

Release Note

Release Date : . 2017

Product Ver. : nGen 2018 (v1.1)

Next Generation Software

for Integrated Analysis, Design, Drawing of Building Systems

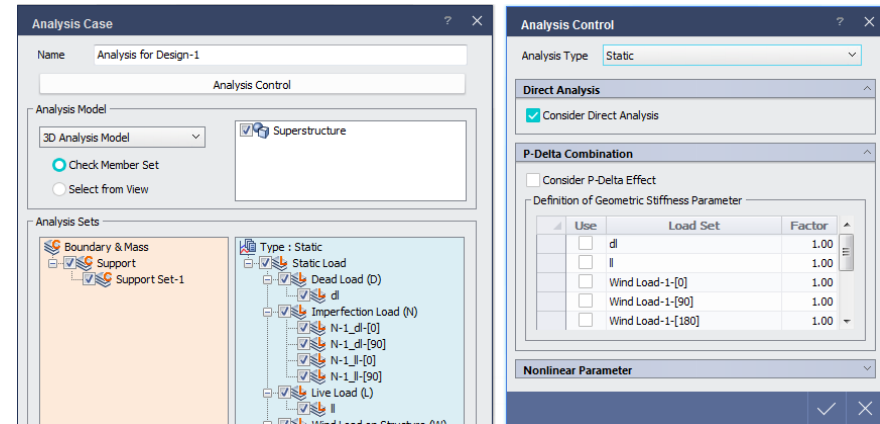
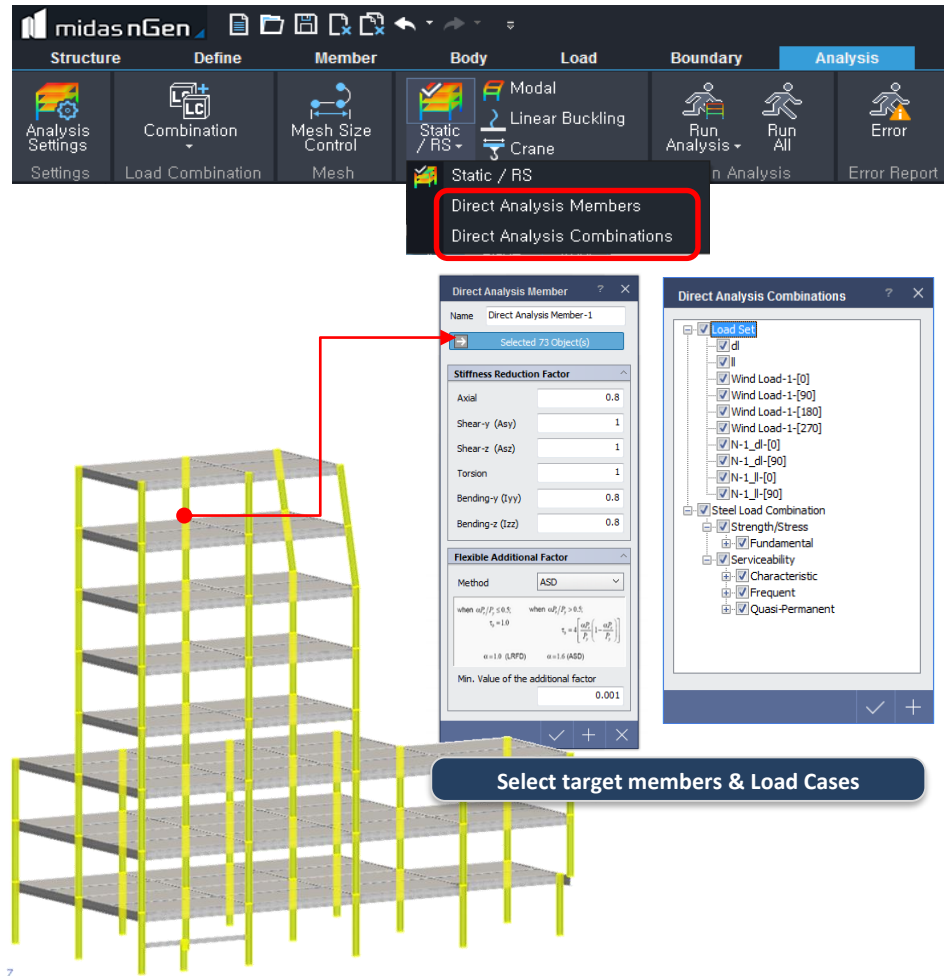
Enhancements

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1. Direct Analysis (New)

X & Y direction Shape Offset for 2D elements

Member > Shape Offset > Align Section



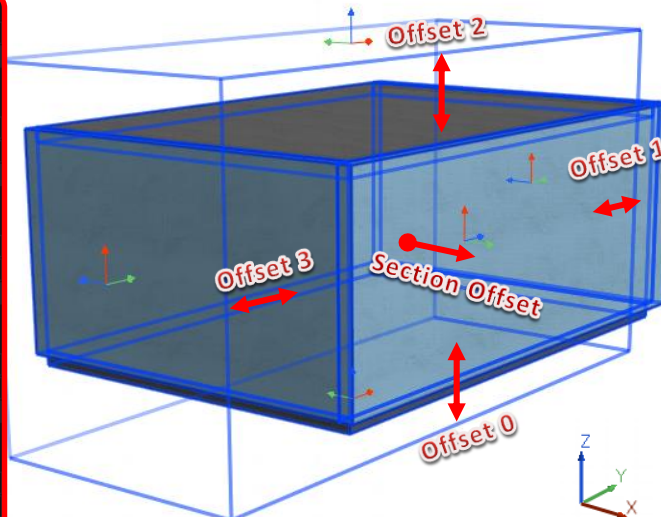
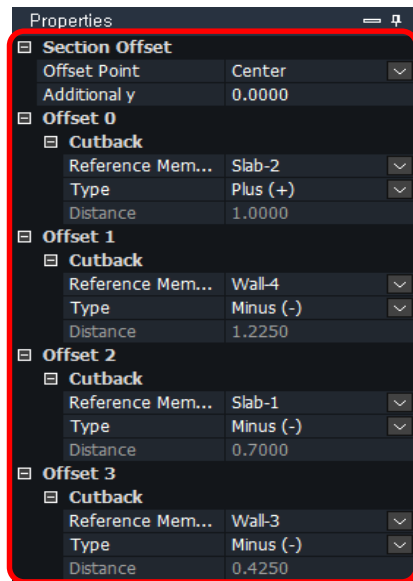
Analysis Option for Direct Analysis

Check “Consider Direct Analysis” in Analysis Control

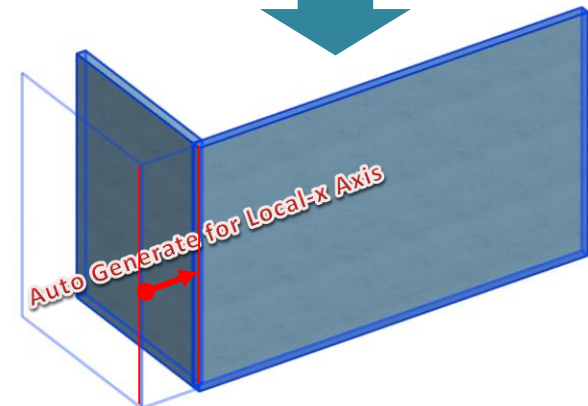
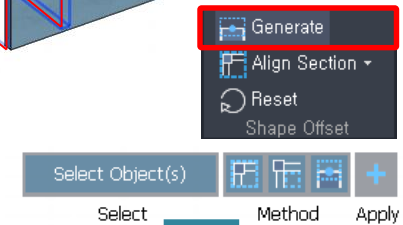
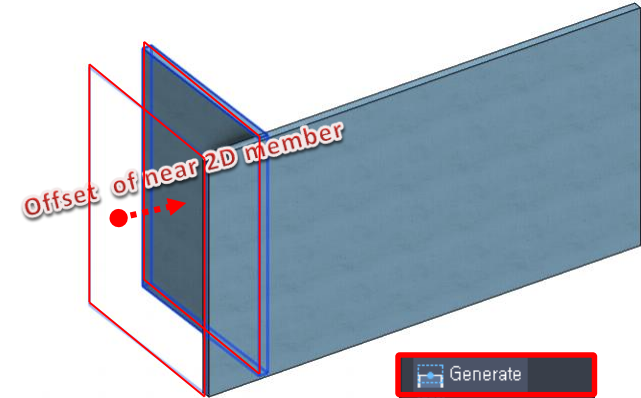
2. Shape offset for 2D members

Application for All Local Axis of 2D member

- **Auto Generate** : Member > Shape Offset > **Generate**
- **User Define** : Member > Shape Offset > **Align Section**
 - Apply Shape offset for all Local axis of 2D members.
 - Offset settings for Neighboring members by Auto-generation or User-defined.
 - Check offset data by each local axis in Properties
 - More accurate modeling and auto-generated drawings



Offset Check in Properties

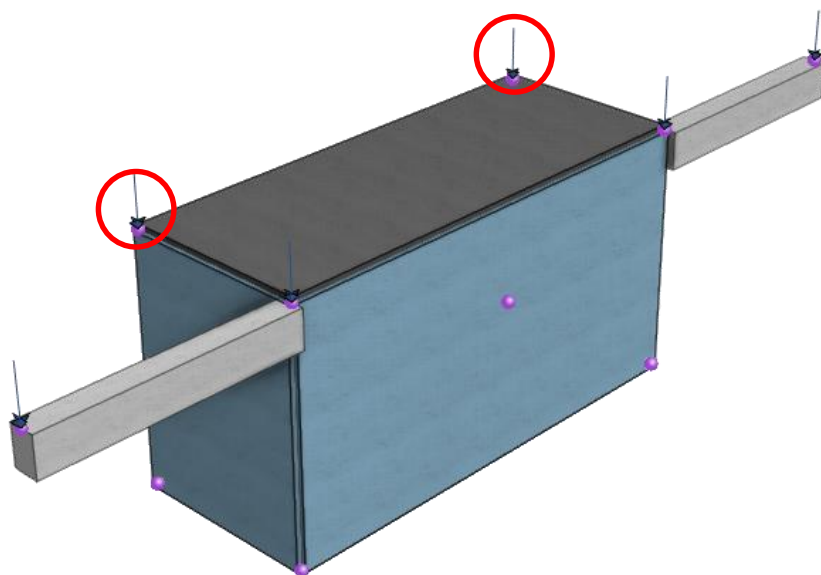


Offset setting by Auto-Generate

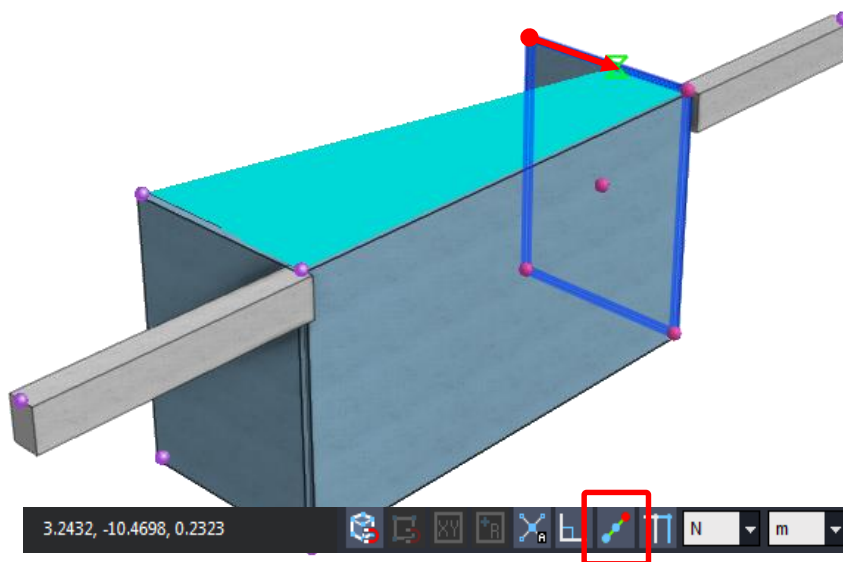
3. Addition of Sub-point for 2D member

Modeling using sub point of 2D Member

In new version it is possible to apply load to sub-point and edit member's shape by selecting sub-point.



Input Point Load at sub Point of 2D Member



Change Shape by Grip of sub Point of 2D Member

4. Enhanced of Design Modification

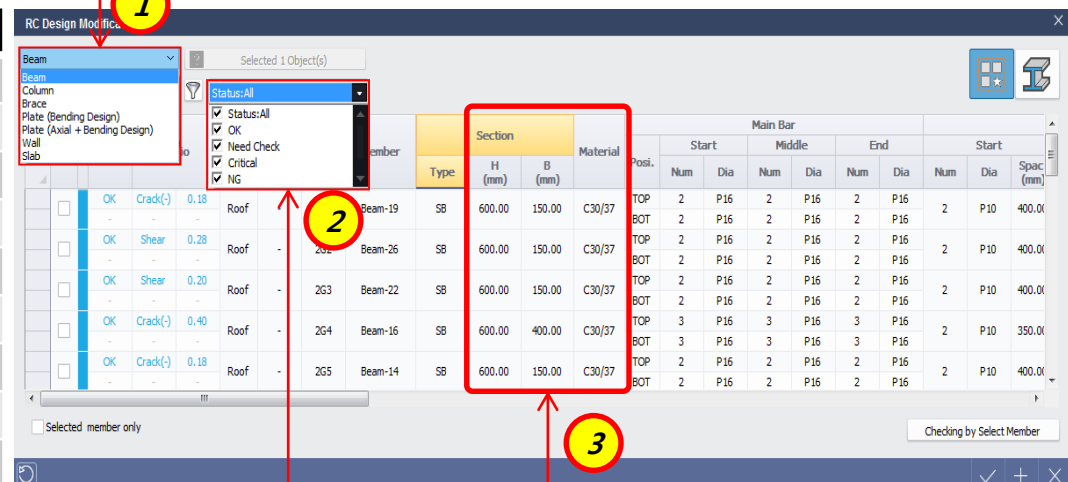
Enhanced Design Modification for all Members

- Results > Design Results Category > Design Modification

Enhanced Design Modification

- ① Member types available for Design Modification

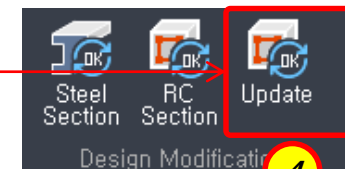
Member Types		2017 V2.1	2018 V1.1
RC	Beam	O	O
	Column	O	O
	Brace	-	O
	Plate	-	O
	Wall	-	O
	Slab	-	O
Steel	Beam	O	O
	Column	O	O
	Brace	-	O



- ② Arrange members according to design status

- ③ Possibility to edit member's section and material

- ④ Auto-update of the model and proceed analysis according to modified section and material



5. Other Enhancement List

Category	Category	Description
1. UI/UX	Multi Tower UI	<ul style="list-style-type: none"> Change the way of 'Auto-Generate Story Data'
2. Modeling	-	<ul style="list-style-type: none"> -
3. Loading	Imperfection Sway Load	<ul style="list-style-type: none"> Coefficient Calculation by AISC and KSSC Apply Imperfection Load for non Building Type (General Building)
4. Results	Story Mass/weight table	<ul style="list-style-type: none"> Add Story Mass table and weight table
5. Loading	Loading Report	<ul style="list-style-type: none"> Complement the Report Contents
6. Design	Design Setting	<ul style="list-style-type: none"> Add Tab for Steel and RC Design
	Load Combination Settings(UI improvement)	<ul style="list-style-type: none"> 1. User scenario analysis 2. Integration in one setting window (psi factor / seismic setting / 100:30 / SRSS ...)
	Design Code	<ul style="list-style-type: none"> Add ACI 318-08M1 and output a detail report for ACI 318-08M
	Auto Grouping	<ul style="list-style-type: none"> Apply Prefix Group Name to be applied Story Set Data