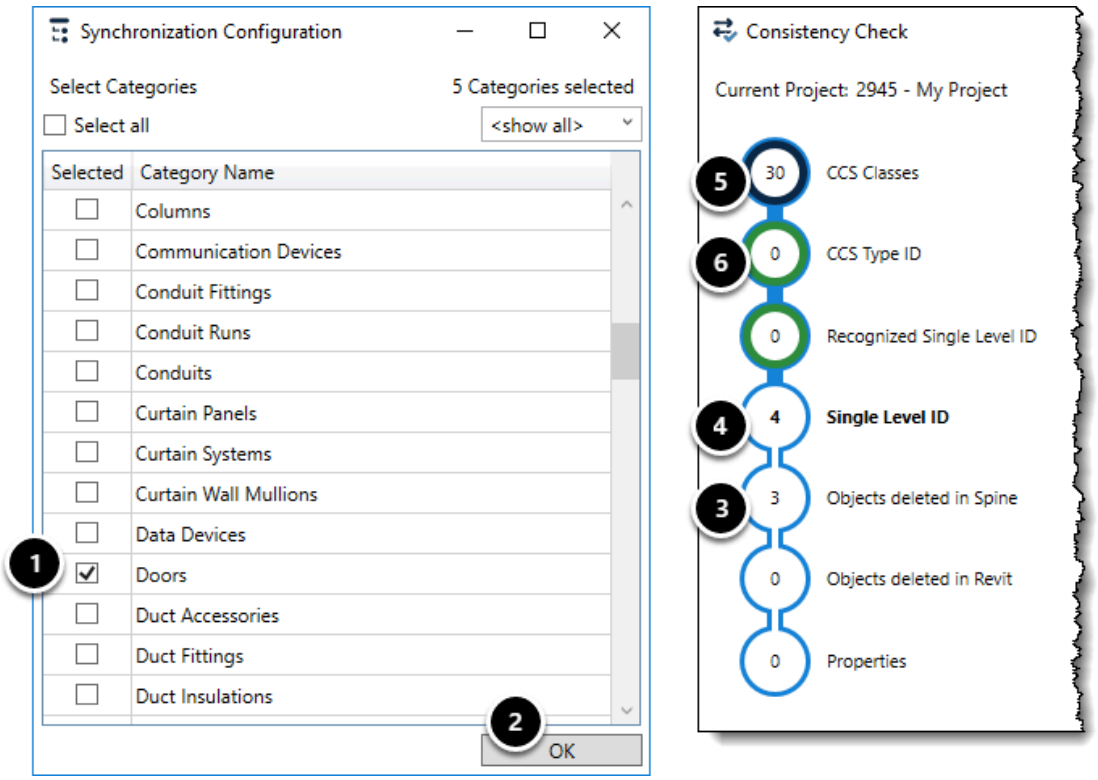
Consistency Check

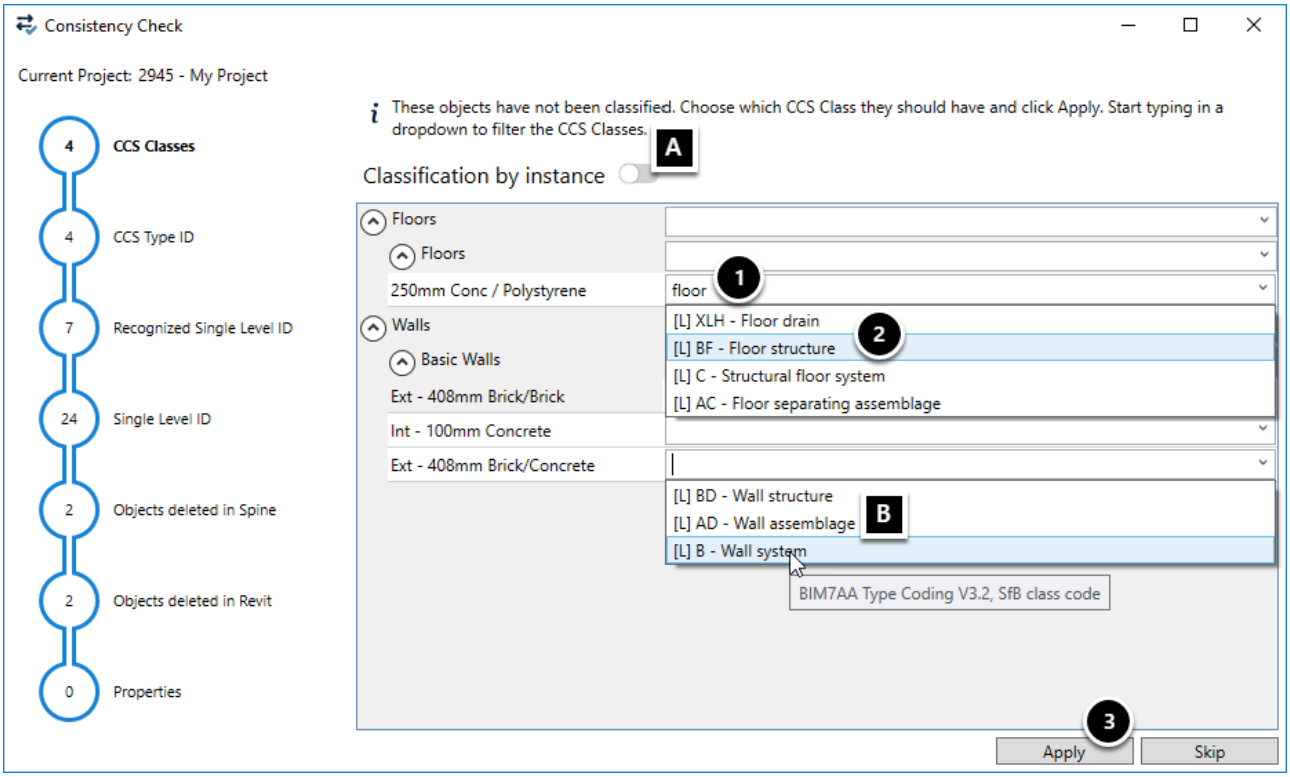
Check the consistency between Revit files and spine Projects. Check for missing or inconsistency data.
Consistency Check Tutorial (Video English)

1. Synchronization Configuration and process line



1. Select Revit categories to be checked
2. Click OK
3. Number of issues
4. Bold text indicate the current step
5. The blue color indicate that there is still issues to be considered
6. The green color indicate that all issues has been handled

2. CCS Classes

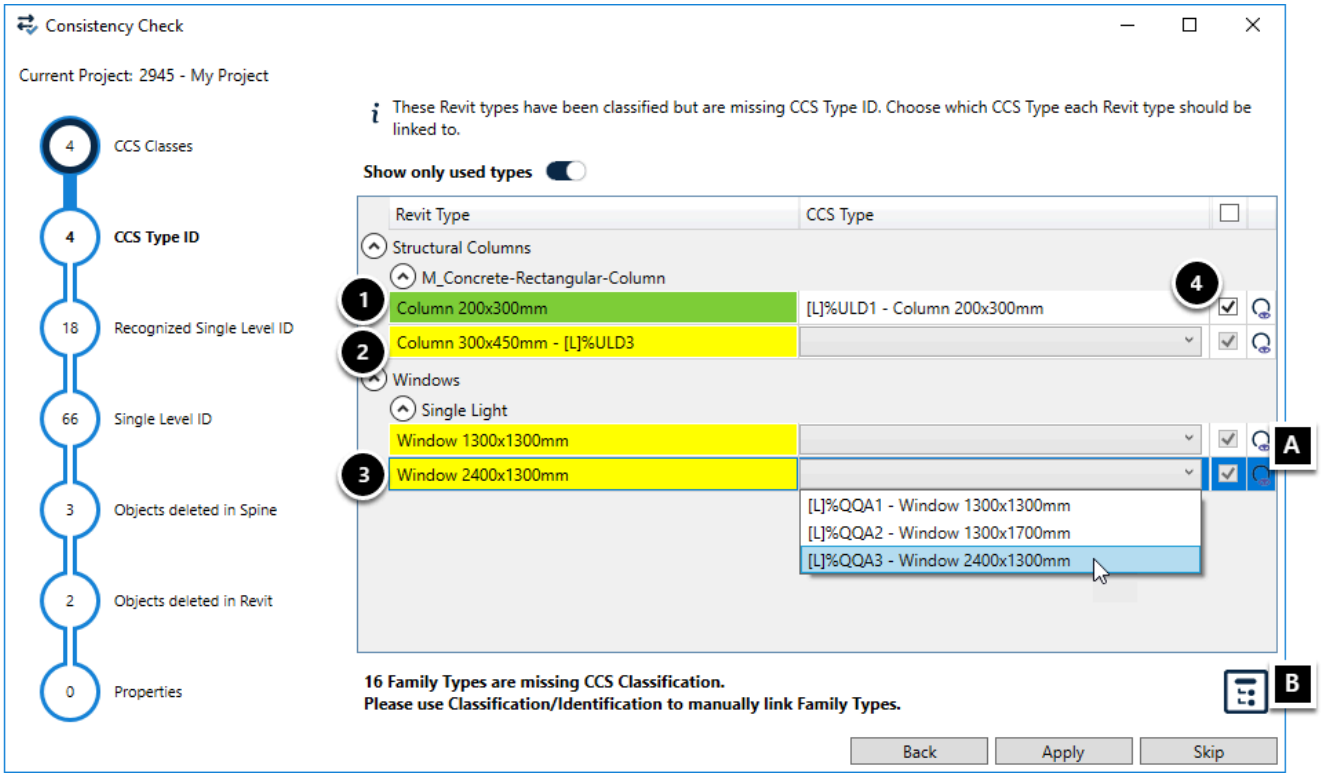


Objects without a CCS Class

1. Type in a synonym for the class
2. Select a class
3. Click Apply

A: Toggle 'Classification by instance' to add classes as instance parameters
B: If an object have a class from another standard, the dropdown display suggested CCS classes

3. CCS Type ID

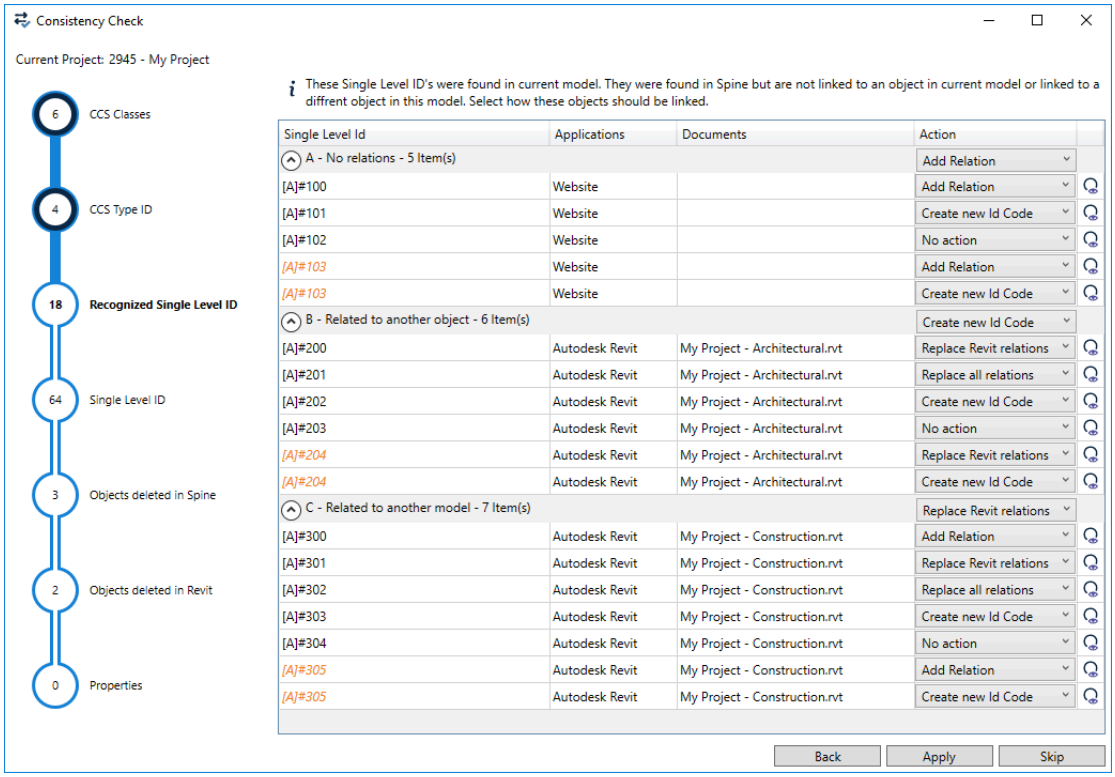


Objects with a CCS Class, but without a CCS Type

1. The Revit Type is linked to a CCS Type in another file, and that type is suggested
2. The Revit Type has been linked to the CCS Type [L]%ULD3, which no longer exist in the spine Project. Select a new CCS Type
3. The drop-down display CCS Types within the CCS Class
4. Tick types to be linked

A: See Revit Type in the model
B: Go to classification

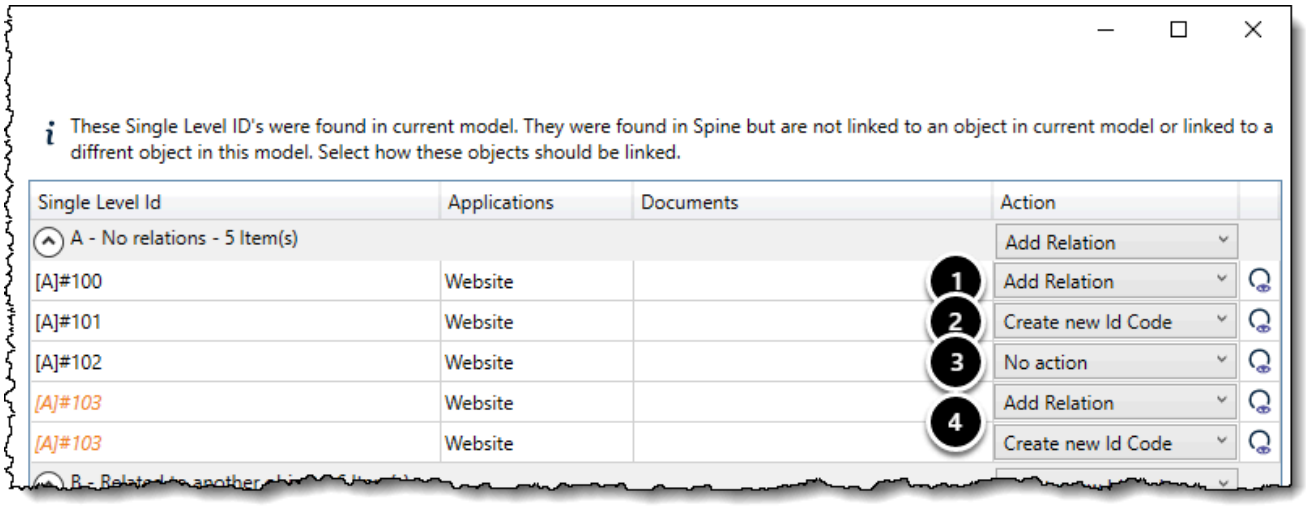
4. Recognized Single Level ID



Single Level ID's in the current model with a mismatch in relations.
If an ID appears multiple times in a document, it is displayed in *cursive and orange* and the relation can only be added to one of the objects.

A - No relations

ID Code was found in the spine project, but has no relations to any documents.
Actions:
Add Relation: Adds a new relation between Revit object and spine object. Relations to other models or applications remains.
Create new Id Code: Creates a new Id Code with next available number. Current Id Code will be replaced with the newly created.
No action: Revit object will not be related to a spine object.



A	B	C	D	E	F
Name	Number	CCS Topnode	CCS Class Code	CCS Class Name	CCS Single Level ID
Corridor	06	[A]	EAC	Corridor	[A]#100
Corridor	13	[A]	EAC	Corridor	[A]#101
Corridor	23	[A]	EAC	Corridor	[A]#102
Corridor	24	[A]	EAC	Corridor	[A]#103
Corridor	30	[A]	EAC	Corridor	[A]#103

Result:

1. **Add Relation:** *'Corridor 06'* is related to spine object *[A]#100*
2. **Create new Id Code:** *'Corridor 13'* is related to a new spine object *[A]#3*, and spine object *[A]#101* is not related to the current model
3. **No action:** Nothing happens to *'Corridor 23'*
4. *'Corridor 24'* and *'Corridor 30'* has the same CCS Single Level ID value *[A]#103*. Select one to be related to spine object *[A]#103* and one to get a new ID Code
   Create new Id Code: *'Corridor 24'* is related to new spine object *[A]#4*
   Add Relation: *'Corridor 30'* is related to spine object *[A]#103*

A	B	C	D	E	F
Name	Number	CCS Topnode	CCS Class Code	CCS Class Name	CCS Single Level ID
Corridor	06	[A]	EAC	Corridor	[A]#100
Corridor	13	[A]	EAC	Corridor	[A]#3
Corridor	23	[A]	EAC	Corridor	[A]#102
Corridor	24	[A]	EAC	Corridor	[A]#4
Corridor	30	[A]	EAC	Corridor	[A]#103

B - Related to another object

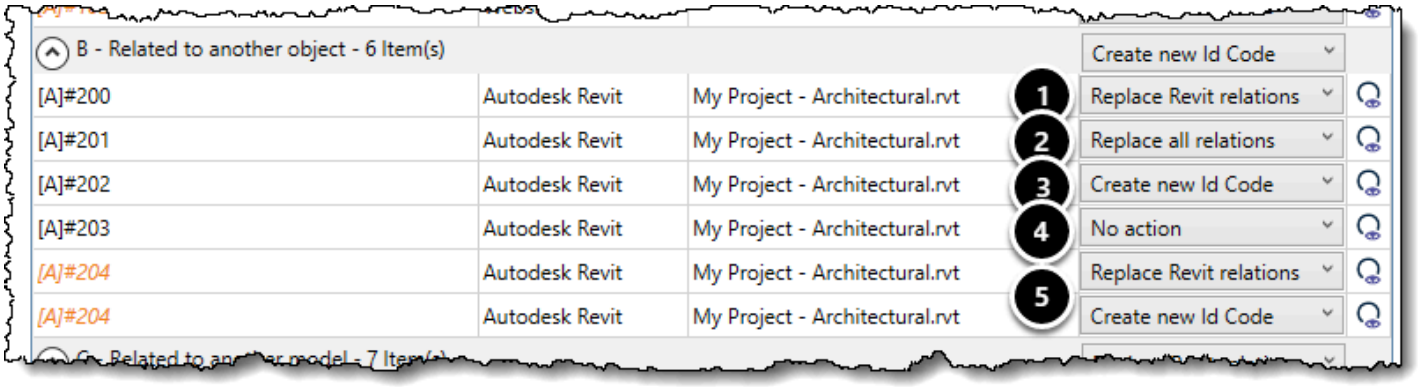
ID Code already has a relation in current model, but it differs from the object defined in the spine project.

Actions:

Replace Revit relations: Replaces all Revit relations. This deletes all other Revit model relations. Relations to other applications are not affected by this action.

Replace all relations: Replace all previous relations. This deletes all other relations regardless

application.
Create new Id Code: Creates a new Id Code with the next available number. Current Id Code will be replaced with the newly created.
No action: Revit object will not be related to a spine object.



A	B	C	D	E	F
Name	Number	CCS Topnode	CCS Class Code	CCS Class Name	CCS Single Level ID
Office	21	[A]	ADA	Office	[A]#200
Office	22	[A]	ADA	Office	[A]#201
Office	38	[A]	ADA	Office	[A]#202
Office	40	[A]	ADA	Office	[A]#203
Office	41	[A]	ADA	Office	[A]#204
Office	42	[A]	ADA	Office	[A]#204
Office	50	[A]	ADA	Office	

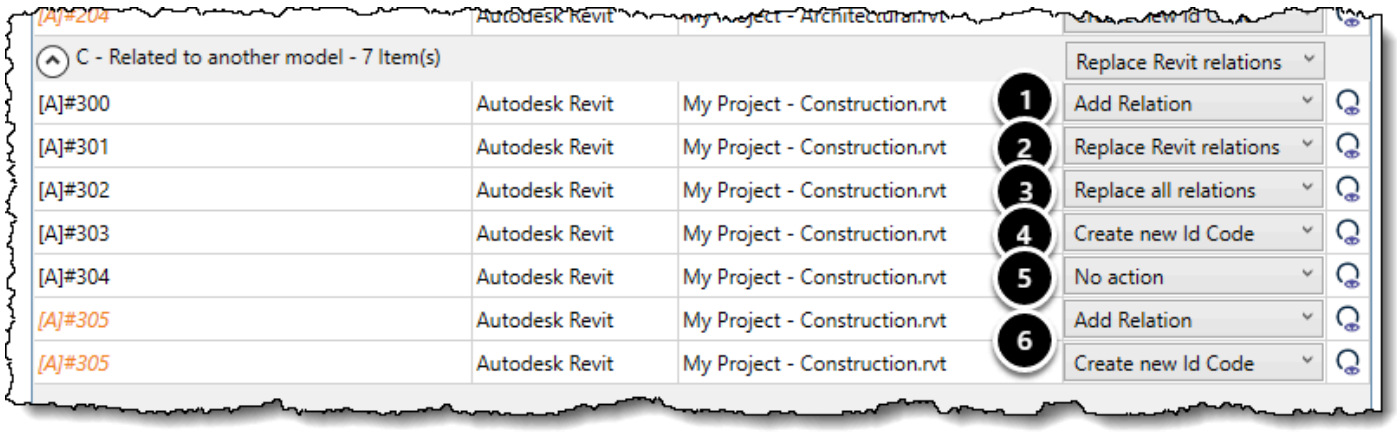
Result:

1. **Replace Revit relations:** 'Office 21' is related to spine object *[A]#200*. All other Revit model relations to *[A]#200* is deleted
2. **Replace all relations:** *'Office 22'* is related to spine object *[A]#201*. All other relations to *[A]#201* is deleted
3. **Create new Id Code:** *'Office 38'* is related to new spine object [A]#5 and spine object *[A]#202* will not be related to the current model
4. **No action:** *'Office 40'* still has the Single Level ID value *[A]#203*, but spine object *[A]#203* is not related to the Revit object
5. *'Office 41'* and *'Office 42'* has the same CCS Single Level ID value *[A]#204*. Select one to be related to spine object *[A]#204* and one to get a new ID Code
   Replace Revit relations: *'Office 41'* is related to *[A]#204*
   Create new Id Code: *'Office 42'* is related to new spine object *[A]#6*

A	B	C	D	E	F
Name	Number	CCS Topnode	CCS Class Code	CCS Class Name	CCS Single Level ID
Office	21	[A]	ADA	Kontor	[A]#200
Office	22	[A]	ADA	Kontor	[A]#201
Office	38	[A]	ADA	Kontor	[A]#5
Office	40	[A]	ADA	Kontor	[A]#203
Office	41	[A]	ADA	Kontor	[A]#204
Office	42	[A]	ADA	Kontor	[A]#6

C - Related to another model

ID Code is related to an object in another model.
Actions:
Add Relation: Adds a new relation between Revit object and spine object. Relations to other models or applications remains.
Replace Revit relations: Replaces all Revit relations. This deletes all other Revit model relations. Relations to other applications are not affected by this action.
Replace all relations: Replace all previous relations. This deletes all other relations regardless application.
Create new Id Code: Creates a new Id Code with next available number. Current Id Code will be replaced with the newly created.
No action: Revit object will not be related to a spine object.



A	B	C	D	E	F
Name	Number	CCS Topnode	CCS Class Code	CCS Class Name	CCS Single Level ID
Toilet	07	[A]	ABB	Toilet	[A]#300
Toilet	08	[A]	ABB	Toilet	[A]#301
Toilet	15	[A]	ABB	Toilet	[A]#302
Toilet	16	[A]	ABB	Toilet	[A]#303
Toilet	25	[A]	ABB	Toilet	[A]#304
Toilet	26	[A]	ABB	Toilet	[A]#305
Toilet	32	[A]	ABB	Toilet	[A]#305

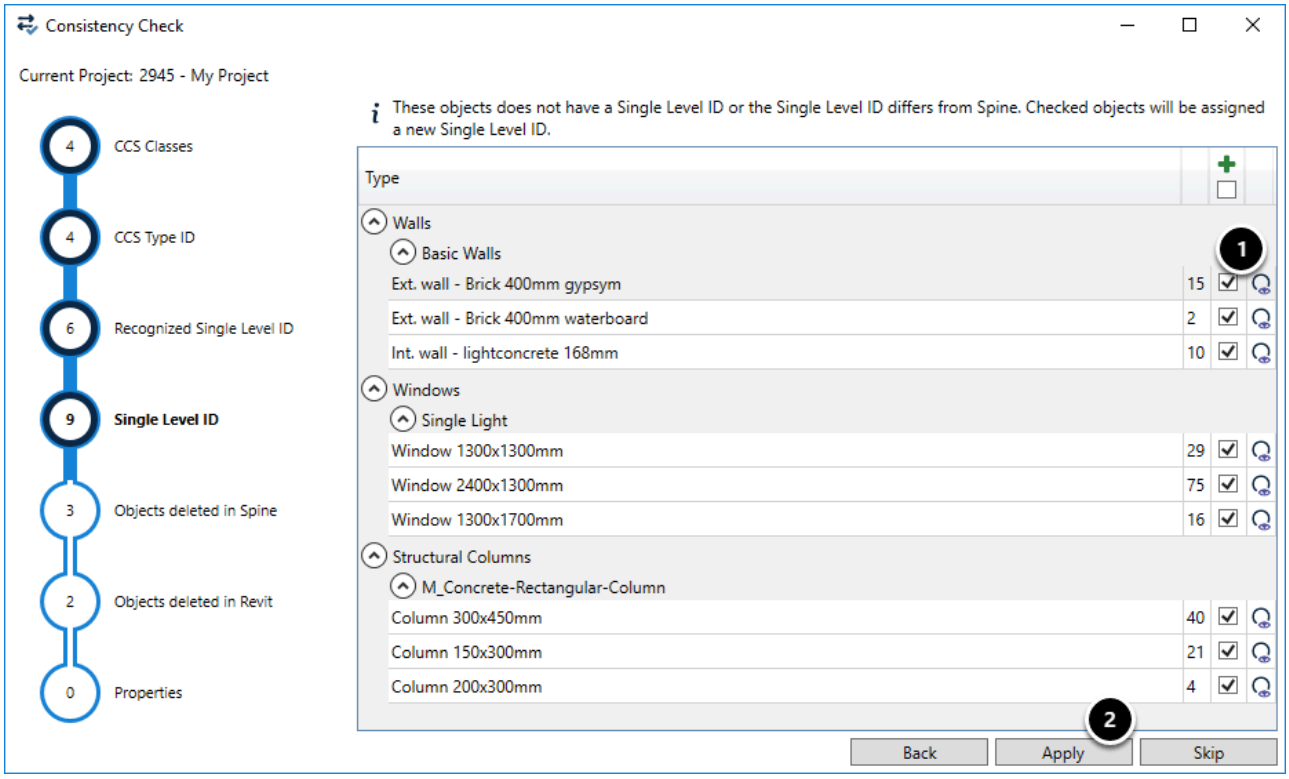
Result:

1. **Add Relation:** *'Toilet 07'* is related to spine object *[A]#300*. spine object *[A]#300* is still related to a Revit object in another model
2. **Replace Revit Relations:** *'Toilet 08'* is related to spine object *[A]#301*. spine object *[A]#301* is no longer related to a Revit objects in another model
3. **Replace all Relations:** *'Toilet 15'* is related to a spine object *[A]#302*. spine object *[A]#302* is no longer related to objects in other models
4. **Create new Id Code:** *'Toilet 16'* is related to a new spine object *[A]#7*.
5. **No Action:** Nothing happens
6. *'Toilet 26'* and *'Toilet 32'* has the same CCS Single Level ID value *[A]#305*. Select ont to be related to spine object *[A]#305* and one the get a new ID Code

Add Relation: *'Toilet 26'* is related to *[A]#305*
Create new Id Code: *'Toilet 32'* is related to new spine object *[A]#8*

A	B	C	D	E	F
Name	Number	CCS Topnode	CCS Class Code	CCS Class Name	CCS Single Level ID
Toilet	07	[A]	ABB	Toilet	[A]#300
Toilet	08	[A]	ABB	Toilet	[A]#301
Toilet	15	[A]	ABB	Toilet	[A]#302
Toilet	16	[A]	ABB	Toilet	[A]#7
Toilet	25	[A]	ABB	Toilet	[A]#304
Toilet	26	[A]	ABB	Toilet	[A]#305
Toilet	32	[A]	ABB	Toilet	[A]#8

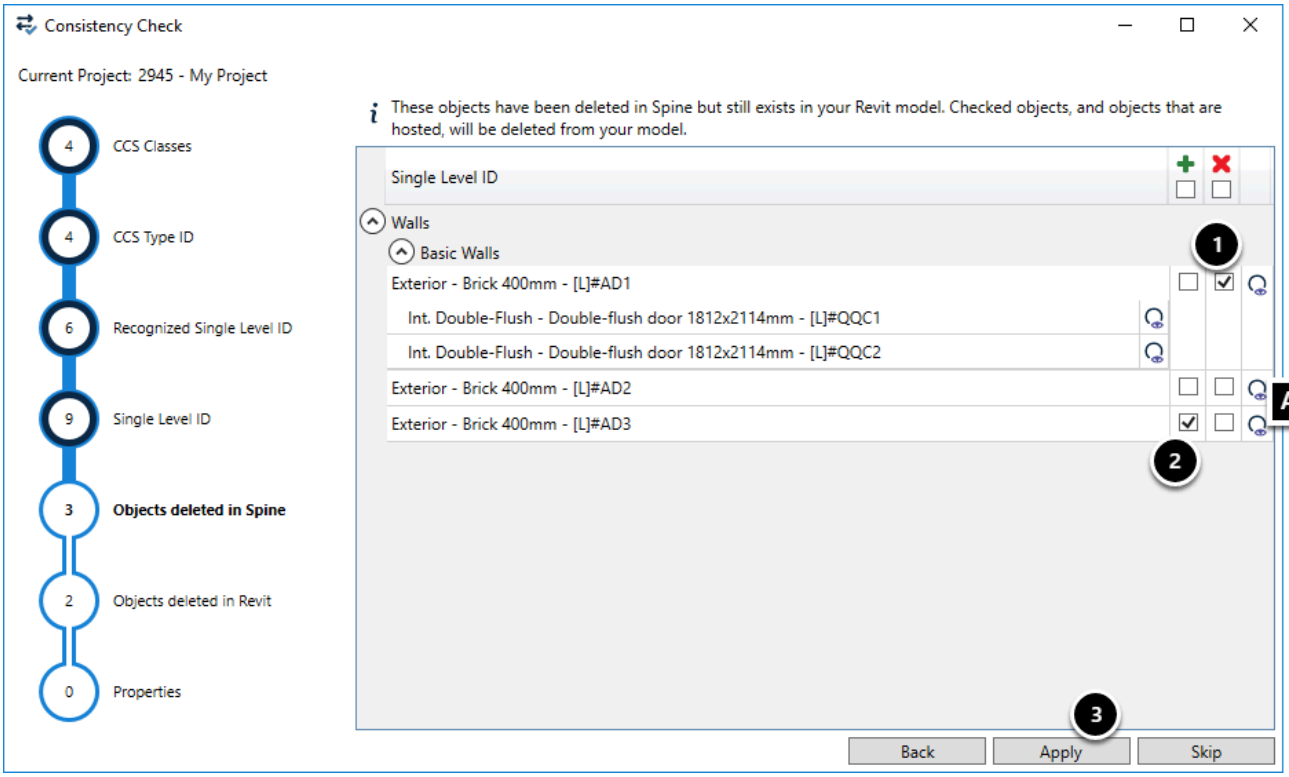
5. Single Level ID



Objects with a CCS Class, but without a Single Level ID

1. Tick objects to be assigned a Single Level ID
2. Click apply

6. Objects deleted in spine

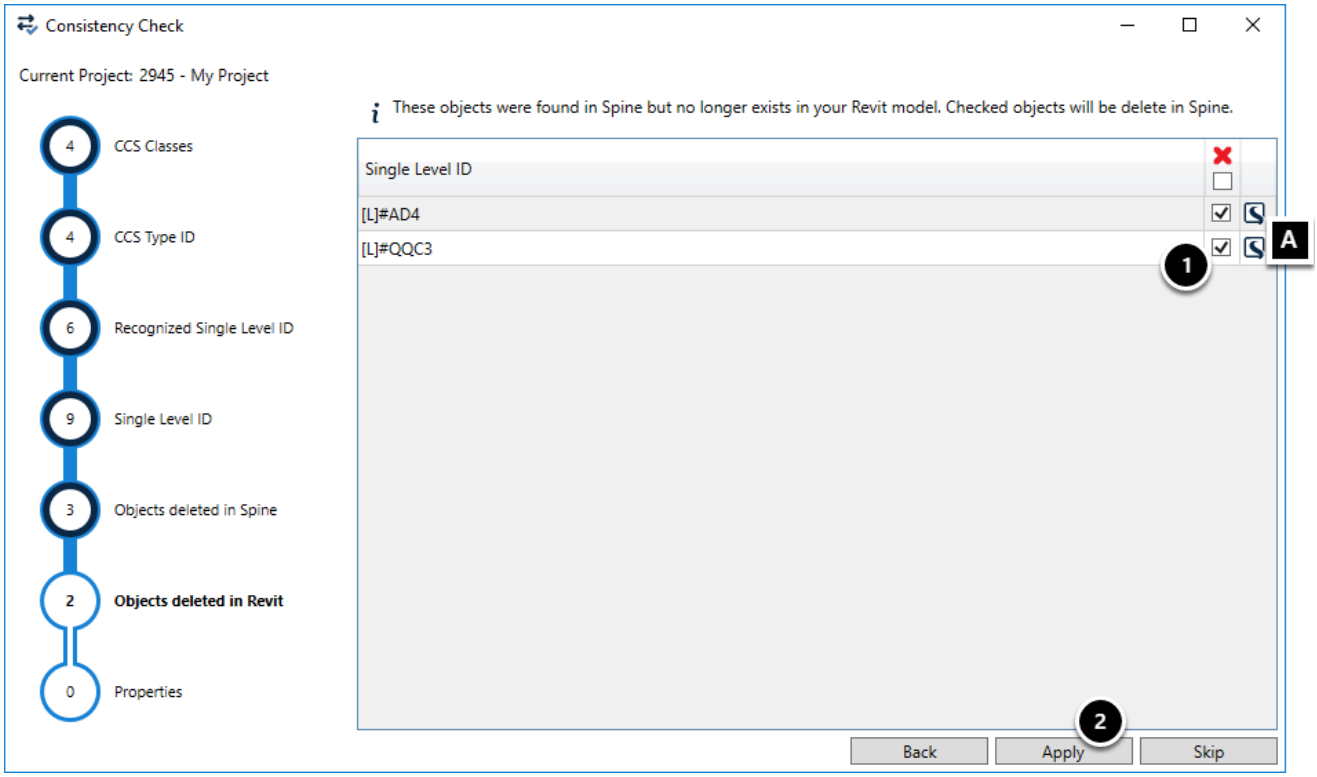


Objects deleted in the spine Projects, that still exist in the current Revit file.
Reassign a Single Level ID or delete the object in the Revit file.

1. Tick objects to be deleted in the Revit file
2. Tick objects to be reassigned a Single Level ID
3. Click apply

A: Display objects in the model

7. Objects deleted in Revit

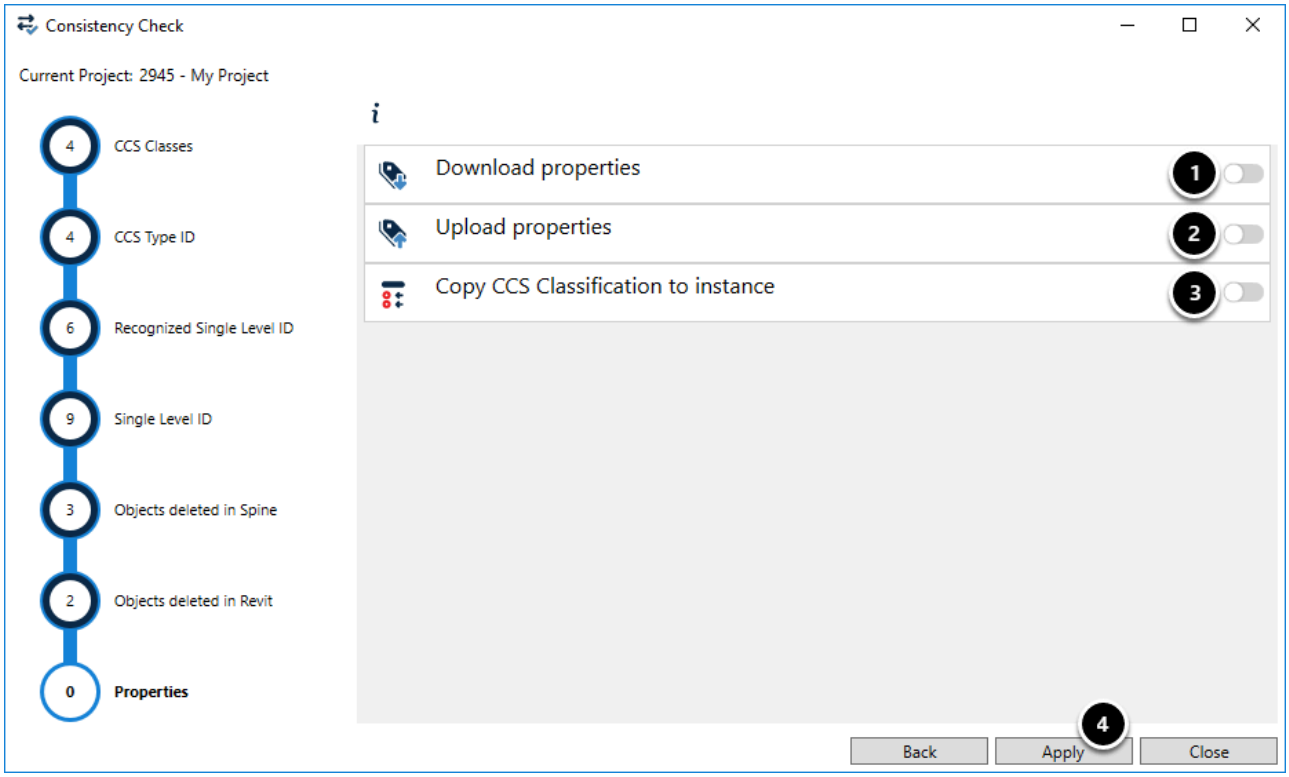


Objects found in the spine Project, which no longer exist in the current Revit file.

1. Tick objects to be deleted in the spine Project
2. Click apply

A: Display objects in the spine Desktop & Viewer

8. Properties



1. Download property values from the spine Project to the Revit file
2. Upload propertie values from the Revit file to the spine project
3. Copy CCS classification to instances
4. Click apply

9. Consistency Check Tutorial (Video English)