

Exchange Requirements for: buildingSMART Room Data IDM

Name	ER_Room_Data
------	--------------

Identifier	BSI-001
------------	---------

Change Log		
09-Nov-08	Initial creation from a template	RichSee@DigitalAlchemyPro.com LCC@buildingSMART.no
11-Nov-08	Updates to the sketch, based in pre-workshop discussions	RichSee@DigitalAlchemyPro.com LCC@buildingSMART.no
07-Dec-08	Update to add some properties and clean up the tables, and better align with changes to the process map.	RichSee@DigitalAlchemyPro.com LCC@buildingSMART.no

Project Stage	0	Portfolio requirements	
	1	Conception of need	
	2	Outline feasibility	
	3	Substantive feasibility	✓
	4	Outline conceptual design	✓
	5	Full conceptual design	✓
	6	Coordinated design and procurement	
	7	Production information	
	8	Construction	
	9	Operation and maintenance	
	10	Disposal	

Overview

Please ensure that you have read the process mapping document ‘<name of process map in which this ER is used>’ before proceeding with this exchange requirement.

<Overview description for this ER>

Information Requirements

Type of Information	Information Needed	Description or comments	Data Type	Units	Required	Optional
Project/Building Information						
Project	The following properties should be included:					
	o Project Number/ID				X	
	o Project Name					
	o Client Information					
	o Architect Information					
	o					
	o					
	o					X
Campus	The following properties should be included:					
	o Campus ID				X	
	o Campus Name/Description					
	o					
	o					X
Building	The following properties should be included:					
	o Building ID				X	
	o Building Name/Description					
	o					
	o					X
Building Level	The following properties should be included:					
	o Building Level ID				X	
	o Building Level Name/Description					
	o					
	o					X
Spatial Information						

Type of Information	Information Needed	Description or comments	Data Type	Units	Required	Optional
Zone	The following properties should be included:					
	o Zone Number	This is industry specific				X
	o Zone Name					X
	o					
	o					X
Space	The following properties should be included:					
	o Space ID	Unique identifier assigned by the designer	String	n/a	X	
	o Space Name	Non-unique name assigned by designer	String	n/a	X	
	o Space Category	IFMA or BOMA standard	String	n/a	X	
	o Space SubCategory	Industry/firm specific	String	n/a		X
	o Space Functional Classification					
	o Space Height	Vertical length measure	Real number	in	X	
	o Space Areas					
	o Space Inside Face Area	Also known as Net Area	Real number	sq ft	X	
	o Space Wall Center-Line Area		Real number	sq ft	X	
	o Space Classification Hierarchy	Unique Organizational ID. This may be a faceted string – maybe up to 5 levels	String			
	o Space Occupant Name		String			
	o		String			
	o		String			
	o		String			
	o					
	o					X
Building Element Information						
Doors	The following properties should be included:					
	o Construction Type	i.e. the 'door type'			X	
	o Operating Type	e.g. swinging, rollup, revolving, ...				

Type of Information	Information Needed	Description or comments	Data Type	Units	Required	Optional
	o 2D Geometry					
	o 3D Geometry					X
	o					
	o					
Walls	The following properties should be included:					
	o Construction Type	i.e. the 'wall type'			X	
	o 2D Geometry					
	o 3D Geometry					
	o					X
	o					
Window	The following properties should be included:					
	o Construction Type	i.e. the 'window type'			X	
	o Operating Type	e.g. swinging, rollup, revolving, ...				
	o 2D Geometry					
	o 3D Geometry					X
	o					
	o					