



LEGION[®] Social Distancing

Frequently Asked Questions



LEGION Social Distancing: Frequently Asked Questions

These are trying times. We recognize that COVID-19 is likely imposing challenges on how you and your organization get work done during periods of mass remote working and social distancing. In light of the current situation, Bentley is steadfast in its mission to provide innovative software and services for the enterprises and professionals who design, build and operate the world's infrastructure - sustaining the global economy and environment for improved quality of life.

Overnight, new requirements and standards have affected how we work and interact. New guidelines for distancing, occupancy and evacuation have created an urgent need for updated operations. Owners of buildings and facilities must quickly adapt to guarantee safety, customer service and business financial viability. To help you proceed with meeting the design and simulation needs of your project work, Bentley has put forth a limited-time proposal for you to adopt OpenBuildings™ Station Designer and LEGION Simulator software.

How does the campaign work?

- As a special offer to support station owners, design firms, and facilities operators responsible for planning, designing, and managing social distancing needs during the COVID-19 pandemic, Bentley is waiving new subscription fees for OpenBuildings Station Designer and LEGION Simulator through November 30, 2020*. After November 30, 2020, you have the option to continue your subscription, the terms of which shall be governed by a separate proposal to be entered by you and Bentley.
- This is an opportunity to share knowledge and best practices gathered during this challenging period, so as a counterpart, we ask users benefiting from the offer to share their projects in the format of case studies or submissions to [Year in Infrastructure Awards](#).
- To get details on local pricing and subscription details after November 30, please [contact us](#).

What is LEGION Simulator?

- LEGION Simulator is an analytical application that reads the pedestrian scenario plan of rail and metro stations, stadiums, and other large-gathering venues. The applications help engineers and designers to easily calculate the movement of people within a space. LEGION Simulator includes the data analysis capabilities to review the result with reports, video, and heat maps.

What is OpenBuildings Station Designer?

OpenBuildings Station Designer is an all-in-one BIM platform that enables professionals from multiple disciplines:

- to collaborate in real-time for designing, analyzing, documenting, and visualizing buildings, facilities and infrastructure.
- have access to the capabilities of OpenBuildings Designer, plus a station Workset (project configuration) including functional space definitions, design components (furniture, fixtures, and equipment), and several computational design templates.
- take advantage of an entitlement to run LEGION Model Builder.

*November 30, 2020 date valid for new contracts signed after September 1, 2020

What is LEGION Model Builder?

- LEGION Model Builder is an application used by building designers to import CAD floor plans. The software places pedestrian control and simulation objects within the floor plan to define a scenario of how people would interact within space. The models are the input to LEGION Simulator that performs the analysis resulting in a simulation.
- Bentley intends to include the capabilities of LEGION Model Builder in OpenBuildings Station Designer so that pedestrian scenario planning and simulation become an integral part of the BIM design process and facility operations. These capabilities will be added incrementally, over a series of product releases, until all capabilities have been integrated. After successful development of pedestrian scenario planning in OpenBuildings Station Designer, support of LEGION Model Builder will be discontinued.

What data do I need to build a simulation?

- **Space/activities:** Space is the area within a model through which entities can move. It is generated by importing CAD/BIM files (.dgn, .ifc, .dwg, .dxf, .rvt) and defining entrances, exits, and vertical circulation. Within that model, activities are set up with a mix of objects that influence entities movement. Objects such as shops, signs, ticket machines, queues, cash machines, market shelves, evacuation zones, and any other movement influencing activities can be modeled.
- **Entities:** Entities are simulated people who use the space modeled in LEGION Simulator. You can define entity types by gender ratio, size, size of luggage, entity profile, and speed profile. Entity and speed profiles reflect the personal space and speed preferences on different terrain. LEGION comes with profiles based on statistical analyses of real people in different cities and sites around the world.
- **Scenarios/analysis:** Data scenarios enable you to model, simulate, and analyze a range of different demand situations for the same model, such as for rush hour, social distancing, match day, and so on. For each simulation run, you can set up analysis of egress, ingress, space, or entity density, time, speed, evacuation, distances, journey times, inconvenience, frustration, discomfort, dissatisfaction, and social distancing.

How do I learn how to use LEGION?

- The Bentley LEARNserver is the central access point for managing your skills improvement and product training online. Here you can find [LEGION QuickStart](#) and advanced training sessions.
- On-demand webinars and best practice sessions are available [here](#).

How do I call for technical support?

- [Ask the LEGION Experts Q&A](#) and best-practice sharing sessions are available on demand.
- You can also submit any issues via [Service Request Manager](#) and our support team will contact you.