Export IFC From Revit

On this page, we will explain how to export an IFC file from Revit for use in the SURAP webtool.

Note: For this demonstration, we will be using Revit 2023. However, the guidance provided should remain applicable to all versions of Revit that support exporting IFC 4 files.

To Export IFC File from Revit:

- 1. Go to Revit and open the project you need to Use
- 2. Go to File \rightarrow Export \rightarrow IFC



3. Click on **Modify setup.**

			-
File name:	C:\Users\salah\source\repos\WebTool\SurapWeb.IFCDa	taReader.Ur	Browse
Current selected setup:	<in-session setup=""> v</in-session>	Modify	setup
IFC Version:	IFC4 Design Transfer View		
Coordinate Base	Shared Coordinates		
Project Site	Internal		
Projects to export:			
Case study Revit model-bla	ank2023240201_dg		

4. Click On the Add button in the bottom left side.

<in-session setup=""></in-session>	General	Additional Content	Property Sets	Level of Detail	Advanced	Geographic Reference	
<ifc 2.0="" 2x3="" coordination="" setup="" view=""> <ifc 2x3="" coordination="" setup="" view=""> <ifc 2010="" 2x3="" bim="" concept="" design="" gsa="" setur<="" td=""><td>IFC ver Exchar</td><td>rsion nge Requirement</td><td></td><td colspan="4">IFC4 Design Transfer View</td></ifc></ifc></ifc>	IFC ver Exchar	rsion nge Requirement		IFC4 Design Transfer View			
<ifc 2x3="" basic="" fm="" handover="" setup="" view=""> <ifc 2x2="" coordination="" setup="" view=""></ifc></ifc>	File typ	be		IFC			
< IFC2x3 COBie 2.4 Design Deliverable View Se < IFC4 Reference View [Architecture] Setup >	Phase	to export		Default ph	ase to expor	t	
<ifc4 [structural]="" reference="" setup="" view=""> <ifc4 [buildingservice]="" reference="" setup<br="" view=""><ifc4 design="" setup="" transfer="" view=""></ifc4></ifc4></ifc4>	Space	boundaries		None			,
	🗌 Spli	t Walls, Columns, Duc	ts by Level			File Header Information.	

5. Input SURAP Webtool as a name for this Setup.

<in-session setup=""></in-session>	General	Additional Content	Property Sets	Level of Detail	Advanced	Geographic Reference		
<ifc 2.0="" 2x3="" coordination="" setup="" view=""><ifc 2x3="" coordination="" setup="" view=""><ifc 2010="" 2x3="" bim="" concept="" design="" gsa="" p="" setup<=""></ifc></ifc></ifc>	IFC ver Exchan	sion ge Requirement		IFC4 Desig	sign Transfer View			
CIFC 2x3 Basic FM Handover View Setup>	File type			IFC				
(IFC2x3 COBie 2.4 Design Deliverable View Se (IFC4 Reference View [Architecture] Setup>	Phase to export				phase to export			
<ifc4 [structural]="" reference="" setup="" view=""></ifc4>	New expe	ort setup		×				
<pre><ifc4 <ifc4="" [buildingservice]="" design="" reference="" setup="" transfer="" view=""></ifc4></pre>	Name							
	SURAP	Webtool						
			ОК	Cancel				
	Spli	t Walls, Columns, Duc ude Steel Elements	ts by Level			File Header Information Project Address		
>	✓ Incl	✓ Include Steel Elements			Project Address			

6. Select the IFC Version to Be IFC4 Reference View.

<in-session setup=""> Ge</in-session>	eneral	Additional Content	Property Sets	Level of Detail	Advanced	Geographic Reference
<ifc 2.0="" 2x3="" coordination="" setup="" view=""><ifc 2x3="" coordination="" setup="" view=""><ifc 2010="" 2x3="" bim="" concept="" design="" gsa="" p="" setup<=""><ifc 2010="" 2x3="" bim="" concept="" design="" gsa="" p="" setup<=""><ifc 2x3="" coordination="" setup="" view=""><ifc 2x2="" coordination="" setup="" view=""><ifc4 [architecture]="" reference="" setup="" view=""><ifc4 [structural]="" reference="" setup="" view=""><ifc4 [buildingservice]="" p="" reference="" setup<="" view=""><ifc4 [unofficial]="" design="" p="" setup:<="" transfer="" view=""><ifc4x3 setup=""><ifc-sg p="" regulatory="" requirements="" setup<="" view="">FC Export nach AVA</ifc-sg></ifc4x3></ifc4></ifc4></ifc4></ifc4></ifc></ifc></ifc></ifc></ifc></ifc>	Setup> tup> IFC version BIM 2010 Setup iew Setup> tup> Exchange Requirem category Mapping verable View Se ture] Setup> File type al] Setup> Phase to export spervice] Setup Space boundaries nofficial] Setup Space boundaries			IFC4 Refere IFC 2x2 Coa IFC 2x3 Coa IFC 2x3 Coa IFC 2x3 GSA IFC 2x3 Bas IFC 2x3 Bas IFC2x3 COE IFC4 Refere IFC4 Design IFC4 x3 IFC-SG Reg	ence View ordination V ordination V ordination V A Concept E sic FM Hand Bie 2.4 Desig ence View in Transfer Vi gulatory Req	iew iew 2.0 Design BIM 2010 over View In Deliverable View iew [Unofficial] uirements View
SURAP Webtool	Split	Walls, Columns, Duc	ts by Level		File	Header Information

7. Select the Exchange Requirement to be Architectural Reference Exchange.

Modify Setup

<in-session setup=""></in-session>	General	Additional Content	Property Sets	Level of Detail	Advanced	Geographic	Reference
<ifc 2.0="" 2x3="" coordination="" setup="" view=""> <ifc 2x3="" coordination="" setup="" view=""></ifc></ifc>	IFC ver	sion		IFC4 Refere	ence View		
<ifc 2010="" 2x3="" bim="" concept="" design="" gsa="" setur<="" td=""><td>Exchan</td><td>ge Requirement</td><td></td><td>Architectur</td><td>ral Reference</td><td>e Exchange</td><td></td></ifc>	Exchan	ge Requirement		Architectur	ral Reference	e Exchange	
<ifc 2x2="" coordination="" setup="" view=""></ifc>	Catego	ory Mapping		MEP Refere	ral Reference ence Exchan	e Exchange ge	
<ifc2x3 2.4="" cobie="" deliverable="" design="" se<br="" view=""><ifc4 [architecture]="" reference="" setup="" view=""></ifc4></ifc2x3>	2x2 Coordination View Setup> Category Mapping MEP Reference Exchange x3 COBie 2.4 Design Deliverable View Se File type Structural Reference Exchange Reference View [Architecture] Setup> Phase to export Default phase to export Reference View [BuildingService] Setup Space boundaries None Design Transfer View [Unofficial] Setup: x3 Setup> SG Regulatory Requirements View Setup port nach AVA File Setup Structural Reference Setup						
<ifc4 [structural]="" reference="" setup="" view=""></ifc4>	Phase	to export		Default ph	ase to expor	t	
<ifc4 [unofficial]="" design="" setup:<br="" transfer="" view=""><ifc4x3 setup=""> <ifc-sg regulatory="" requirements="" setup<br="" view="">IFC Export nach AVA SURAP Webtool</ifc-sg></ifc4x3></ifc4>	Space	boundaries t Walls, Columns, Duc	ts by Level	None			
					File	Header Inform	mation
< >>						Project Addre	255
* I M				Reset		OK	Cancel

8. Go to Property Sets Tab then check **Export Revit property sets**, **Export IFC common property sets**, **Export base quantities** then click on OK.

<in-session setup=""> <ifc 2.0="" 2x3="" coordination="" setup="" view=""> <ifc 2x3="" coordination="" setup="" view=""> <ifc 2010="" 2x3="" bim="" concept="" design="" gsa="" setup<br=""><ifc 2x3="" basic="" fm="" handover="" setup="" view=""> <ifc 2x2="" coordination="" setup="" view=""> <ifc 2.4="" 2x3="" cobie="" deliverable="" design="" se<br="" view=""><ifc4 [architecture]="" reference="" setup="" view=""> <ifc4 [structural]="" reference="" setup="" view=""></ifc4></ifc4></ifc></ifc></ifc></ifc></ifc></ifc></in-session>	General	Additional Content ort Revit property sets ort IFC common prop- ort base quantities ort material property : ort schedules as prop- Export only schedules ort user defined property	Property Sets erty sets sets containing IFC, erty sets	Level of Detail	Advanced	Geographic Reference
<ifc4 [buildingservice]="" reference="" setup<br="" view=""><ifc4 [unofficial]="" design="" setup:<br="" transfer="" view=""><ifc4x3 setup=""> <ifc-sg regulatory="" requirements="" setup<br="" view="">IFC Export nach AVA SURAP Webtool</ifc-sg></ifc4x3></ifc4></ifc4>	Expe	ort parameter mappin	g table			Browse
< >>		Classification Settir	ıgs			

9. Make sour that the new SURAP webtool Setup is selected and press on Export

Export IFC			
File name:	C:\Users\h\source\repos\WebTool\Sur	apWeb.IFCDataReader.Ur	Browse
Export setup:	SURAP Webtool	Y Modify	[,] setup
IFC Version:	IFC4 Reference View		
Coordinate Base	Shared Coordinates		
Project Site	Intern		
Projects to export:			
2025			
How do I specify an export s	etup?	Export	Cancel

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