CoordinationView 2.0 / Export

MEP

ACCA Software S.p.A

Edificus MEP

08/04/2022

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Introduction

Edificius is the new generation BIM MEP software for 3D modeling of mechanical, electrical and plumbing systems integrated with architectural design.

With Edificius you can continue to work with the same freedom as with a CAD, but with all the advantages of a BIM!

Functionalities:

An intuitive and adaptive "Smart MEP" modeler with intelligent component connections and automatic alignments.

Create an infinite BIM objects library with the parametric MEP object configurator.

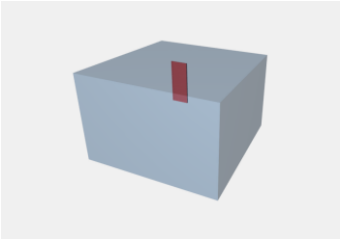
Import and export models in the IFC format to interact with any other BIM s

Testlist

Name test	concepts total	manually checked		
		■	■	■
CharsetTest-01MEP / 2x3	2	2		
DuplexHouse_Electrical / 2x3	65	64		1
DuplexHouse_Heating / 2x3	56	56		
DuplexHouse_Sanitary / 2x3	52	49		3
DuplexHouse_Ventilation / 2x3	44	42		2
RandomMEP-X1 / 2x3	1	1		
RandomMEP-X2 / 2x3	1	1		
RandomMEP-X3 / 2x3	1	1		
RandomMEP-X4 / 2x3	1	1		
RandomMEP-X5 / 2x3	1	1		
Space_01MEP / 2x3	15	15		
UnitTest-01MEP / 2x3	3	3		

Concepts

CharsetTest-01MEP / 2x3



General	*company statement*	*CharsetTest-01MEP / 2x3*
_G1 Character sets		
_G4 Remarks		

DuplexHouse_Electrical / 2x3

204 IfcEnergyConversionDevice	*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
205 IfcFlowController	*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■	

■ Supported ■ Restricted ■ Not Supported

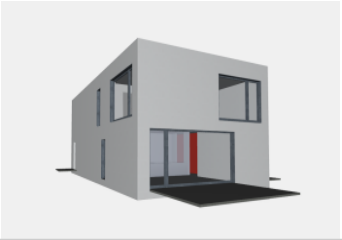
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
206 IfcFlowFitting		*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		

100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
208 IfcFlowSegment	*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	

130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	

210 Property Set			
210-1 Property Set IFC Common	■		
210-6 Property Set IFC any	■		
210-9 Property Set User Defined	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
501 IfcProject		*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■		
503 IfcBuilding		*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■		
504 IfcBuildingStorey		*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
150 Spatial Aggregation			
150-1 Spatial Composition	■		
507 IfcSystem		*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■		
130 Grouping			
130-2 Grouping to Systems	■		
130-5 Is Group	■	Not yet supported.	
General		*company statement*	*DuplexHouse_Electrical / 2x3*
_G4 Remarks	■		

DuplexHouse_Heating / 2x3



204 IfcEnergyConversionDevice	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-5 Type Property Set	■	
205 IfcFlowController	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■	

030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
130 Grouping			
130-2 Grouping to Systems	■		
300 Type			
300-1 Type Geometry	■		
300-5 Type Property Set	■		
206 IfcFlowFitting		*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■		

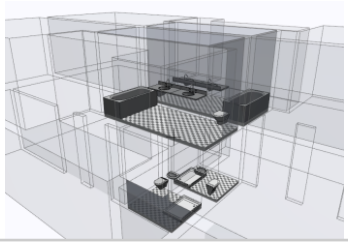
■ Supported ■ Restricted ■ Not Supported

110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	This concept is supported but export is grouped for type materials. This means that there may be some IfcFlowSegment with no Geometry on type but there is at least one with Geometry on type in this example so the concept is supported.
300-5 Type Property Set	■	
207 IfcFlowMovingDevice	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-5 Type Property Set	■	

208 IfcFlowSegment	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	This concept is supported but export is grouped for type materials. This means that there may be some IfcFlowSegment with no Geometry on type but there is at least one with Geometry on type in this example so the concept is supported.
300-5 Type Property Set	■	
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	

040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		
110 Connectivity		
110-5 Connectivity by Ports		
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry		
300-5 Type Property Set		
General	*company statement*	*DuplexHouse_Heating / 2x3*
_G4 Remarks		

DuplexHouse_Sanitary / 2x3



205 IfcFlowController	company statement	DuplexHouse_Sanitary / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Concept not yet supported.	
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		
110 Connectivity		
110-5 Connectivity by Ports		
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		

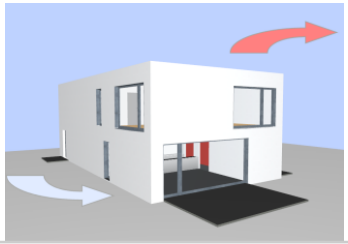
206 IfcFlowFitting	company statement	DuplexHouse_Sanitary / 2x3
010 Naming		

020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Concept not yet supported.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■		
208 IfcFlowSegment		*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		

040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■		
210 IfcFlowTerminal		*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Concept not yet supported.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		

120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-6 Property Set IFC any	■	
210-9 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
507 IfcSystem	*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming	■	
130 Grouping		
130-5 Is Group	■	
250 System Assignment		
250-2 Services Spatial Element	■	
General	*company statement*	*DuplexHouse_Sanitary / 2x3*
_G4 Remarks	■	

DuplexHouse_Ventilation / 2x3



206 IfcFlowFitting	company statement	DuplexHouse_Ventilation / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Not yet supported.	
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		
110 Connectivity		
110-5 Connectivity by Ports		
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		

207 IfcFlowMovingDevice	company statement	DuplexHouse_Ventilation / 2x3
010 Naming		

020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Not yet supported.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■		
208 IfcFlowSegment		*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		

040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	

130 Grouping		
130-2 Grouping to Systems		
507 IfcSystem	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming		
130 Grouping		
130-5 Is Group		
250 System Assignment		
250-2 Services Spatial Element		
General	*company statement*	*DuplexHouse_Ventilation / 2x3*
_G4 Remarks		

RandomMEP-X1 / 2x3

General	*company statement*	*RandomMEP-X1 / 2x3*
_G4 Remarks		

RandomMEP-X2 / 2x3

General	*company statement*	*RandomMEP-X2 / 2x3*
_G4 Remarks		

RandomMEP-X3 / 2x3

General	*company statement*	*RandomMEP-X3 / 2x3*
_G4 Remarks		

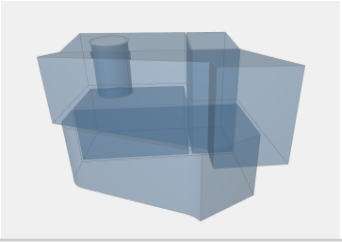
RandomMEP-X4 / 2x3

General	*company statement*	*RandomMEP-X4 / 2x3*
_G4 Remarks		

RandomMEP-X5 / 2x3

General	*company statement*	*RandomMEP-X5 / 2x3*
_G4 Remarks		

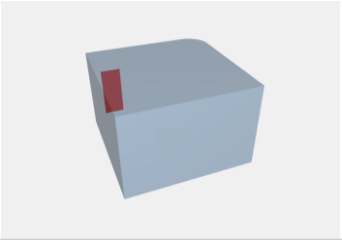
Space_01MEP / 2x3



111 IfcBuildingElementProxy	*company statement*	*Space_01MEP / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
210 Property Set		
210-2 Property Set IFC any	■	
505 IfcSpace	*company statement*	*Space_01MEP / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	

040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
150 Spatial Aggregation		
150-1 Spatial Composition		
210 Property Set		
210-6 Property Set IFC any		
General	*company statement*	*Space_01MEP / 2x3*
_G4 Remarks		

UnitTest-01MEP / 2x3



501 IfcProject	*company statement*	*UnitTest-01MEP / 2x3*
005 Project Units		
005-1 Project Metric Units	■	
005-2 Project Imperial Units	■	
General	*company statement*	*UnitTest-01MEP / 2x3*
_G4 Remarks	■	