

Generic AEC/FM BIM View Specification

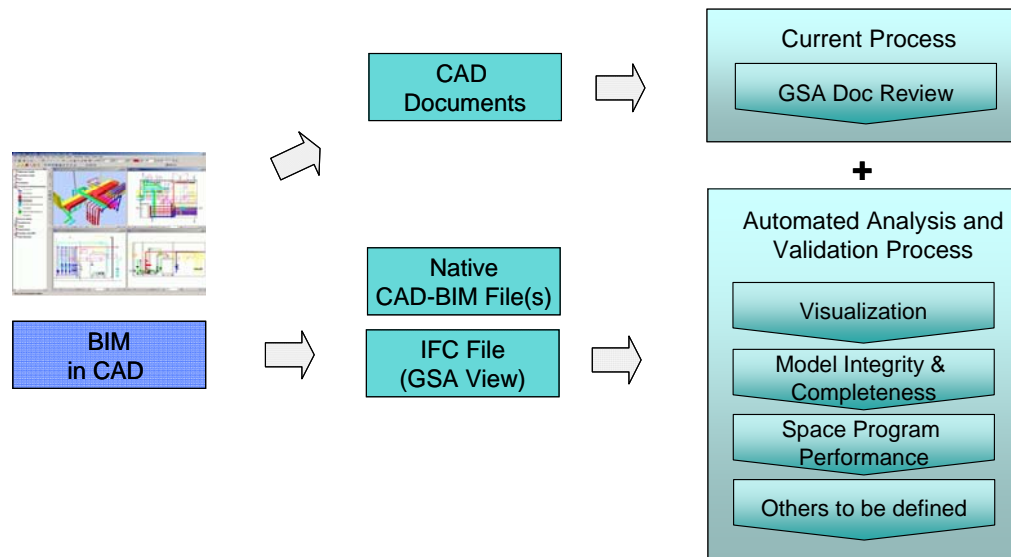
Architectural Design to Spatial Program Validation

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Description

Only part of information which is created by architects is needed for GSA's internal analyses of Conceptual Design Submissions. This Building Information Model (BIM) View Definition specifies the subset of the architect's BIM that must be submitted to GSA at Concept Design Submission milestones. This primary audience for this specification is software vendors creating BIM authoring applications that will be used to create such BIMs. Architects and Engineers (A-Es) creating such models are encouraged to review the GSA BIM Guide for end user instructions on how to create such models and what objects and information is expected.

BIM models conforming to this view will generally be created by design architects using architectural BIM authoring applications. Models will be submitted as .IFC model files structured according to the industry standard IFC 2x or 2x2 schema (see www.iai-international.org). These models will be uploaded to the GSA Project Information Portal at <http://BIM-Submission.GSA.gov>. GSA project managers will then load the models into various internal software applications to perform design analyses.



Version 1 of this BIM View is primarily focused on analysis of design performance relative to the GSA space program given to the architect at the outset of the project. While geometry and basic information is required for a primary set of building elements, emphasis has been put on properties of building spaces.

It is anticipated that future versions of this IFC Model View will expand both information and object requirements to support other analyses such as: early design based cost assessment, early design based energy performance simulation, and LEEDs simulation. GSA would prefer to work with other organizations with similar requirements to develop industry standard Views for these requirements.

Our approach to specifying an IFC Model view has been pragmatic. Our intent was to extend the existing Coordination View defined by the Implementer Support Group (ISG) in IAI because this view has been implemented in the architectural design applications most commonly used in North America. Our extensions are specific to Space objects in the IFC BIM.