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## New Features in the AutoCAD Civil 3D API

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### .NET Changes

This section covers changes to the AutoCAD Civil 3D .NET API for the 2018 release.

#### Prospector Folder Management

Two classes have been added for folder management in Prospector.

Class Name	API Name	Description
FolderUtil	GetNonAlignmentRootFolder()	Gets the root folder ObjectId for a non-alignment object type. Supported object types are surface, pipe network, pressure network, corridor, view frame group, and intersection.
	GetAlignmentRootFolder()	Gets the root folder ObjectId for the specified alignment type
FolderNode	GetFolder()	Gets the child folder ObjectId by name or path
	CreateFolder()	Creates a child folder with the input folder name and returns the created child folder ObjectId
	GetPath()	Gets a string containing the path relative to the root folder
	GetParent()	Gets the parent folder ObjectId
	GetSubFolders()	Gets the ObjectIdCollection of subfolders
	RenameFolder()	Renames the folder
DeleteFolder()	Deletes the folder	

AddEntity()

Adds the entity specified by entityId to the folder

## Updates to Existing Classes

The following updates have also been made:

Class Name	API Name	Description
Entity	FingerPrint	Gets or sets the FingerPrint of the entity
	ComputeFingerPrint()	Computes the FingerPrint of the entity
SettingsCmdAssemblyInsertion	CorridorAlongCurveOption	Gets the corridor along alignment curve option
	MODAlongCurves	Gets the corridor station placement frequency by mid-ordinate of the alignment curvature
	CorridorAlongOffsetTargetCurvesOption	Gets the corridor along offset alignment curve option
	FrequencyAlongOffsetTargetCurves	Gets the corridor station placement frequency along offset target curves
AdditionalAppliedAssemblyInfo	MODAlongOffsetTargetCurves	Gets the corridor station placement frequency along offset target curves
	CorridorAlongCurvesOption	Gets or sets the value to specify the assembly insertion option along the alignment curve
	MODAlongCurves	Gets or sets the value to specify the alignment curve mid-ordinate value for assembly insertion
	TargetCurveOption	Gets or sets the value to specify the assembly insertion option along the offset target curve
	MODAlongTargetCurves	Gets or sets the value to specify the offset target curve mid-ordinate value for assembly insertion

	FrequencyAlongTargetCurves	Gets or sets the value to specify the assembly insertion frequency along the curve portion of the offset target
BaselineCollection	default[System::Guid] AddGUIDBaseline()	Gets a baseline by GUID Adds a baseline with the given baseline name, alignment, profile, and GUID
GridSurface	SampleElevations()	Gets the sample points of a grid surface along the line specified by inputting two points
TinSurface	SampleElevations()	Gets the sample points of a TIN surface along the line specified by inputting two points

## COM Changes

If you are using the COM API, you need to update the object version to 12.0 (from 11.0 used in AutoCAD Civil 3D 2017). The objects and interfaces exposed have remained the same, but you should reference the new libraries, which are installed by default to: C:\Program Files\Common Files\Autodesk Shared\Civil Engineering 120.

**Parent topic:** [About the Developer's Guide](#)



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