



How to Apply Numbering for Messages in Sequence Diagram?

Written Date : December 01, 2011

In [Visual Paradigm](#), you can number your messages on a [sequence diagram](#) in more than one way.

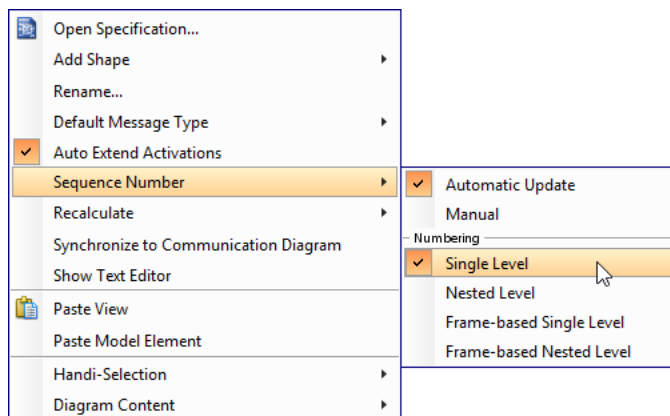
In this tutorial, we will introduce two main ways - (1) **diagram-based** and (2) **frame-based**. When we specify the "scope" to be either diagram or frame, basically we are telling Visual Paradigm where it should restart the number sequence for messages.

Note: The following example is demonstrated using Visual Paradigm.

1. Diagram-based Numbering

Diagram-based Numbering (Single Level)

In your UML sequence diagram, right-click on the background and select **Sequence Number > Single Level**.



As an example, we can see that despite making use of a frame element, the number sequence continues across, as long as they are within the same diagram.

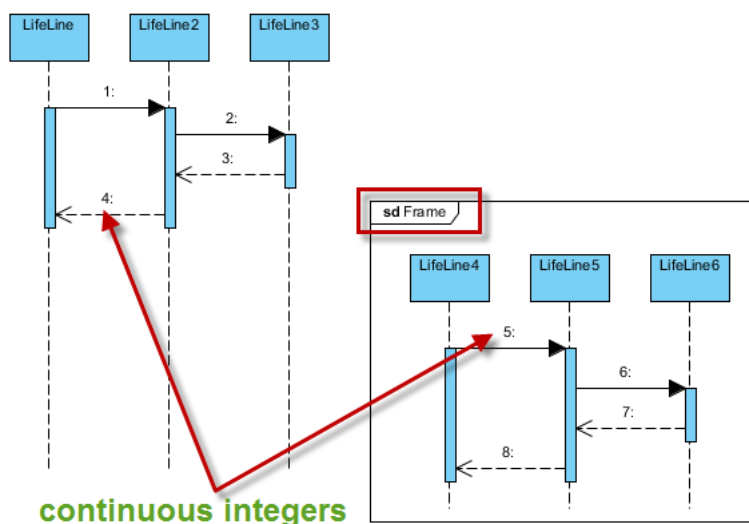
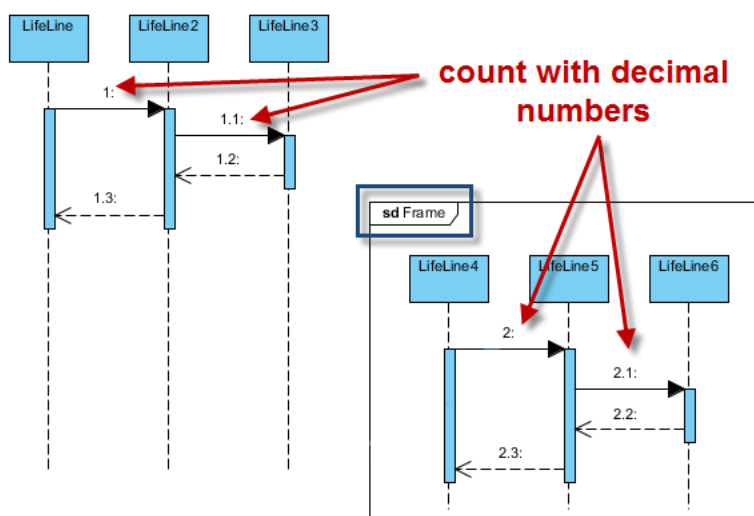


Diagram-based Numbering (Nested Level)

In your UML sequence diagram, right-click on the background and select **Sequence Number > Nested Level**.

Similarly, we can see that despite making use of a frame element, the number sequence continues across, as long as they are within the same diagram.

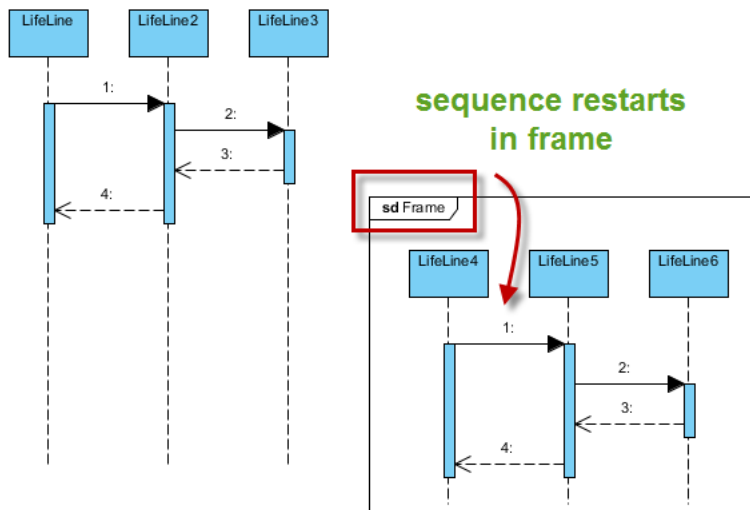


2. Frame-based Numbering

Frame-based Numbering (Single Level)

In your UML sequence diagram, right-click on the background and select **Sequence Number > Frame-based Single Level**.

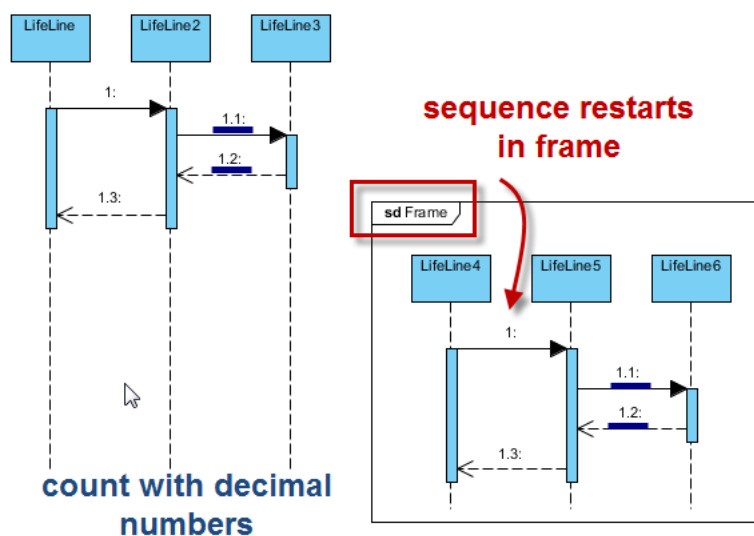
As an example, we can see that the message numbering restarts in the frame, despite it is within the same diagram.



Frame-based Numbering (Nested Level)

In your UML sequence diagram, right-click on the background and select **Sequence Number > Frame-based Nested Level**.

As an example, here we can see that the message numbering restarts in the frame. Also, "decimal numbers" are used to reflect the nesting levels of the procedural callings.



Visual Paradigm home page
(<https://www.visual-paradigm.com/>)

Visual Paradigm tutorials
(<https://www.visual-paradigm.com/tutorials/>)