Space Management

What is it?

There are numerous benefits that BIM offers to design, coordinate, document and manage space resource allocations of Airport facilities. During design, project teams use BIM authoring software to create multiple iterations of space and floor plans to satisfy the project program. Space boundaries are automatically generated and adjusted based on changes to space bounding elements (e.g., walls), improving the accuracy of space reporting.

Designers can also adjust space boundaries and area calculations parametrically to reflect gross or net square footage, without recreating space elements in the model. They can use area elements (a custom function in Revit) to define spatial relationships and rapidly visualize area color schemes for review.

Although basic space management tasks (e.g. tenant assignment or area take-offs) can be performed directly in Autodesk Revit, a prominent advantage of using BIM is the ability to extract space information from conformed design models and bi-directionally share it with the Airport's space management target systems. This supports revenue development, aviation management, and safety and security activities, among other operations.

For detailed standards of space numbering, refer to the SFO Building Level and Space Numbering Guidelines in the Attachments.

How does it benefit stakeholders at the Airport?

- More efficient and accurate space reporting
- Enhances space information transfer
- More efficient program validation with multiple design options
- Space Resiliency Planning