

Create a movie into CATIA

5th CERN CATIA Users Forum

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Outline

- **Workbench and basic settings**
- **Create a Camera**
- **Create Track(s)**
- **Create Sequence**
- **Visualize the tracks or sequences**
- **Generate the video File**
- **A.O.B.**

Workbench and Basic Settings

- Open the Product & Check-Out
- Start the DMU Navigator workbench



- Set the view to perspective
 - View → Render Style → Perspective

Create a Camera

- Choose the position and zoom !
- Insert a camera
 - View → Named Views
- Add, and type the name chosen



Create a Camera

- In the Window menu, go into *Camera Window* and select the *Camera 1*
- Arrange the 2 windows
 - Window → Tile Horizontally

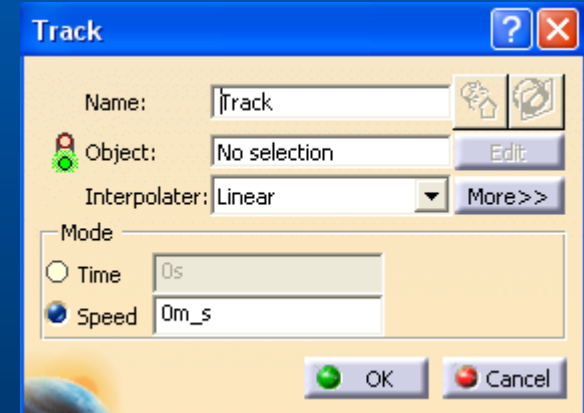
Note...

In the 1st window, you see what the camera see.

In the 2nd, you have a global view and visualize camera's position.

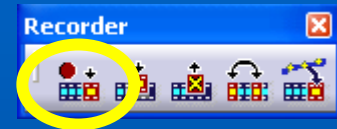
Create a Track

- Select the command
- Select the *Camera 1* as object
- Choose Linear or Spline
 - Linear recommended
- Choose the Speed
 - Examples:
 - 0.5 for detailed area
 - 4 for large room



Create a Track

- Create 1st point with *record*
- Move the camera with the compass using axes for translation or arcs for rotations
- Record intermediate points with *record*
- End the Track with a last Record.



Note...

Before creating a new point, you can change Linear to Spline, or increase or decrease the Speed.

Single Track or Multi tracks ???

- You can make your Sequence Plan in one single track.
- You can slice your Sequence Plan in several tracks.
 - Therefore, Create as many Tracks as needed.

Note...

To locate the camera for the following track, select the previous track and *skip to the end*.



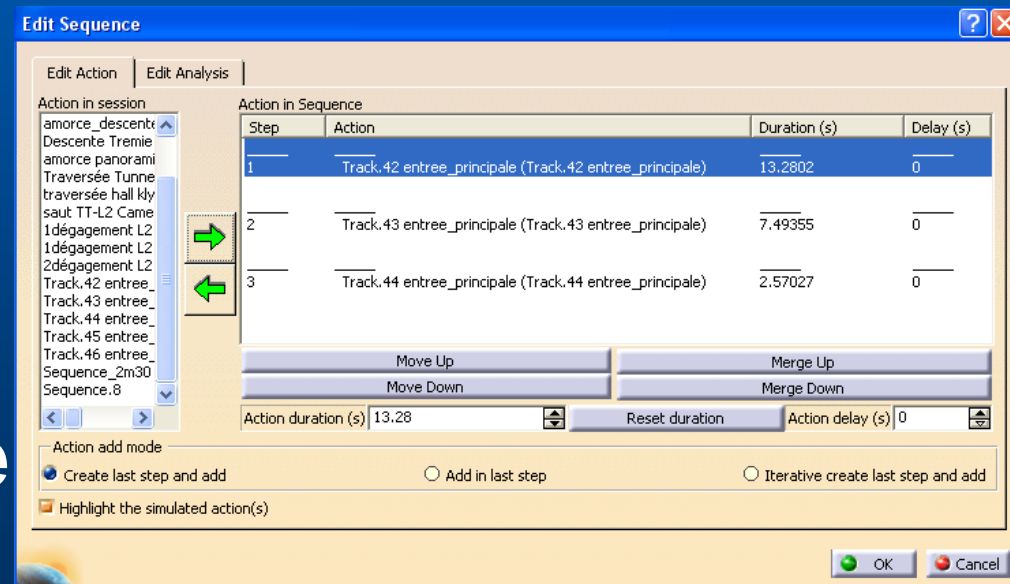
The compass will be positionned on the last point.

Create a Sequence

- To assemble your tracks, you have to create a Sequence



- Select the tracks in the order with the right arrow to load them in the sequence.



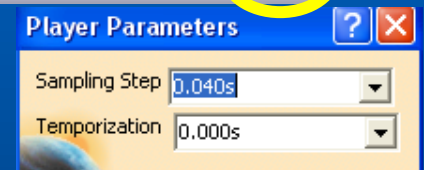
Visualize the work

- Select a track or a sequence

- Select *parameters*



- Change the *sampling* to 0.04s



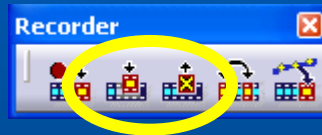
- Put the cursor at the beginning with the mentioned button



- Run

Customization

- You can modify the tracks as needed
 - delete, move points, change speed...



- To move the points, select *modify* and then use the compass to change the position.

Note...

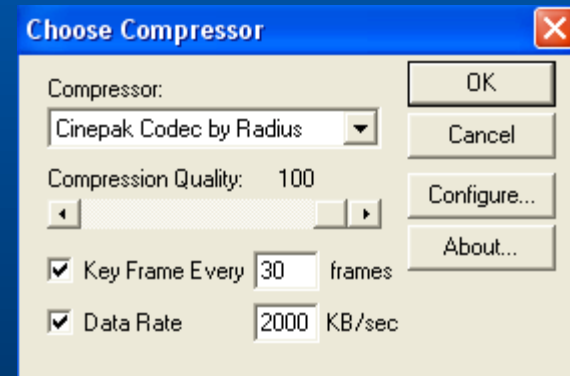
When the Tracks are modified, the sequence is not update !
You must recreate a new sequence.

Generate the video file

- **Select the camera**
- **Increase the Camera Window**
 - The size on the screen will be the size of the video !
- **Reduce the global window to minimum needed**
 - You have to select the sequence on it !
- **Hide the Tracks and Sequences ! (F2)**

Generate the video file

- Select the track or the sequence
- Select the command
 - Tools → Simulation → Generate Video
- Change the Setup
 - Values recommended...
- Name the file & RUN



Note...

**The Camera Window must be ACTIVE !
Select it before run the generation...**

A.O.B.

- An 'avi' file is created
- Generally, they are huge !
- You can compress them and/or add texts, but that's another story, out of CATIA.

Note...

Don't forget to Check-in your CATIA file to keep your work...