



Netcad GIS – EXCANET



Excanet is a dynamic and interactive NETCAD product that reveals your Excavation/Fill plans and volume calculations with all the details. You can use it in all your works requiring excavation plans such as complex designs and non-progress payment excavations that are different from each other such as mining, tallow, excavation/filling, building, site, warehouse, dam, regulator, bridge piers, tunnel portal entrance excavations, hospital, treatment plant.

Save time while enjoying the freedom these tools provide you. Deliver the most accurate results. Increase your efficiency and competitiveness. Easily perform volume comparisons.

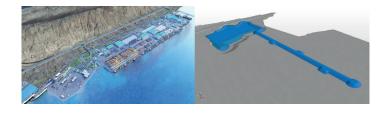
Prerequisites

NETCAD GIS is mandatory for all NETCAD modules.

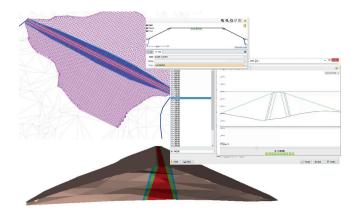
KEY FEATURES

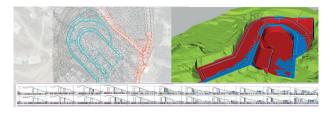
- In excavation elevations, slopes or geometry changes; excavation plan, surfaces, volume calculations, reports and cross-section drawings can be updated automatically. Which changes will be made can be defined by users.
- Elevation definitions of excavation areas can be made with many different methods such as slope, 2 & 3 plane, all broken points. All elevations can be canceled.
- In case there are different model layers in the elevation definitions, the desired layer can be used.
- Desired excavation areas can be provided to follow the
- All excavation areas of the project can be listed with the definition editor.
- The slope definitions given to the excavation areas can be listed in the editor. It can work interactively with the screen.
- Excavation areas without slope and platform definitions can be listed.
- Scarp slopes can be changed by selecting multiple excavation areas
- Excavation area names can be written on the CAD screen with multiple selection,
- Excavation surfaces can be created from line, polyline or area data
- Separate excavation/fill definitions for left/right side can be made on the surfaces of excavations with line or polyline geometries.
- Users can define excavation/fill separately for left/right side of excavation areas with area geometry.
- Scarp slopes can be defined to selected excavation areas at once with multiple selection, Platform widths can be determined.
- The result slope and platform definitions can be monitored simultaneously while making the definitions.
- Many display settings can be made in the viewing window.
- ✓ The definitions of the selected excavation geometries can be simultaneously processed into lines, polylines and areas to be excavated.

- Excavation sub-surfaces can be created, their volumes can be calculated separately.
 - Platform definitions made can be stored as templates and used in all projects.
- ✓ Fill or excavation slope scarp values can be selected from the available template. New definitions can be added to the template library structure to be used in all projects.
- More accurate surfaces can be created by defining the rotation sensitivity of the surface to be formed at the turning points (fractures) of the excavation geometry.
- Corners can be formed as user-defined in perpendicular or round.
- ✓ If desired, separate scarp slopes can be defined for each of the lines forming the excavation areas.
- Excavation geometries can be extended to each other.
- While the scarp slopes defined in the excavations are being produced, it can be extended to a desired line and then connected to the terrain with the same scarp slope.
- Slope and platform definitions made can be deleted.
- ✓ Cross-section drawings can be taken. Fill/excavation area hatches in the drawings that are taken can be added automatically. Area hatch types can be defined with the hatch type that is selected as raster or vector.
- ✓ In the cross-section drawings, the layers belonging to the old cross-section printouts can be deleted automatically.
- ✓ Cubage results can be drawn on the screen.
- ✓ Cross-section drawings can be taken over the requested files by using template CAD drawings with many parameters such as scale, elevation, code, distance, box, kilometer, cubage, area calculation.
- New template CAD files can be created with the desired features to be used in cross-section drawings. Can be used in any project.







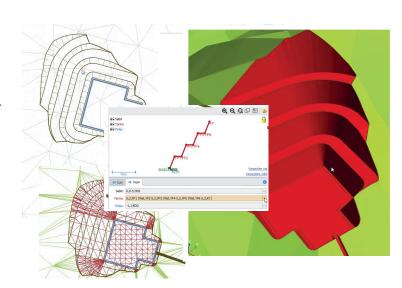


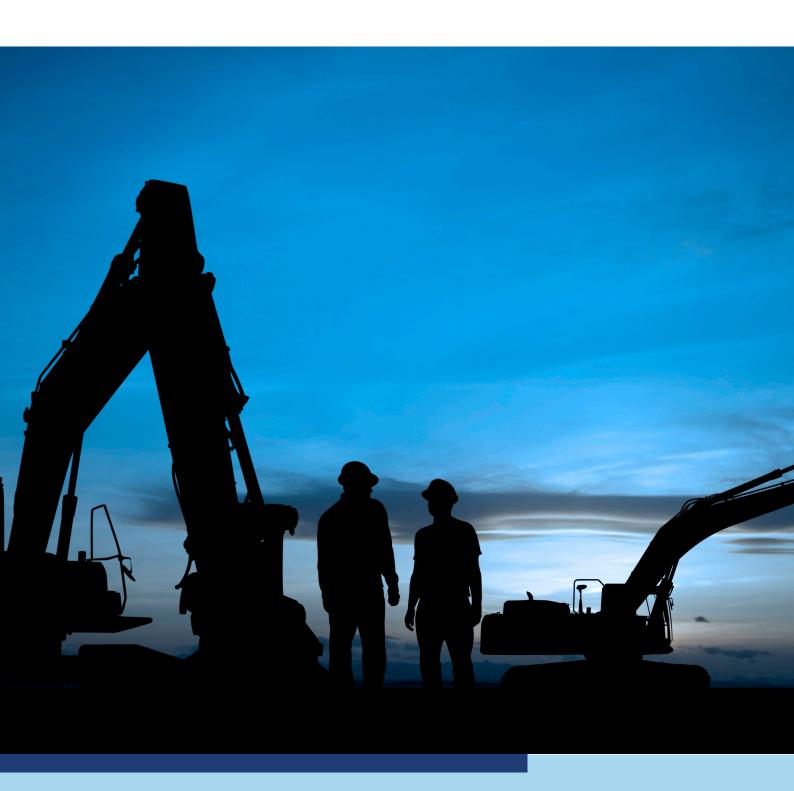


- Cross-section drawings can be edited. Tables can be designed where all desired values such as filling area, excavatiion area, volumes, distances can be added and the template structure can be determined to be added to the cross-section drawings.
- The surfaces to be formed regarding the elevation, scarp slope and platform definitions can be produced and/or excavation plan drawings can be taken.
- Cross-sections to be drawn can be monitored instantly from the viewing window.
- Prismatic solid model or cross-section based volume calculations can be performed.
- In the process of calculating the volume from cross sections, desired interval and length of cross-section can be obtained from special points in the CAD environment.
- Cross-section starting kilometer value can be defined.
- Model files can be selected from layers on which cross-section is desired to be taken.
- Volume files can be created and stored automatically during the process. These files can be used in cross section drawings.
- ✓ Volume results can be taken in excel format. Kilometer, filling area, excavation area, filling volume, excavation volume and bruckner value can be listed.
- ✓ With the preview option during the process, the cross-sections to be created can be followed in advance.
- Dimensional drawings to be formed can be formed by triangular edges or with a fixed value to be given.
- ✓ Excavations outside the excavation area and extra excavations according to the previously specified surfaces can be calculated and added to the report.
- Volume calculation results can be obtained according to specific elevation.
- ✓ Volume calculation results from both prismatic volume and cross-sections can be observed on the 3D screen.
- In between which lines scarp hatches will be produced on the formed surfaces can be determine automatically.

KEY BENEFITS

- Automatic project revisions in dynamic structure
- Different methods for automatic excavation elevation definitions
- Easy to use operation steps
- Ability to manage all excavation areas collectively
- ✓ Volume comparison options
- Different scarp definitions for each segment in excavation areas
- ✓ Volume calculations with different methods
- Possibility to create excavation plans in any type of geometry
- **⊗** Excavation/Filling plan application outputs





Ankara Headquarter

Bilkent Cyber Plaza, B Blok No:409 Cyberpark, 06800 Ankara/TÜRKİYE T: +90312 265 0510

İstanbul Region Office

Nidakule Göztepe, Merdivenköy Mah. Bora Sok. No:1 Kat:134732, İstanbul/TÜRKİYE T: +90216 417 6210



global@netcad.com www.netcad.com