CoordinationView 2.0 / Export

CADMATIC Electrical and HVAC

CV2.0-MEP

31/01/2020

CADMATIC

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Introduction

CADMATIC Electrical and CADMATIC HVAC are CAD 2D/3D softwares, developed by Finnish company CADMATIC. Softwares are available both in English and Finnish. Softwares include import and export functions of IFC formatted data models. The certified IFC 2x3 CV2.0 MEP export is available from version 17.

CADMATIC Electrical is database-based application with centralized project data management for electrical and automation design. CADMATIC Electrical has a wide range of functionalities for BIM design including real time clash detection, height management, centralized project data management, product databases, 3D models, BOM, BCF, dynamical cable tray functions etc.

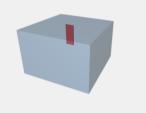
CADS HVAC is an HVAC designer's tool for heating, plumbing and ventilation planning which is done in 3D and based on the product databases. CADMATIC HVAC also includes sizing and balancing functions for the pipework and ductwork.

Testlist

	concepts total	manu	ally che	ecked
Name test				
CharsetTest-01MEP / 2x3	2	2		
DuplexHouse_Electrical / 2x3	65	24		41
DuplexHouse_Heating / 2x3	56	31	7	18
DuplexHouse_Sanitary / 2x3	52	21	5	26
DuplexHouse_Ventilation / 2x3	44	25	1	18
RandomMEP-X1 / 2x3	19	9		10
RandomMEP-X2 / 2x3	28	18		10
RandomMEP-X3 / 2x3	4	1		3
RandomMEP-X4 / 2x3	22	14		8
RandomMEP-X5 / 2x3	45	22		23
Space_01MEP / 2x3	15	12	3	
UnitTest-01MEP / 2x3	3	2		1

Concepts

CharsetTest-01MEP / 2x3



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

DuplexHouse_Electrical / 2x3

Supported

Restricted

Not Supported



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		
05 IfcFlowController	company statement	DuplexHouse_Electrical / 2x3
010 Naming		

020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted.	
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-4 Port Assignment	[JPa 2016-08-16] CADS Planner does not support Port assignment.[JPa	
110 Connectivity		
110-5 Connectivity by Ports	2016-08-16] CADS Planner does not support connectivity by ports.	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-2 Type Naming		
6 IfcFlowFitting	company statement Duplex	House_Electrical / 2:
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		

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Not Supported

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		

Restricted

Not Supported

130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
10 IfcFlowTerminal	company statement	DuplexHouse_Electrical / 2x
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support 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	CADS Planner does not support 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 ls Group		
General	company statement	DuplexHouse_Electrical / 2x3
_G4 Remarks	CADS supports IfcEnergyConvesionDevice, IfcFlowFitting and IfcFlowSegment objects, but this test case does not contain any, so those concepts are set to "not supported" state.	

Restricted

Not Supported

DuplexHouse_Heating / 2x3

Supported

Restricted

Not Supported



204 IfcEnergyConversionDevice	company statement	DuplexHouse_Heating / 2x3
010 Naming		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-5 Type Property Set		
05 IfcFlowController	company statement	DuplexHouse_Heating / 2x3
010 Naming		

030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignmet.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-5 Type Property Set		
06 IfcFlowFitting	company statement	DuplexHouse_Heating / 2x3
010 Naming		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		

Restricted

Not Supported

100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
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	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
130 Grouping		
130-2 Grouping to Systems		

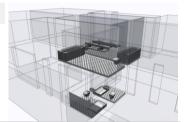
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-5 Type Property Set		
208 IfcFlowSegment	company statement	DuplexHouse_Heating / 2x
010 Naming		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Only IfcExtrudedAreaSolid type of SweptSolid is supported.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported. In this test case all Flowsegments are swept solids.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-5 Type Property Set		
210 IfcFlowTerminal	company statement	DuplexHouse_Heating / 2x:
010 Naming		

Restricted

Not Supported

030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-5 Type Property Set		
eneral	company statement	DuplexHouse_Heating / 2
_G4 Remarks		

DuplexHouse_Sanitary / 2x3



5 IfcFlowController	company statement	DuplexHouse_Sanitary / 2x
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Only IfcExtrudedAreaSolid type of SweptSolid is supported. Swept geometry is supported only for IfcFlowSegment.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted.	
030-6-9 Geometry Mapped	Mapped geomery is supported but this test model does not contain any mapped representations for IfcFlowController.	
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
6 IfcFlowFitting	company statement	DuplexHouse_Sanitary / 2

010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Swept geometry is supported only for IfcFlowSegment.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
08 lfcFlowSegment	company statement	DuplexHouse_Sanitary / 2:
010 Naming		
020 Placement		
020-2 Placement Relative		

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Only IfcExtrudedAreaSolid type of SweptSolid is supported.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
210 IfcFlowTerminal	company statement	DuplexHouse_Sanitary / 2x3
010 Naming	This test model does not contain any IfcFlowTerminal.	
020 Placement		
020-2 Placement Relative	This test model does not contain any IfcFlowTerminal.	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Only IfcExtrudedAreaSolid type of SweptSolid is supported. This test model does not contain any IfcFlowTerminal.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted. This test model does not contain any IfcFlowTerminal.	
030-6-9 Geometry Mapped	This test model does not contain any IfcFlowTerminal.	

Restricted

Not Supported

040 Presentation		
040-1 Geometric Presentation	This test model does not contain any IfcFlowTerminal.	
050 CAD Layer	This test model does not contain any IfcFlowTerminal.	
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment This test model does not contain any IfcFlowTerminal	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports. This test model does not contain any IfcFlowTerminal.	
120 Spatial Containment	This test model does not contain any IfcFlowTerminal.	
130 Grouping		
130-2 Grouping to Systems	This test model does not contain any IfcFlowTerminal.	
200 Material		
200-1 Single Material	This test model does not contain any IfcFlowTerminal.	
210 Property Set		
210-6 Property Set IFC any	This test model does not contain any IfcFlowTerminal.	
210-9 Property Set User Defined	This test model does not contain any IfcFlowTerminal.	
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry. This test model does not contain any IfcFlowTerminal.	
300-2 Type Naming	This test model does not contain any IfcFlowTerminal.	
300-3 Type Material	CADS Planner does not support type geometry. This test model does not contain any IfcFlowTerminal.	
300-5 Type Property Set	This test model does not contain any IfcFlowTerminal.	
507 IfcSystem	company statement	DuplexHouse_Sanitary / 2x
010 Naming		
130 Grouping		
130-5 Is Group		

Restricted

Not Supported

250 System Assignment		
250-2 Services Spatial Element		
General	company statement	DuplexHouse_Sanitary / 2x3
_G4 Remarks		

DuplexHouse_Ventilation / 2x3

Supported

Restricted

Not Supported



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	Only IfcExtrudedAreaSolid type of SweptSolid is supported. But this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-5 Geometry Explicit	CADS Planner does not support Port assignment.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
207 IfcFlowMovingDevice	company statement	DuplexHouse_Ventilation / 2x
010 Naming		

020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Only IfcExtrudedAreaSolid type of SweptSolid is supported. But this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted. But this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support 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		

Restricted Not Supported 20

Supported

020 Placement 020-2 Placement Relative		
010 Naming		
210 IfcFlowTerminal	company statement	DuplexHouse_Ventilation / 2x3
130-2 Grouping to Systems		
130 Grouping		
120 Spatial Containment		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
110 Connectivity		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
100 Element Aggregation		
040-1 Geometric Presentation		
040 Presentation		
030-6-9 Geometry Mapped	CADS supports mapped geometry but this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not suppoted.But this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-1 Geometry SweptSolid	Only IfcExtrudedAreaSolid type of SweptSolid is supported.	
030-6 Geometry Body		
030 Geometry		

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	IfcExtrudedAreaSolid type of SweptSolid is supported. But this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-5 Geometry Explicit	CADS Planner supports two kind of brep representations IfcFacedBrep and IfcFaceBasedSurfaceModel. Shell based representation and faceted brep with voids are not supported. But this test case does not contain any, so those concepts are set to "not supported" state.	
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
07 IfcSystem	company statement DuplexHouse_Ventilation	1/2x3
010 Naming		
130 Grouping		
130-5 Is Group		
250 System Assignment		
250-2 Services Spatial Element		
General	company statement DuplexHouse_Ventilation	1/2x3
_G4 Remarks		

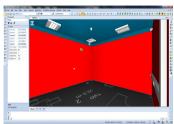
Restricted Not Supported

RandomMEP-X1 / 2x3

Supported

Restricted

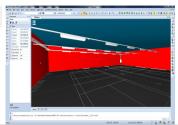
Not Supported



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102 IfcWall	company statement	RandomMEP-X1 / 2x3
001 GUIDs	IfcBeam is not included in CADS Planner MEP export.	
103 IfcBeam	company statement	RandomMEP-X1 / 2x3
002 History	IfcBeam is not included in CADS Planner MEP export.	
010 Naming	IfcBeam is not included in CADS Planner MEP export.	
104 lfcColumn	company statement	RandomMEP-X1 / 2x3
010 Naming	IfcBeam is not included in CADS Planner MEP export.	
206 IfcFlowFitting	company statement	RandomMEP-X1 / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-2 Type Naming		
208 IfcFlowSegment	company statement	RandomMEP-X1 / 2x3
210 IfcFlowTerminal	company statement	RandomMEP-X1 / 2x3
001 GUIDs		
010 Naming		

020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
408 IfcElementAssembly	company statement	RandomMEP-X1 / 2x3
001 GUIDs	IfcElementAssembly is not included in CADS Planner MEP export.	
010 Naming	IfcElementAssembly is not included in CADS Planner MEP export.	
020 Placement		
020-2 Placement Relative	IfcElementAssembly is not included in CADS Planner MEP export.	
100 Element Aggregation		
100-1 Element Composition	IfcElementAssembly is not included in CADS Planner MEP export.	
100-2 Element Decomposition	IfcElementAssembly is not included in CADS Planner MEP export.	
General	company statement	RandomMEP-X1 / 2x3
_G4 Remarks		

RandomMEP-X2 / 2x3



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205 IfcFlowController	company statement	RandomMEP-X2 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
050 CAD Layer		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port Assignment.	
06 IfcFlowFitting	company statement	RandomMEP-X2 / 2x3
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port Assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	

07 IfcFlowMovingDevice	company statement	RandomMEP-X2 / 2x
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	CADS Planner does not support Port Assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity By ports.	
120 Spatial Containment		
200 Material		
200-1 Single Material	CADS Planner MEP does not support single material naming.	
210 Property Set		
210-9 Property Set User Defined		
08 lfcFlowSegment	company statement	RandomMEP-X2 / 2x
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		

Restricted

Not Supported

100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port Assignment	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
210 lfcFlowTerminal	company statement	RandomMEP-X2 / 2x3
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port Assignment	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support connectivity by ports.	
General	company statement	RandomMEP-X2 / 2x3
_G4 Remarks		

RandomMEP-X3 / 2x3

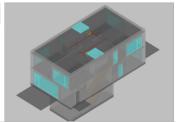
506 IfcGroup	company statement	RandomMEP-X3 / 2x3
001 GUIDs	CADS Planner MEP does not support IfcGroup element.	
010 Naming	CADS Planner MEP does not support IfcGroup element.	
130 Grouping		
130-5 Is Group	CADS Planner MEP does not support IfcGroup element.	
General	company statement	RandomMEP-X3 / 2x3
_G4 Remarks		

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Restricted

Not Supported

RandomMEP-X4 / 2x3



206 IfcFlowFitting	company statement	RandomMEP-X4 / 2x3
300 Type		
300-2 Type Naming		
208 IfcFlowSegment	company statement	RandomMEP-X4 / 2x3
001 GUIDs		
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	CADS Planner does not support Port Assignment.	
120 Spatial Containment		
200 Material		
200-1 Single Material	CADS Planner MEP does not support single material naming.	

210 Property Set		
210-9 Property Set User Defined		
210 IfcFlowTerminal	company statement	RandomMEP-X4 / 2x
300 Type		
300-2 Type Naming		
501 IfcProject	company statement	RandomMEP-X4/2x
002 History		
005 Project Units		
005-2 Project Imperial Units	CADS Planner does not support imperial units.	
008 Representation Context		
008-1 Representation Main Context		
008-2 Representation Sub Context		
008-2-2 Representation Sub Context 3D		
08 lfcZone	company statement	RandomMEP-X4 / 2x
001 GUIDs	CADS Planner does not support IfcZone object.	
002 History	CADS Planner does not support IfcZone object.	
010 Naming	CADS Planner does not support IfcZone object.	
130 Grouping		
130-3 Grouping to Zones	CADS Planner does not support IfcZone object.	
210 Property Set		
210-6 Property Set IFC any	CADS Planner does not support IfcZone object.	
General	company statement	RandomMEP-X4 / 2x

RandomMEP-X5 / 2x3



110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support Connectivity By ports	
120 Spatial Containment		
200 Material		
200-1 Single Material	CADS Planner MEP does not support single material naming.	
210 Property Set		
210-9 Property Set User Defined	CADS Planner only supports IFC common property set and application specific property sets.	
208 IfcFlowSegment	company statement Randomi	MEP-X5 / 2x3
001 GUIDs		
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		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port Assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support Connectivity by ports	
200 Material		
200-1 Single Material	CADS Planner MEP does not support single material naming.	

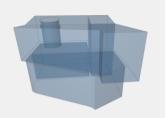
300 Type		
300-1 Type Geometry	CADS Planner does not support type geometry.	
300-3 Type Material	CADS Planner does not support type material.	
0 IfcFlowTerminal	company statement	RandomMEP-X5 / 2x
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
100 Element Aggregation		
100-4 Port Assignment	CADS Planner does not support Port Assignment.	
110 Connectivity		
110-5 Connectivity by Ports	CADS Planner does not support Connectivity by ports	
200 Material		
200-1 Single Material	CADS Planner MEP does not support single material naming.	
210 Property Set		
210-9 Property Set User Defined	CADS Planner only supports IFC common property set and application specific property sets.	
3 IfcCovering	company statement	RandomMEP-X5 / 2x
001 GUIDs	IfcCovering object is not part of MEP certification.	

Restricted

Not Supported

020 Placement		
020-2 Placement Relative	IfcCovering object is not part of MEP certification.	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	IfcCovering object is not part of MEP certification.	
030-6-5 Geometry Explicit	IfcCovering object is not part of MEP certification.	
050 CAD Layer	IfcCovering object is not part of MEP certification.	
200 Material		
200-1 Single Material	IfcCovering object is not part of MEP certification.	
300 Type		
300-1 Type Geometry	IfcCovering object is not part of MEP certification.	
300-3 Type Material	IfcCovering object is not part of MEP certification.	
eneral	company statement	RandomMEP-X5 / 2x
_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	CADS Planner supports only predefined property sets.	
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	Only one clipping plane is supported.	

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	CADS Planner supports only predefined property sets.	
General	company statement	Space_01MEP / 2x3
_G4 Remarks		

UnitTest-01MEP / 2x3



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501 IfcProject	company statement	UnitTest-01MEP / 2x3
005 Project Units		
005-1 Project Metric Units		
005-2 Project Imperial Units	CADS Planner does not support Imperial units.	
General	company statement	UnitTest-01MEP / 2x3
_G4 Remarks		