

# SIMULATION OF EVACUATION SITUATIONS IN ORDER TO PROTECT HUMAN LIVES AND MATERIAL PROPERTY

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**Summary:** The term ‘evacuation’ presents rather a wide concept, but generally it presents the safest, fastest and shortest way of getting out from endangered objects, situations or places for people, animals and material property to a secure place. The reasons for evacuation could be different: fire, gas, chemicals, war situations, bomb threats, terrorist attack, earthquakes, overflows, hurricanes, industrial accidents, nuclear accidents, eruptions of volcanoes, tsunamis, civil disorders, etc. Every evacuation situation is very complex and could have a very unpredictable development because it depends on many different parameters often hard to be controlled. So, it is very important to predict somehow, as much as possible, potential evacuation scenarios. One of the very good, economic and safe ways is to use the Pathfinder simulation software. This paper has been written to show the prediction of the evacuation situations development and meaning of simulation software usage in order to protect human lives and material property.

**Keywords:** evacuation, safety, simulation.

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