

Autodesk® River & Flood Analysis Module

Thank you for downloading the Autodesk® River and Flood Analysis Module

The **Autodesk® River & Flood Analysis Module** is a sophisticated river modeling software package that supported HEC-RAS within the Autodesk® AutoCAD® Civil 3D® environment. The River & Flood Analysis module makes it easier than ever before to compute water surface profiles for modeling rivers, bridges, culverts, spillways, levees, floodplain and floodway delineations, stream diversions, channel improvements, and split flows.

This readme contains the latest information regarding the installation and use of this module. It is strongly recommended that you read this entire document before you apply this module to your product. For reference, you should save this document to your hard drive or print a copy.

Key Features of this Module

- Automate HEC-RAS cross section cutting, water surface analysis, flood plain mapping, and all related modeling tasks.
- Utilize numerous automation mapping tools for extracting cross sections from various digital terrain sources including contours, TINs, DTMs, DEMs, LiDAR data, survey files, surveyed cross sections, etc.
- Perform sophisticated bridge and culvert analysis as well as automating the process of designing and analyzing roadway crossings.
- Automate mapping of bank station locations, channel and overland flow lengths, levee locations, ineffective flow areas, Manning's roughness data from topographic map data.
- Perform automated bridge scour computations for FHWA and state DOT roadway studies.
- Automatically generate floodplain and floodway maps, ready for FEMA and other agency submittals.

General Installation Information

As you prepare to install this extension, keep the following in mind:

Language Version	This extension can be installed on any language version of AutoCAD Civil 3D 2016 on all supported operating systems. Be sure to install the correct extension for your software.
AutoCAD Entities	This extension creates base AutoCAD entities. There is no change to the AutoCAD Civil 3D drawing format and these objects can be used in other applications.
Apply Service Packs	Autodesk strongly encourages all AutoCAD Civil 3D users to download and apply service packs. This extension officially supports AutoCAD Civil 3D 2016 any future services packs that Autodesk may release.
Back Up Custom Files	It is recommended that you back up all custom CUI, MNR, and MNL files before you apply this extension.
Administrative Privileges	During installation, you will be prompted for the original installation media or a network image. In order to apply this extension, you must have administrative privileges to install and uninstall products.
Reboot	After you install, it is recommended to reboot your system even if not prompted.
Uninstall	This extension can be uninstalled by selecting the applicable extension in Control Panel. All files and command access options including menus will be removed.

Installation

Download the **C3D_2016_RIVER_FLOOD_ANALYSIS_MODULE_ENGLISH_64.EXE** to your desktop. Once downloaded, launch the River & Flood Analysis Module installer by running the **C3D_2016_RIVER_FLOOD_ANALYSIS_MODULE_ENGLISH_64.EXE** from your

desktop. Follow the instructions on screen to complete the installation. Once installed, users can access the River & Flood Analysis Module commands via the AutoCAD Civil 3D Ribbon *River*.

Network Deployment

You can add the River & Flood Analysis Module to a Network deployment.

1. Create a base deployment of Autodesk® AutoCAD® Civil 3D® 2016. This should be an out-of-the-box deployment with as little customization as possible other than license information.
2. Create a folder under the **<Deployment location>\<Deployment name>\Img\x64\Components\<ProductivityToolName>**
3. Copy the Civil 3D Productivity Tool to **<Deployment location>\<Deployment name>\Img\x64\Components \<ProductivityToolName**
4. On the workstation where you initially created the Civil 3D deployment, open the Tools folder and double-click the Create and Modify a Deployment shortcut icon.
5. On the Create Deployment > Configure page under Modification Options, select Create a New Deployment Using an Existing Deployment as a Template.
6. Specify a new name for the deployment, review and make any other changes, then click Next.
7. On the Create Deployment > License Agreement page, review the agreement and click Next.
8. On the Create Deployment > Product Information page, review the license information and click Next.
9. On the Create Deployment > Configure <Deployment Name> page, click on Include additional software in the product list to open the Additional software options.
10. Under Additional software click the Add button and browse to the Productivity Tool executable located in the **<Deployment location>\<Deployment name>\Img\x64\Components\<ProductivityToolName>** folder.
11. Under “Command Line Parameters”, enter /Q to ensure the install doesn’t halt your silent deployment.
12. Review and make any other changes, click “Click to close and return to the product list, then click Create. **Now any new deployments of Autodesk AutoCAD Civil 3D 2016 will have the productivity pack applied to them automatically.