the Redo button on the tool bar.

When undoing and/or redoing cannot be performed, the Undo and/or Redo items on the menu bar and the Undo and/or Redo button on the tool bar are disabled.



Figure 3-6 Undo / Redo button

# 4 Attachment

## 4.1 Attaching a URL

To attach a URL, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select "Attachment".	The Attachment dialog will be displayed.	
3	Enter a URL in the URL field.		
4.1	Click the "OK" button.	The changes will be applied and a clip icon will be attached to the node and the dialog will close.	
4.2	Click the "Cancel" button.	The dialog will close.	

You can remove the attachment by blanking the URL field.

### Attachment dialog

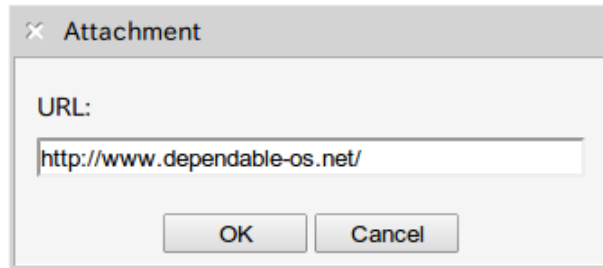


Figure 4-1 Attachment dialog

## 4.2 Opening an Attachment

To open an attachment, follow the procedure below.

No.	Procedure	Result	Note
1	Click the clip icon in a node.	The attachment will open.	

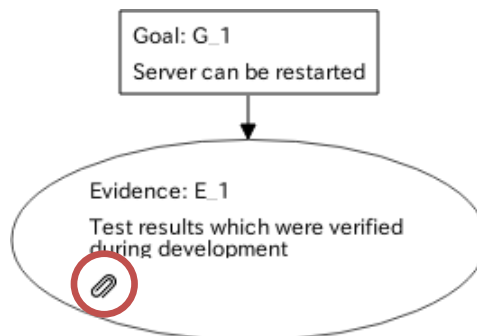


Figure 4-2 Clip icon



## 5 Searching for a Node

To search for a node, follow the procedures below.

No.	Procedure	Result	Note
1	Enter the name of the node to be searched in the Search field on the tool bar.	The node candidates will be listed every time a character is entered.	
2	From the list of node candidates, select a node.	The diagram will move as the selected node is displayed in center of the screen.	

### Search Node Tool

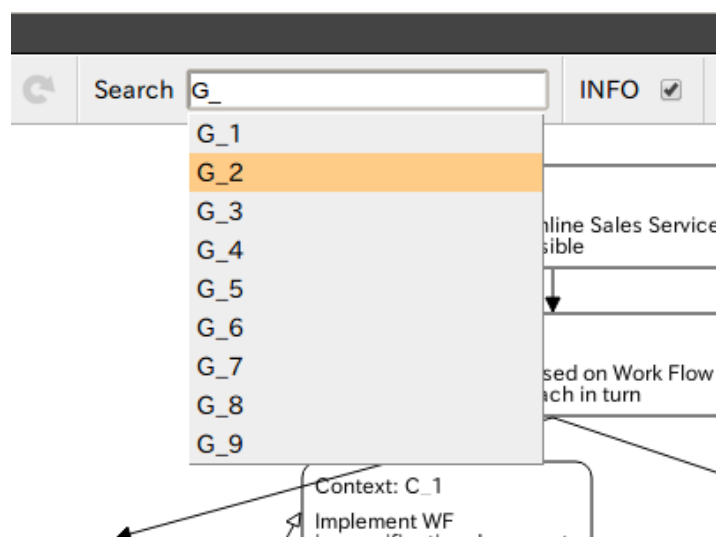


Figure 5-1 Search Node Tool

## 6 Viewing Statistics Information

You can show or hide statistics information by using the Show/Hide Statistics Information Tool.

### Show/Hide Statistics Information Tool

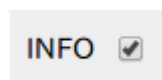


Figure 6-1 Show/Hide Statistics Information Tool

# 7 Repository Operations

The root directory of a repository as follows:

In case of Ubuntu

```
/home/[User Name]/DCaseWeaver/Documents/
```

In case of Windows

```
C:\Users\[User Name]\DCaseWeaver\Documents\
```

You can do the following operations for files and directories under the root directory.

- Creating a directory
- Deleting a file or a directory
- Importing a file
- Comparing D-Case documents

## 7.1 Common Operations

To open the Repository Browser, follow the procedure below.

No.	Procedure	Result	Note
1	From the menu bar, select “Document” > “Browse”.	The Repository Browser will be displayed.	

The following operations in Section 7.2 to 7.5 start from this state.

### Repository Browser

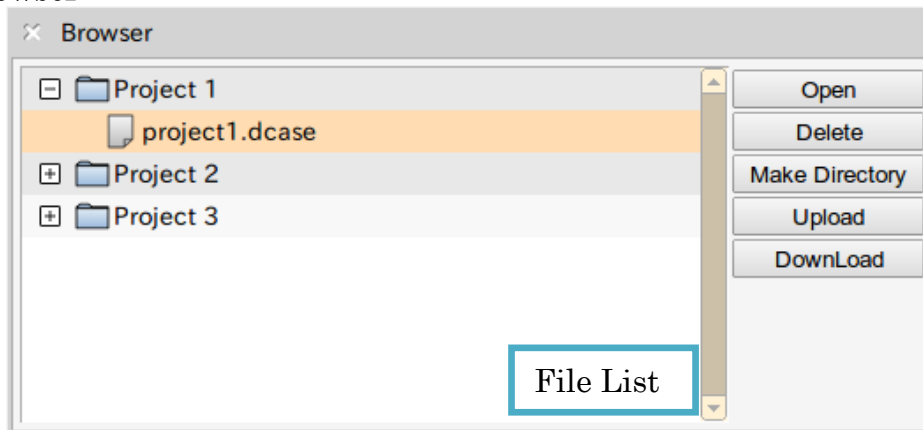


Figure 7-1 Repository Browser

## 7.2 Deleting a File or Directory

To delete a file or directory, follow the procedures below.

No.	Procedure	Result	Note
1	From the File List, select a file or directory.		

2	Click the “Delete” button.	The selected file or directory will be deleted.	
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## 7.3 Importing a File

To import a file, follow the procedures below.

No.	Procedure	Result	Note
1	From the File List, select a destination directory to import a file.		
2	Click the “Import” button.	The Import dialog will be displayed.	
3	In the dialog, select a file by clicking the “Choose File” button.		The label of the button may differ in browsers other than Chrome.
4	Enter a file name in the File Name field.		
5.1	Click the “OK” button.	The file will be imported and the dialog will close.	
5.2	Click the “Cancel” button.	The dialog will close.	

### Import dialog

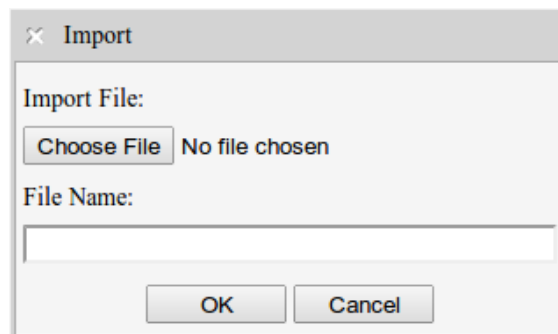


Figure 7-2 Import dialog

## 7.4 Creating a Directory

To create a directory, follow the procedures below.

No.	Procedure	Result	Note
1	From the File List, select a directory.		A new directory will be created in the selected directory.
2	Click the “Make Directory” button.	The Make Directory dialog will be displayed.	
3	Enter a directory name.		
4.1	Click the “OK” button.	A new directory will be created and the dialog will close.	

4.2	Click the “Cancel” button.	The dialog will close.	
-----	----------------------------	------------------------	--

**Make Directory dialog**

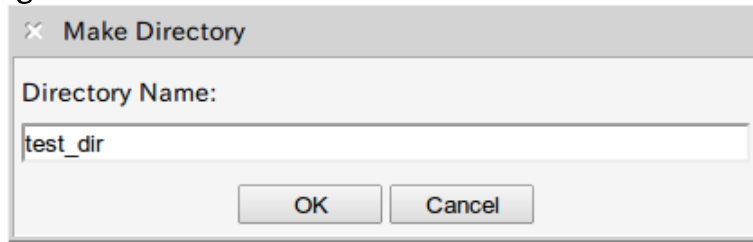


Figure 7-3 Make Directory dialog

## 7.5 Comparing D-Case Documents

To compare D-Case documents, follow the procedures below.

No.	Procedure	Result	Note
1	From the menu bar, select “Document” > “Compare To”	The Browser will be displayed.	
2	From the Browser, select a file to compare.		
3.1	Click the “OK” button.	The comparison result will be displayed and the dialog will close.	
3.2	Click the “Cancel” button.	The dialog will close.	

### Comparison Result

When nodes or links are deleted from selected D-Case document, they are displayed with a blue color.

When nodes or links are modified, they are displayed with a red color.



Figure 7-4 Comparizon Result

## 8 D-Script Parameters

You can set a D-Script and its parameters for performing the D-Script in a node.

### 8.1 D-Script Template File

For D-Script Template File, please refer to D-Case Weaver Specification.

### 8.2 CGI Program for Deploying Configuration Files

For CGI Program for Deploying Configuration Files, please refer to D-Case Weaver Specification.

### 8.3 Setting up Configurations

To set up, follow the procedures below.

No.	Procedure	Result	Note
1	From the menu bar, select “Edit” > “Preferences”.	The Preference dialog will be displayed.	
2	Set up the configurations of the D-Script.		
3.1	Click the “OK” button.	The configurations will be applied and the dialog will close.	
3.2	Click the “Cancel” button.	The dialog will close.	

#### Configurations

Name	Description
<b>Template Path</b>	The location of a D-Script template file  For example: /project1/d-script.xml
<b>Deploy URL</b>	The URL of a deploy application  For example: http://localhost/cgi-bin/deploy.php

### 8.4 Editing a D-Script

To select a D-Script and edit its parameters, follow the procedures below.

No.	Procedure	Result	Note
-----	-----------	--------	------

1	Right-click a node.	The context menu will be displayed.	
2	Select “Edit D-Script”.	The D-Script dialog will be displayed.	
3	Select a D-Script from the drop-down menu.	Information of selected D-Script will be displayed.	
4	Edit the D-Script parameters.		
5.1	Click the “OK” button.	The parameters will be applied and the dialog will close.	
5.2	Click the “Cancel” button.	The dialog will close.	

For the schema of the D-Script parameter that is added to a node, refer to D-Case Weaver Specification.

**D-Script dialog**

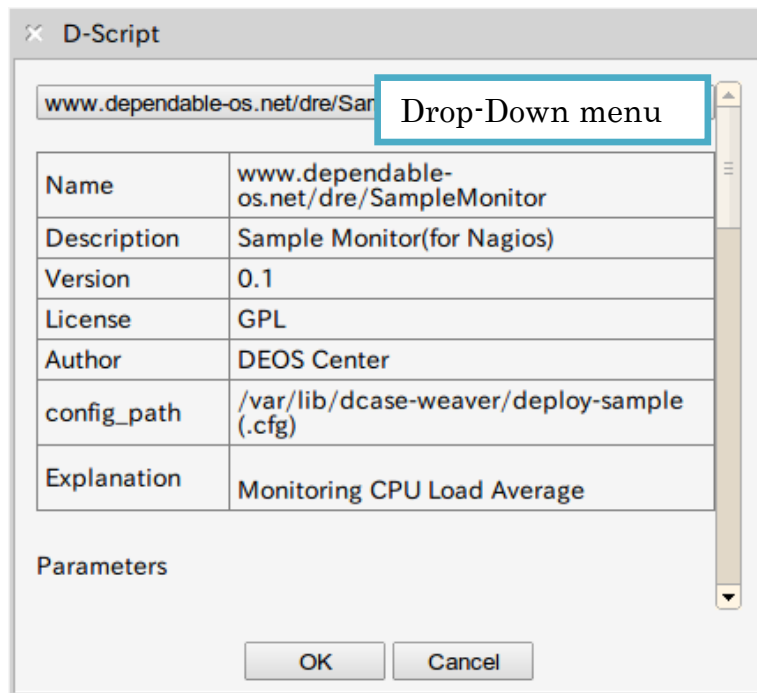


Figure 8-1 D-Script dialog

## 8.5 Deploying D-Script Configuration Files

To create and deploy D-Script configuration files, follow the procedure below.

No.	Procedure	Result	Note
1	From the menu bar, select “D-Script” > “Deploy”.	D-Script configuration files will be generated and be deployed.	The D-Script configuration files are deployed in the directory specified with config_path in a D-Script template file.

## 9 Monitoring

D-Case Weaver gets each node status from a status server and changes the node color according to the status.

The status is obtained in text format from a status server by HTTP protocol.

- HTTP METHOD  
GET
- REQUEST
  - PARAMETERS  
No parameters
  - BODY  
No data
- RESPONSE

The response is text formatted as follows.

```
id="Goal node ID" status="Status" message="Message"
```

The line delimited by a new line character is repeated every Goal.

The character encoding must be UTF-8.

### Parameters

Name	Description
Goal node ID	ID of the node of the monitoring target
Status	Select one of the following strings <ul style="list-style-type: none"> <li>● normal</li> <li>● running</li> <li>● error</li> </ul>
Message	Message

### Status and Color

Status	Color
normal	White
running	Yellow
error	Red

## 9.1 Setting up Configurations

To set up, follow the procedures below.

No.	Procedure	Result	Note
1	From the menu bar, select “Edit” > “Preferences”.	The Preference dialog will be displayed.	
2	Set up the configurations of Node Status Monitor.		
3.1	Click the “OK” button.	The configurations will be applied and the dialog will close.	
3.2	Click the “Cancel” button.	The dialog will close.	

### Configurations

Name	Description
URL	The URL of a status server  For example: http://localhost/cgi-bin/node-status.wsgi
Interval[ms]	The monitoring interval, in milliseconds  For example: 10000

## 9.2 Starting a Monitoring

To start a monitoring, follow the procedure below.

No.	Procedure	Result	Note
1	From the menu bar, select “Monitor” > “Start”.	The monitoring will start.	

## 9.3 Stopping a Monitoring

To stop a monitoring, follow the procedure below.

No.	Procedure	Result	Note
1	From the menu bar, select “Monitor” > “Stop”.	The monitoring will stop.	



## 9.4 Sample Program

For Sample Program, refer to D-Case Weaver Specification.

## 10 Cooperation Function with DS-Bench

D-Case Weaver cooperates with DS-Bench to provide the functions below.

- Getting test scenarios from DS-Bench.
- Setting up parameters of a test scenario
- Starting a test scenario
- Adding a node according to the evaluation result of a test scenario

For the installation and the usage of DS-Bench/Test-Env, refer to the following documents and web site.

- DS-Bench/Test-Env Specification (DEOS-FY2013-BS-01E)
- DS-Bench/Test-Env Setup Manual(DEOS-FY2013-BI-01E)
- DS-Bench/Test-Env Execution Manual(DEOS-FY2013-BT-01E)
- <http://www.dependable-os.net/tech/DSBenchDCloud/index-e.html>

### 10.1 Setting up Configurations

To set up the cooperation function with DS-Bench, follow the procedures below.

No.	Procedure	Result	Note
1	From the menu bar, select “Edit” > “Preferences”.	The Preference dialog will be displayed.	
2	Set up the configuration of the DS-Bench.		
3.1	Click the “OK” button.	The configurations will be applied and the dialog will close.	
3.2	Click the “Cancel” button.	The dialog will close.	

#### Configurations

Name	Description
<b>Name</b>	The name of DS-Bench server
<b>URL</b>	The URL of DS-Bench server

### 10.2 Selecting a test scenario

To select a test scenario prepared by DS-Bench, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a Strategy node.	The context menu will be displayed.	
2	Select “DS-Bench” > “Select Scenario”.	The Scenario List dialog will be displayed.	
3	Select a test scenario.		
4.1	Click the “OK” button.	The Goal node will be	

		added and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

By the procedures on the S\_1 Strategy node, the G\_1 Goal node is added to the Strategy node as below.

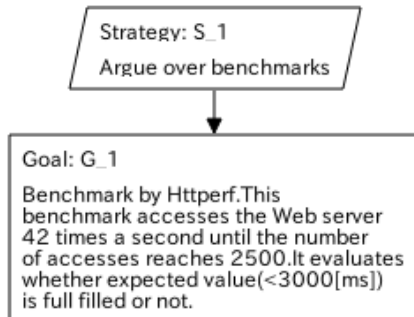


Figure 10-1 Selecting a test scenario

Scenario List dialog

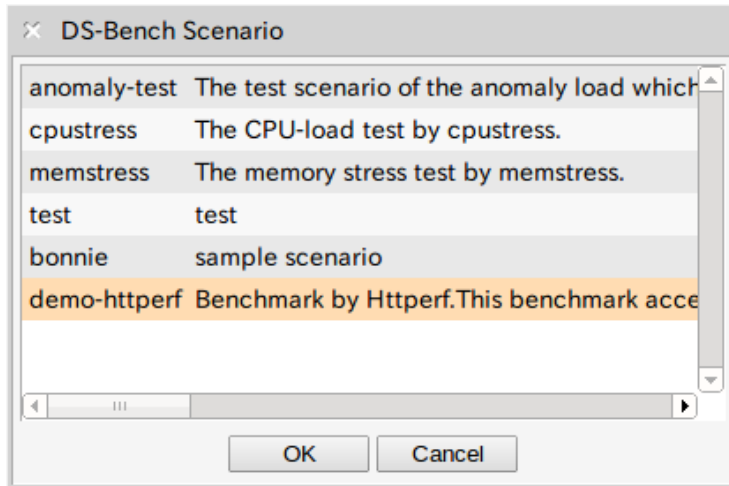


Figure 10-2 Scenario List dialog

### 10.3 Setting up Parameters

To set up parameters of a scenario, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click the Goal node added in Section 10.2.	The context menu will be displayed.	
2	Select “DS-Bench” > “Set Parameters”.	The Scenario Parameters dialog will be displayed.	
3	Set parameters		
4.1	Click the “OK” button.	The parameters will be applied and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

The parameters are test scenario specific.

### Scenario Parameters dialog

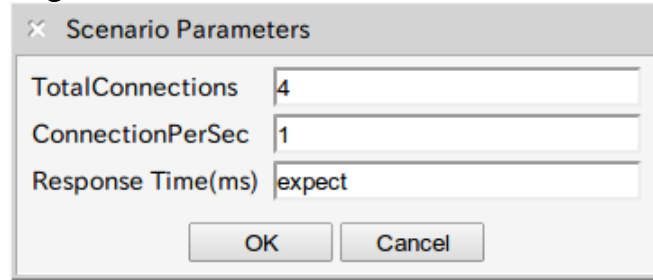


Figure 10-3 Scenario Parameters dialog

## 10.4 Starting a Test Scenario

To start a test scenario, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click the Goal node added in Section 10.2	The context menu will be displayed.	
2	Select “DS-Bench” > “Execute”	The test scenario will start.	

During execution of a test scenario, the execution status is displayed in the node.

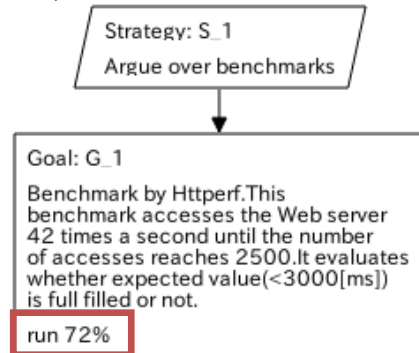
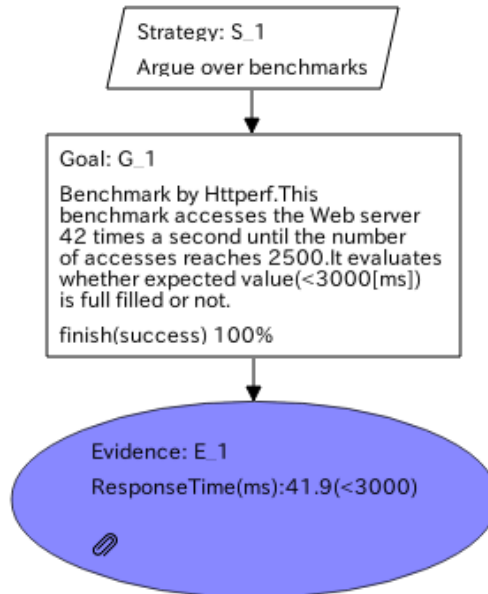


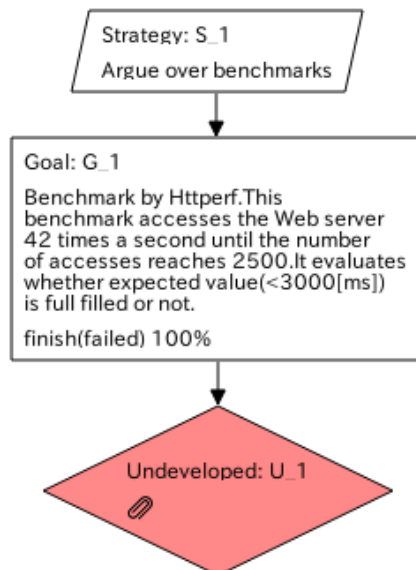
Figure 10-4 Execution Status

After completion of a test scenario, a node is added according to the evaluation result. If the result is satisfactory, a blue Evidence node is added.



**Figure 10-5 Satisfactory**

If the result is unsatisfactory, a red “Undeveloped” node is added.



**Figure 10-6 Unsatisfactory**

You can see the execution result details screen of DS-Bench if you click the clip icon in the node.

## 10.5 Stopping a Test Scenario

To stop a test scenario, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click the Goal node added in Section 10.2.	The context menu will be displayed.	
2	Select “DS-Bench” > “Cancel”	The test scenario will stop.	

# 11 Module

D-Case Weaver provides a modularization function which saves a part of D-Case as a new file. The modularized part is represented as a module node in the current D-Case.

## 11.1 Modularizing

To create a module, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a node.	The context menu will be displayed.	
2	Select “Module” > “Modularize”.	The Modularize dialog will be displayed.	
3	Enter the name of the module.		
4.1	Click the “OK” button.	The modularized sub-tree will be saved as a new file and be represented as a module node in the diagram. And the dialog will close.	
4.2	Click the “Cancel” button	The dialog will close.	

### Modularize dialog

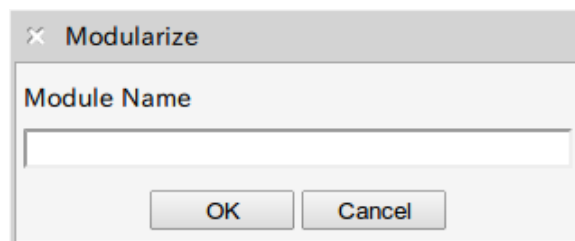


Figure 11-1 Modularize dialog

If the G\_2 node in Figure 11-2 is modularized, the diagram is as in Figure 11-3.

### Before Modularization

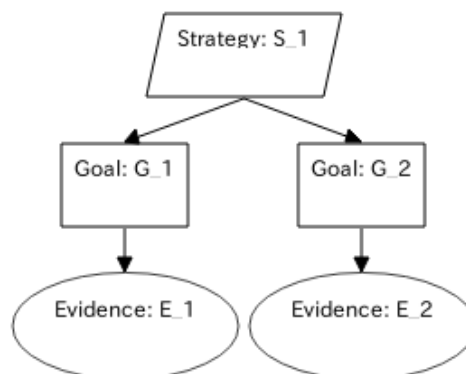


Figure 11-2 Before Modularization

### After Modularization

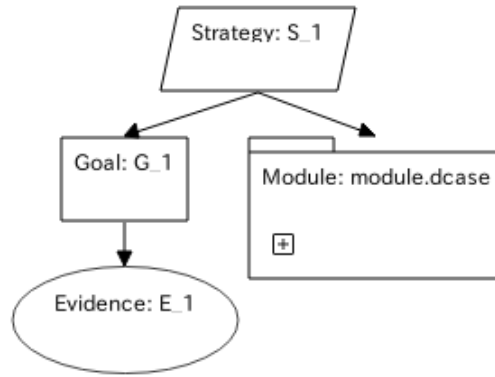


Figure 11-3 After Modularization

#### The destination to save the module

The destination directory is a directory that name is a original D-Case file name without extension(.dcase). The module is saved in the directory.

## 11.2 Selecting a Module

To select a module, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a Module or Goal node.	The context menu will be displayed.	
2	Select “Module” > “Select Module”.	The Select Module dialog will be displayed.	
3	Select a module.		
4.1	Click the “OK” button.	The module will be set in the node and the dialog will close.	
4.2	Click the “Cancel” button.	The dialog will close.	

#### Select Module dialog

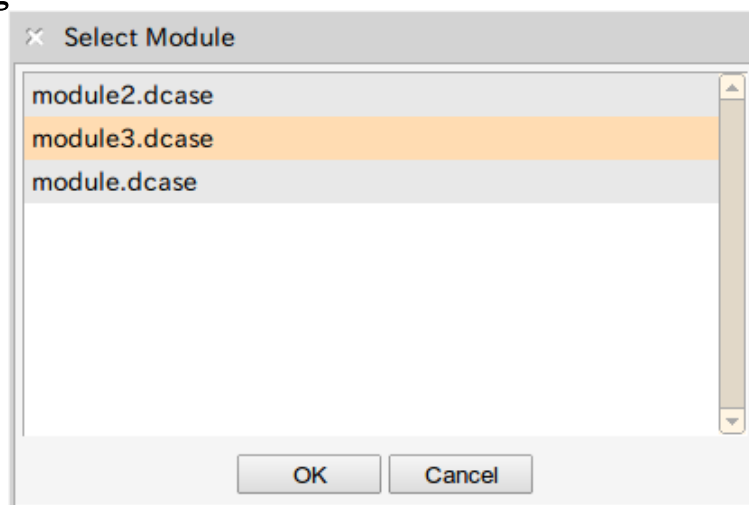


Figure 11-4 Select Module dialog

## 11.3 Un-modularizing



To un-modularize, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a Module node	The context menu will be displayed.	
2	Select “Module” > “Un-modularize”.	The module will be un-modularized.	

If the Figure 11-3 is un-modularized, the diagram is as below.

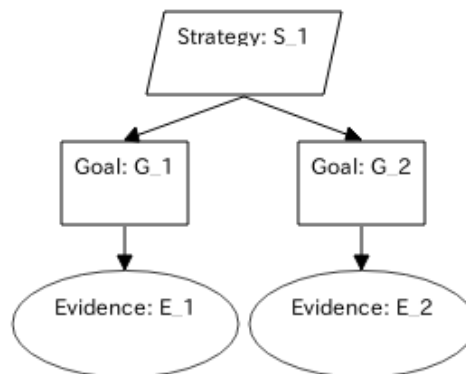


Figure 11-5 Un-modularizing a Module

## 11.4 Showing/Hiding inside of a Goal/Module Node

To show/hide inside of a Goal/Module node, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click a modularized node.	The context menu will be displayed.	
2	Select “Module” > “Show/Hide Module” > “Show”.	The D-Case which was modularized will be displayed in the node.	To hide the expanded view, select “Hide”. You can do the same by clicking the +/- icon in the node.

When the inside of Module node in Figure 11-3 is shown, the diagram changes as below.

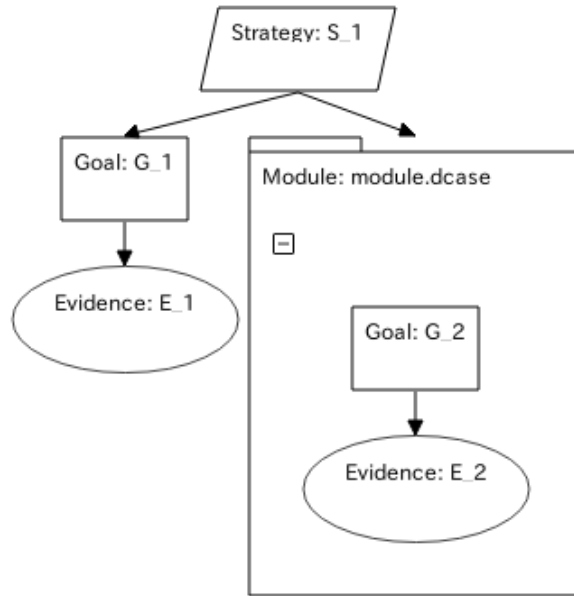


Figure 11-6 Exposed View of a Node

# 12 Parameters

You can set parameters in a Parameter node. The sub tree that the root node is the parent node of the Parameter node refers the parameters.

The parameters can be available by setting in the “Parameterized Description” with the following format.

*{Parameter Name}*

Setting example of Parameterized Description

The number of users logged in at any one time is *{LoginUserCount}*

The parameter is presented as follows.

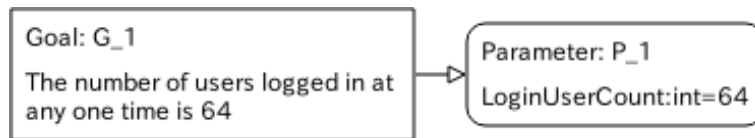


Figure 12-1 Setting example of Parameter

## 12.1 Opening the Parameters dialog

To open the Parameters dialog, follow the procedures below.

No.	Procedure	Result	Note
1	Right-click on a Parameter node.	The context menu will be displayed.	
2	Select “Parameters”	The Parameters dialog will be displayed.	

### Parameters dialog

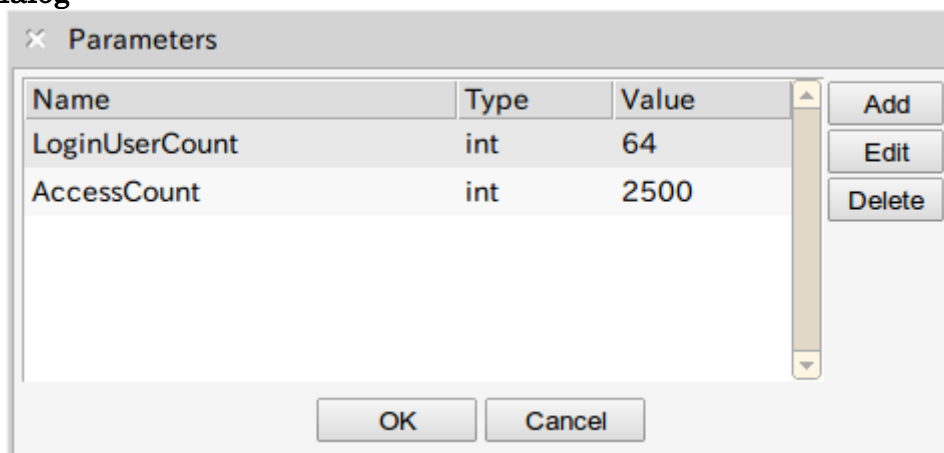


Figure 12-2 Parameters dialog

## 12.2 Adding Parameters

To add parameters, follow the procedures below.

No.	Procedure	Result	Note
1	Click the “Add” button on the Parameters dialog.	The Edit Parameter dialog will be displayed.	
2	Set up the configurations.		

### Configurations

Name	Description
<b>Name</b>	Parameter name
<b>Type</b>	Parameter type
<b>Value</b>	Value
<b>Length</b>	Number of characters of the Value ( shown if the Type is string )
<b>Range</b>	Range of the Value ( shown if the Type is int, double and raw )
<b>Enumeration Items</b>	List of enumerated constant value ( shown if the Type is enum ) An enumerated constant value can be added with “Add” button. An enumerated constant value can be deleted with “Delete” button.

## 12.3 Editing a Parameter

To edit a parameter, follow the procedure below.

No.	Procedure	Result	Note
1	Select a parameter to edit.		
2	Click the “Edit” button on the Parameters dialog.	The Edit Parameter will be displayed.	
3	Edit parameter		

## 12.4 Deleting a Parameter

To delete a parameter, follow the procedures below.

No.	Procedure	Result	Note
1	Select a parameter to delete.		
2	Click the “Delete” button on the Parameters dialog.	The parameter will be deleted.	

# Appendix

## A1. Installation Guide

### System Requirements

We have confirmed that D-Case Weaver works in the following system environments.

- OS
  - Ubuntu 12.04 32bit / 64bit
  - Windows Vista / 7

### Download

You can download the D-Case Weaver Stand Alone version from the following URL.

<http://www.dependable-os.net/tech/DCaseWeaver/index-e.html>

Please download one of the following depending on your environment.

- Debian package i386 / amd64
- Windows ( zip file )

### Installation and execution

#### In case of Debian package i386 / amd64

Execute the following commands.

```
$ sudo apt-get install libqtcore4 libqtwebkit4 libqt4-xml libqt4-network libicu48
$ sudo dpkg -i dcase-weaver-sa_1.0.0_i386( or amd64 ).deb
$ dcaseweaver
```

(The filename of the package may change depending on the version.)

#### In case of Windows

Right-click on the downloaded dcase-weaver-sa\_1.0.0\_win.zip file and “Extract All” the file to any directory on your computer.

Double-click the dcaseweaver.exe in the extracted dcase-weaver-sa\_1.0.0\_win directory.  
(The filename of the package may change depending on the version.)



## DEOS Project