

2009 SUN



SUN SIMULATION
user™
NETWORK

Helping improve patient outcomes.



Hot tips for Advanced Scenario Programming



WELCOME TO THE
2009 BALTIMORE SUN!



10 Hot Tips for Advanced Programming



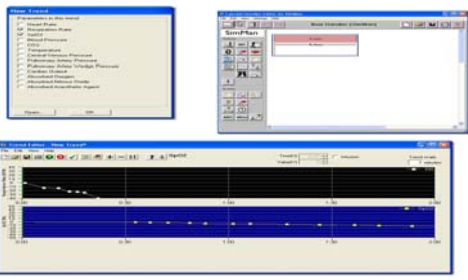

Top 10 Tips for Advanced Programming

- 1.) Using Trends
- 2.) Using Handlers
- 3.) Adding Vocal Sounds
- 4.) Importing Video Clips
- 5.) Importing Lab Values
- 6.) Importing X-Rays
- 7.) Adding Comments into Frames
- 8.) Adding Comments into Debriefing and using Grading
- 9.) Editing Event Menus
- 10.) Connecting frames via arrows vs nodes

Consulting • Education • Support
<http://simulation.laerdal.com>

Introduction to Trends



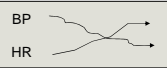
<http://simulation.laerdal.com>

SUN user NETWORK **Laerdal**

Frequently Asked Questions

What Is A Trend?

- Trends permit SimMan and SimBaby to physiologically model a number of factors including:
 - Heart rate
 - Respiration rate
 - SpO2
 - Blood pressure
 - CO2
 - Other invasive measurements
- Multiple factors may be included in a single Trend.
- For example: you may create a Trend that lowers blood pressure and slightly increases pulse in response to a dose of sublingual Nitro.

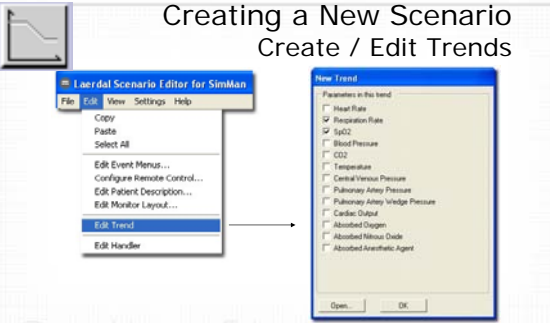


Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK **Laerdal**

Creating a New Scenario

Create / Edit Trends

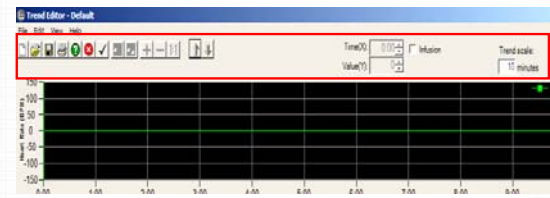


Refer to [Trend Editor](#) in Help contents

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK **Laerdal**

Trend Screen Orientation



Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Trend Tool Bars

1. New Trend
2. Open existing Trend
3. Save Trend
4. Print Trend
5. Help
6. Exit
7. Trend Parameters
8. Delete Selected Point
9. Delete all points in selected trend
10. Zoom in
11. Zoom out
12. Zoom to 1 : 1
13. Move selected trend
14. Trend Scale
15. Accuracy
16. Infusion

Trend scale: 10 minutes

Time(X): 0.00 Infusion

Value(Y): 0.00 16

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Creating a New Scenario

Create / Edit Trends

Trend Editor - New Trend

Time(X): 0.00 Infusion

Value(Y): 0.00

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Keep in mind baseline parameters when programming trends

"0" value is the parameter baseline before the trend begins

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Atropine

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Creating a New Scenario Saving Trends

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Frequently Asked Questions How Are Trends Activated?

- Trends may be placed directly into Frames or attached to an Event that is stored in a Handler.
- A Trend that is placed inside a frame will play as soon as the Frame is activated.
- A Trend that is attached to an event stored in a Handler will play when the Event is clicked from a list known as the Event Menu.

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal




Frequently Asked Questions What Is An Event Handler?

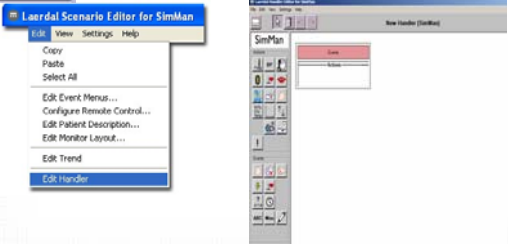
- Event Handlers may be used within a scenario to trigger actions, regardless of when the event occurs within the simulation.
- For example: You may create an Event Handler for a scenario that requires vocal sounds or physiological trends to play when a learner demonstrates a particular skill.
- Let's say the learner is checking the patient's I.D. bracelet against the chart. An Event contained in the Event Handler may be programmed play a vocal sound from the simulator that says, "Hello, my name is William."
- An Event Handler may contain one or many independent events.

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal



Creating a New Scenario Create / Edit Handlers

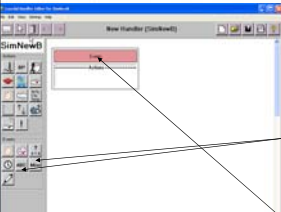


Refer to **Handler Editor** in Help contents

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK Laerdal

Create / Edit Handlers



- Choose a single event from ABC, Misc, or Medications event menu list and place them in the events area

To accomplish this, you left click on the event icon, and then left click on the word "event" in the pink frame box. Then choose the particular event and click on ok.

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK **Laerdal**

Create / Edit Handlers

Then select all of the "actions" that coordinate with the event. In this case a multimedia file (chest X-ray) will be inserted in the actions field.

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK **Laerdal**

Create / Edit Handlers

Comments can be inserted that will be displayed on the debriefing log

More than 1 handler frame can be bundled together

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK **Laerdal**

Using Multiple Events

This Handler contains two Events:

This Handler contains two Events

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN Simulation **user** Network

Laerdal Simulation

Saving Handlers

Consulting • Education • Support

<http://simulation.laerdal.com>

SUN Simulation **user** Network

Laerdal Simulation

Record patient vocal sounds using the Windows Sound Recorder

- Description:** Pre-recorded patient responses may be saved to the Event and Vocal Sound menus.
- Benefit:** Vocal sounds may be tailored to support patient history and other interaction.

Consulting • Education • Support

<http://simulation.laerdal.com>

SUN Simulation **user** Network

Laerdal Simulation

Record patient vocal sounds using the Windows Sound Recorder

Directions:

- Open Windows Sound Recorder: Start > All Programs > Accessories > Entertainment > Sound Recorder
- Record a vocal sound: Click on red record button to begin recording. Click on stop button to stop recording.
- Save vocal sound: Click **File** then **Save to My documents**.

Consulting • Education • Support

<http://simulation.laerdal.com>

SUN user NETWORK **Laerdal**

So...where does the Wizard save my vocal sounds?

SimBaby

SimMan

SUN user NETWORK **Laerdal**

Frequently Asked Questions

How Do I Add Vocal Sounds to My Simulator

- Connect microphone to PC
- Navigate to Sound Recorder

start All Programs \ Accessories \ Entertainment \ Sounds \ Recorder
- Record the vocal sound
- Import Vocal Sound by Using Importing Vocal Sound Wizard
- "Save" the recorded sound file in one of the following folders:

SimNewB Vocal Sounds
 C:\Program Files\Laerdal Medical\SimNewB\ri\Userdata_common\vocal_sounds\SimNewB

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK **Laerdal**

Import media files into the simulator software

Directions:

- Open Simulator's GUI > File > Import Media Files.
- The Import Media File Wizard opens.
- Media examples:
 - Radiology images supplied with simulator.
 - Images.
 - Video

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK

Laerdal

Importing Wave Files

1

2

3

Consulting • Education • Support

<http://simulation.laerdal.com>

SUN user NETWORK

Laerdal

Importing Media Files images

1

2

3

Consulting • Education • Support

<http://simulation.laerdal.com>

SUN user NETWORK

Laerdal

Importing JPEG Images continued

4

5

Consulting • Education • Support


<http://simulation.laerdal.com>

SUN Simulation
user
NETWORK

Laerdal
Medical Simulation

Frequently Asked Questions

Can I Add X-Rays or Other Images to the Patient Monitor?



- ❑ The user may add additional x-rays or other image files.
- ❑ Files must be converted to jpeg format.
- ❑ Select "Import X-Rays..." from the program menu. The "Import X-rays Wizard" will start.
- ❑ Save the X-Ray using the import wizard
- ❑ Select "Save As..." and save the file under the following folder:
 - ❑ "C:\Program Files\Laerdal Medical\SimNewB\ri\userdata common\X-ray\SimNewB"




Consulting • Education • Support

<http://simulation.laerdal.com>

SUN Simulation
user
NETWORK

Laerdal
Medical Simulation

Adding and Previewing Media Files

2

3



Consulting • Education • Support

<http://simulation.laerdal.com>

SUN Simulation
user
NETWORK

Laerdal
Medical Simulation

Adding and Previewing Media Files continued

4

5

Consulting • Education • Support

<http://simulation.laerdal.com>

SUN user NETWORK Laerdal

Open Edit Event Menus

File Edit View Settings Help

- Copy
- Paste
- Select All
- Edit Event Menus...**
- Configure Remote Control...
- Edit Patient Description...
- Edit Monitor Layout...
- Edit Trend
- Edit Handler

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK Laerdal

Add Folder

Add New Folder (New System) (Default)

Modules

Modules

Back to Default Menu Load Default Menu Previous Save Cancel

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK Laerdal

Add New Folder

Add New Folder (New System) (Default)

Modules

Modules

Back to Default Menu Load Default Menu Previous Save Cancel

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK

Laerdal SIMULATION

Add Event

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK

Laerdal SIMULATION

Adding Comments To Frame of a Scenario

- Left Click On Exclamation Point Icon under the Action Tabs in the scenario editor.
- Then Left Click in the action area of the frame where you would like to place a comment.

Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK

Laerdal SIMULATION


Adding Comments into Frames

- Comments Placed in the action area of a frame will come up in the event log when the frame that the comment was placed in is activated!

```

00:00:00 Scenario started: "Welcome SUN"
00:00:00 Connect step: Welcome to the Baltimore SDR
00:00:00 Create ID
00:00:00 Summary of all logs
@#00:02:14:30:00:10000:5000:300
#00:00:34:00:00
  
```


Consulting • Education • Support
http://simulation.laerdal.com

SUN user NETWORK 

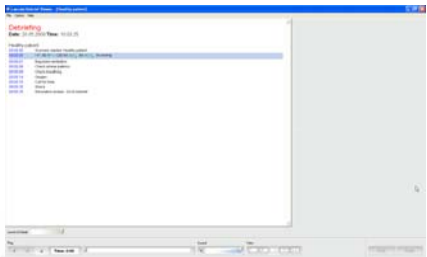
Add comments to the debriefing video

- From the debriefing log
- Right click at the time
- Correct or wrong step
- Ok to add

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK 

Open Simulator Debriefing




Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user NETWORK 

Type in Comment




Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user 

Add comments to the debriefing video



- From the debriefing log
- Right click at the time
- Correct or wrong step
- Ok to add

Consulting • Education • Support
<http://simulation.laerdal.com>

SUN user 

Connecting with Nodes

- Once you have left clicked on the ok button a box will appear under the event you have now connected. This box will inform you where the event is connected to.
- You will know you have successfully completed this if both boxes are now white and not pink.

Consulting • Education • Support
<http://simulation.laerdal.com>
