



StressCheck COM API 4.1 Updates (v11.1 Release)

New Functions

The following new functions were introduced with COM API 4.1:

Automeshes.**AddAutoMeshSimThinSection**

- int[] srcList
- int[] destList
- bool mesh_thinsection_pentahedron (default true)
- int layers (default 1)
- double mesh_thinsection_distance (default 0.0)

DataTable.**GetColumn**

- ExtractionColumn col
- (optional) int num
- (optional) int run

Model.**ImportTLAP**

- string filename
- int first_point

PointLoads.**GetCaseScaleParameter**

- string case_id

PointLoads.**SetCaseScaleParameter**

- string case_id
- string scaleParameter

Surface.**Dependents**

- bool recursive (default false)

Surface.**DependsOn**

- bool recursive (default false)

Updated Functions

The following functions were updated with COM API 4.1:



Automeshes.**AddAutoMeshSimBoundaryLayer**

new argument: bool mixed_mesh (default false)
new argument: bool grade_toward_ends (default false)

Automeshes.**AddAutoMeshSimCrackFront**

new argument: bool dh_manual (default false)
new argument: bool inner_radius_manual (default false)
new argument: bool outer_radius_manual (default false)
new argument: string dh_str
new argument: string inner_radius_str
new argument: string outer_radius_str
new argument: bool mixed_mesh (default false)
new argument: bool integrationLayer (default false)
new argument: bool grade_toward_ends (default false)
removed: inner_thickness_manual
removed: inner_thickness

Automeshes.**AddMeshSimBoundaryLayer** (still deprecated)

new argument: bool mixed_mesh (default false)
new argument: bool grade_toward_ends (default false)

Model.**Fractures**, Model.**Nodes**, Model.**Points**, and Model.**Systems**

AddAutoProject renamed to AddAutoProjection
AddProject renamed to AddProjection

New Objects

The following new objects were introduced with COM API 4.1:

Model.**Surfaces**

Surface(num)

Surface

long Number
string Name
StatusType Status
BoundaryType Type

Updated Objects

The following objects were updated with COM API 4.1:



Body

new: long ResultNumber

GlobalLocalPointLoad

all float properties now double

new: string ScaleParameter

GLPOINTLOADDEF

new: string ScaleParameter

Model

new: string ModelSummaryXML

PointLoad

Thickness changed from float to double

new: string ScaleParameter

Solution

new: int LinContactIterations

new: double LinContactPressureTolerance

new: int LinContactRayTolerance

New Enums

The following new enums were introduced with COM API 4.1:

ExtractionColumn

ecN

ecDOF

ecAux

ecFunction

ecAverage

ecLimit

ecAngle

ecLocalX

ecLocalY

ecLocalZ

ecLocalR

ecLocalT

ecLocalP

ecGlobalX

ecGlobalY

ecGlobalZ



ExtractionColumn (continued)

ecGlobalR
ecGlobalT
ecGlobalP

Updated Enums

The following enums were updated with COM API 4.1:

Automesher

removed: amtMeshSimExtrudeAdv
removed: amtMeshSimGlobalAdv
new: amtMeshSimThinSection

AutomeshProperty

removed: apMinAngle