

Autodesk Infrastructure Design Suite 2016

[Autodesk Infrastructure Design Suite 2016](#) is a comprehensive [Building Information Modeling](#) (BIM) for Infrastructure software solution that combines intelligent, model-based tools to help users gain more accurate, accessible, and actionable insight throughout the project execution and lifecycle of transportation, land, and water projects. With unique access to the Autodesk portfolio—both on the desktop and in the cloud—users can benefit from a comprehensive industry-specific toolset that enables enhanced workflows not possible with individual products alone, and more economical and convenient access.

Infrastructure Design Suite 2016 features connected workflows between preliminary engineering and the detailed design phases, better collaboration with extended data exchange capabilities, enhanced project organization tools, and improved software coordination with consistent user interfaces. Three editions of Autodesk Infrastructure Design Suite 2016 are available to support BIM workflow needs for infrastructure projects. Each offers an economical and convenient package that can help users do more, achieve better results faster, and collaborate more effectively. A variety of [Desktop Subscription](#) licensing options are available for each edition.

Autodesk Infrastructure Design Suite Standard 2016 – Infrastructure software that offers foundational planning, design, and coordination capabilities. The Standard edition includes: [Autodesk AutoCAD 2016](#), [Autodesk AutoCAD Map 3D 2016](#), [Autodesk AutoCAD Raster Design 2016](#), [Autodesk Storm and Sanitary Analysis 2016](#), [Autodesk Navisworks Simulate 2016](#), and [Autodesk ReCap 2016](#). Autodesk cloud services, available to users who purchase [Autodesk Desktop or Maintenance Subscription](#), deliver collaboration capabilities and software access anywhere, anytime, and provide the computing power for fast rendering of photorealistic images.

Autodesk Infrastructure Design Suite Premium 2016 – A comprehensive solution providing model-based civil, structural and utility design, analysis, and visualization capabilities. The Premium edition includes all of the products and cloud capabilities in the Standard edition and adds: [Autodesk AutoCAD Civil 3D 2016](#), [Autodesk AutoCAD Utility Design 2016](#), [Autodesk 3ds Max 2016](#), and [Autodesk Revit Structure 2016 software](#). The Autodesk Bridge Module, Autodesk Geotechnical Module, Autodesk Rail Layout Module and additional Autodesk cloud services, including A360, Rendering, [Structural Analysis for Autodesk Revit](#), [Autodesk Green Building Studio](#), [Energy Analysis for Autodesk Revit](#), and [InfraWorks 360 LT](#), are available to users who purchase Autodesk Desktop or Maintenance Subscription. These cloud services deliver collaboration capabilities and software access anywhere, anytime, and provide the computing power for fast rendering of photorealistic images.

Autodesk Infrastructure Design Suite Ultimate 2016 – An advanced solution with specialized tools for architectural design, MEP engineering, and structural engineering. The Ultimate edition includes all of the products and cloud capabilities of the Premium edition and adds: [Autodesk Revit 2016](#), [Autodesk Robot Structural Analysis Pro 2016](#), and [Autodesk Navisworks Manage 2016](#) (instead of Autodesk Navisworks Simulate 2016). The Autodesk River and Flood Analysis Module is also available with Desktop or Maintenance Subscription.

Easy-to-read comparison charts are available online, showing both [software products](#) and [cloud services](#) included in each Suite edition.

Enhancements to Software in the Suite

- **Autodesk AutoCAD Civil 3D 2016** – Civil engineering design and documentation software that supports Building Information Modeling (BIM) workflows. With a focus on optimizing transportation design workflows, Civil 3D 2016 now offers the ability to create surfaces from point cloud data and AutoCAD solids from Civil 3D objects, as well as subassembly loop support and targeting corridor alignments by layer. The improved user experience with Navisworks and BIM 360 software coordination, point cloud and production drafting enhancements, and connected workflows between Civil 3D and InfraWorks 360 drive greater design efficiency. Additionally, project teams can help improve collaboration and coordination with extended data exchange capabilities for DGN and IFC files, as well as enhanced project organization tools for Autodesk Vault Professional 2016 software.
- **Autodesk InfraWorks 360 LT 2016**– Offers foundational sketching and modeling capabilities for creating 3D models of the existing environment and generating data-rich design concepts. InfraWorks 360 LT software is available as a Subscription entitlement with Infrastructure Design Suite 2016 Premium and Ultimate editions and enables users to generate data-rich design concepts that support faster decision making and stakeholder buy-in, thereby accelerating the project approval process. 3D model building is enhanced with the capability to bring together different types of data from a variety of native formats and coordinate systems, then add details such as roads, bridges, and buildings, and enhance with photorealistic rendering tools.
- **Autodesk AutoCAD 2016** – One of the world’s leading CAD applications. New to the 2016 release is the BIM Coordination Model, which helps users avoid clashes in their designs by enabling use of Navisworks models as underlays in AutoCAD. Enhancements to PDF performance and usability improve communication with stakeholders.
- **Autodesk AutoCAD Map 3D 2016** – Model-based infrastructure planning and management software, providing broad access to CAD and GIS data. In addition to AutoCAD platform enhancements, new and improved Map 3D functionality includes the ability to more easily manage very large, job-enabled databases; increased flexibility in working with different coordinate systems; enhanced capabilities to filter point cloud data; extended support for MySQL 5.6, SQL Server 2012 Standard, SQL Server 2014, and Oracle 11.2.0.4; and additional support functionality to edit network models stored in ArcSDE 10.2.
- **Autodesk AutoCAD Raster Design 2016** – Raster Design is a raster editing and raster-to-vector conversion tool that helps users better utilize scanned paper drawings, maps, satellite images, aerial photos, and similar data.
- **Autodesk AutoCAD Utility Design 2016** – Model-based electrical and gas distribution design software that helps improve design accuracy, analyze and optimize network designs for greater performance and reliability, and deliver more consistent and coordinated documentation. Major enhancements for the 2016 release include connectivity functionality for gas distribution designs; connected workflows and surface model sharing with Civil 3D; extended configurability of rules for styles, validation, analysis and material ordering; and improved clearance checking for design layout, overhead conductor, and facility clearance checking.
- **Autodesk Navisworks Simulate and Manage 2016** – Comprehensive project review software that provides 5D analysis and communication capabilities that assist users in demonstrating design intent and simulating construction. Enhancements include support for attaching Navisworks models in AutoCAD and overall interoperability features which allow users to review and collaborate with the entire project team with third party software support. Enhanced quantification features include support for 2D PDF sheets, allowing for integrated model and sheet-based

- takeoff with the most common industry formats. Deeper integration between Navisworks and BIM 360 Glue delivers a 'cloud-connected experience', supporting shared Navisworks data and workflows with BIM 360 projects.
- **Autodesk Revit Structure 2016** - A Building Information Modeling-based tool for 3D modeling of structural components. Enhancements for 2016 include new structural section properties, structural loads improvements, gravity analysis (desktop or maintenance subscription required), A360 Collaboration for Revit (separate cloud subscription service), and more rebar options when modeling and documenting concrete reinforcement.
 - **Autodesk Revit 2016** – Built for Building Information Modeling (BIM), Autodesk Revit software combines features for architectural design, MEP and structural engineering, and construction, in a single, comprehensive application. The 2016 release continues to support user productivity with improved Revit software performance and usability enhancements. New features include MEP fabrication detailing within Revit, improved structural reinforcement detailing, and improved workflows specific to connection design and detailing.
 - **Autodesk 3ds Max 2016** – A powerful tool to help architects, engineers and contractors create more convincing visualizations. With a tighter integration between Revit and 3ds Max in the 2016 release, users can directly import and file link Revit models up to ten times more quickly and with cleaner geometry. Additional enhanced features include improved instancing, additional BIM data, and multiple cameras.
 - **Autodesk ReCap 2016 Portfolio** – Continues to bring Reality Computing to a new level of accessibility and affordability with enhancements including support for new native laser scan formats; smart measurement tools to help measure diameters and distances with automatic shape fitting; and ability to add tags, notes, pictures and hyperlinks to ReCap files and have them automatically sync between a desktop and the cloud.
 - **Autodesk Robot Structural Analysis Pro 2016** – Advanced structural analysis tools to investigate linear and nonlinear behavior in large, complex structures. The 2016 release includes better wind load simulation, improved structural loads, enhanced model verification, user interface changes, composite beam design, and improvements to steel and concrete design.

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