

4D SCHEDULING WITH SYNCHRO PRO

User Manual Guide

Algonquin College
Building Information Modelling and
School of Advanced Technology

Table of Contents

Legal and Liability Statement	1
Getting Started	2
Product Description	2
Conventions Used in This Manual	3
Computer Requirements	3
Partner Applications	4
Revit	4
Primavera P6	4
MS Project	4
Cost	4
Installations	5
Installing Synchro Pro	5
To Download Synchro Pro	5
To Install Synchro Pro	8
Installing the Synchro Revit Plugin	10
To Download the Revit Plugin	10
To Install the Revit Plugin	11
Exporting	13
Exporting from the Revit Synchro Plugin	13
To Manage Settings	13
To Export a File	14
Exporting from IFC	15
To Overview IFC Options	15
To Export from Revit to IFC	16
Importing	18
Importing the 3D Model	18
To Import from Revit to SPX	18
To Import IFC to Synchro Pro	21
To Select 3D Object Options	24
Importing the Schedules and Plans	25
To Import a Schedule from MS Project XML	25

To Format the Date Display Options	28
4D Linking Process	29
Creating a Selection Set from a 3D Filter	29
To Create a Selection Set from a 3D Filter	29
To Create a Selection Set from a 3D Object	32
Linking a Selection Set with a Task	36
To Link a Selection Set with a Task	36
Creating an Animation	40
To Create an Animation	40
To Define the Start and End of your Animation	41
To Define the Camera Angles	41
Exporting an Animation	42
To Export an Animation.....	42
To Format the Resolution Properties.....	43
To Format the Video Content Properties	44
Subdividing 3D Objects	45
To Subdivide 3D objects	45
Troubleshooting	46
Importing and Exporting	46
Animating	47
Subdivision	48
External Resources.....	49
Appendix A – 4D Scheduling Process Map	50
Appendix B – Partner Applications	51
Design Interoperability with CAD Systems.....	51
Scheduling Interoperability with Project and Programming Management Software.....	52
Appendix C – Glossary	53
Index	55
Works Cited	56