2020 Virtual Workshops Session #3-4: Carlson Point Cloud

A Virtual Workshop Using Carlson Point Cloud – Learn to Process Point Clouds into Surfaces

This bonus session from the 2020 Virtual Workshops focuses on Carlson Point Cloud software, demonstrating how to import, clean and process point cloud data to create usable terrain models. Steve Cummings and David Kraus walk through workflows, performance considerations and practical tips for handling large LIDAR datasets in Carlson Civil.

Key Topics:

- Importing and visualizing point clouds in Carlson Point Cloud
- Differences between Basic and Advanced versions
- Creating bare earth models and TIN surfaces
- Managing large datasets and optimizing performance
- Workflow for civil site studies using LIDAR and aerial data

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.
This session was presented by Steve Cummings and David Kraus on 12/17/2020.

2020 Virtual Workshops Session #3-3: Drawing Cleanup for Model Building and Construction Staking

A Virtual Workshop Using Carlson Software – Learn to Clean Drawings for Machine Control Models

This Carlson Software virtual workshop features Walt Liles demonstrating best practices for CAD drawing cleanup and model building using Carlson Software. The session covers file-size reduction, polyline management, layer organization and exporting coordinate data for field layout.

Key Topics:

- Carlson Software “Drawing Cleanup” tool and settings
- File-size optimization and layer management
- Converting entities to polylines and handling Civil 3D data
- Creating and exporting points (CRD files, TXT exports)
- Preparing 2D/3D linework for GPS and curb-machine models

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Walt Liles on 12/17/2020.

2020 Virtual Workshops Session #3-2: Customizing, Migrating and Sharing Settings in Carlson Software

A Virtual Workshop Using Carlson Software – Learn to Standardize CAD Settings Across Workstations

This Carlson Software virtual workshop, led by Doug Aaberg and hosted by Jennifer DiBona, focused on managing and standardizing CAD and Carlson settings across multiple platforms. The session demonstrated how to use Carlson's Setting Server to synchronize templates, plot styles, fonts and configuration files company-wide.

Key Topics:

- Cross-platform CAD configuration (AutoCAD / IntelliCAD / Carlson OEM)
- Centralized management of plot styles, fonts and templates
- Using Carlson Setting Server for company-wide consistency
- Creating and sharing CFG, FLD and DWT files
- Handling 2D vs 3D polylines and field-to-finish automation

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This session was presented by Doug Aaberg on 12/17/2020.

2020 Virtual Workshop Session #2-7: Autodesk Licensing Changes – Plan for the Future – How it Will Affect Carlson Users

A Virtual Workshop Using Carlson Software – Explore Autodesk Licensing Changes for Carlson Users

This virtual workshop session, led by Dwayne Tindall of CAD Masters and hosted by Jennifer DiBona, explains the Autodesk licensing changes and what they mean for Carlson users who run AutoCAD underneath Carlson. The session covers CAD workstation specs for Carlson, the end of Autodesk maintenance plans and box copies, the move-to-subscription and trade-in offers and when to choose IntelliCAD, AutoCAD OEM or full AutoCAD.

Key Topics:

- Autodesk move to subscription and named user licensing
- End of maintenance plans, perpetual licenses and box copies

- Trade-in offers for retired and multi-user network licenses
- Running Carlson on IntelliCAD, AutoCAD OEM or full AutoCAD
- CAD workstation and video card specs for Carlson

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This session was presented by Dwayne Tindall on 12/16/2020.

2020 Virtual Workshops Session #2-6: Overview of Carlson's Point Cloud Manipulation Programs

A Virtual Workshop Using Carlson Software – Explore Point Cloud, Drone and Laser Scan Tools

This Carlson Software virtual workshop session provided an in-depth overview of the company's point cloud and 3D modeling tools, including Photo Capture, Precision 3D, Point Cloud Basic and Advanced and related hardware such as the Scan 2K and Fixed One. Presenters demonstrated workflows for processing drone, lidar and laser scan data, and discussed integration with Carlson's CAD and mining software.

Key Topics:

- Carlson Photo Capture (drone imagery processing)
- Precision 3D and Point Cloud modules
- Hardware: Scan 2K, Fixed One and Gyro systems
- Carlson Ops and Blast Ops software integration
- System requirements and pricing overview

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This session was presented by Steve Cummings, Tyler Faulkner and Brad Husak on 12/16/2020.

2020 Virtual Workshops Session #2-5: Carlson SurvCE & SurvPC Software VIP Round Table

A Virtual Workshop Using Carlson SurvCE and SurvPC – Ask the Experts About Field Software

This Carlson Software virtual workshop brought together field-software experts to answer user questions about Carlson SurvCE and SurvPC. Topics included troubleshooting, version 6 updates, Carlson Cloud file sharing, surface staking and

GPS/robotic workflows.

Key Topics:

- SurvCE/SurvPC v6 features and bug reports
- Carlson Cloud setup and account management
- DWG/DXF handling, map overlays and layer control
- NGS monument queries and coordinate conversions
- Surface staking, mission planning and field-to-finish codi ng

Descriptions, transcripts and other details of this recording ha ve been AI-generated and may contain errors.

This session was hosted by Jennifer DiBona with panelists Butch Herter, John Gerber and Sarah Winter on 12/16/2020.

2020 Virtual Workshops Session #2-4: P3D Topo, Hydro & Dynamic CAD Software VIP Round Table

A Virtual Workshop Using Carlson Software – Explore Precision 3D Hydrology and Dynamic CAD

This virtual workshop session, led by Bruce Carlson, provides an

in-depth demonstration of Carlson Precision 3D Hydrology (P3D Hydro) and its integration with Carlson CAD modules. The training covers intelligent TIN modeling, storm sewer and culvert design, hydrology analysis and dynamic CAD synchronization for civil engineering workflows.

Key Topics:

- Intelligent TIN surfaces and runoff coefficient mapping
- Integration between Carlson Hydrology and Precision 3D Hydro
- Storm sewer and culvert design automation
- Dynamic CAD linkage and real-time updates
- Channel and liner analysis, parking lot design automation

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This session was presented by Bruce Carlson on 12/16/2020.

2020 Virtual Workshops Session #2-2: Carlson Desktop Software VIP Round Table

A Virtual Workshop Using Carlson Software – Ask the Experts About

Carlson Desktop Software

This Carlson Software virtual workshop featured a live “Ask the Experts” roundtable focused on desktop software, including Carlson Survey, Civil, Construction and IntelliCAD. Developers and support leaders discussed common technical issues, new features and user wishlist items for upcoming releases.

Key Topics:

- IntelliCAD 10 graphics settings and troubleshooting
- Carlson Cloud communication and wishlist enhancements
- Road design and divided highway modeling
- Common tech support issues and fixes
- Dynamic labeling, MText improvements and GIS integration

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This session was hosted by Jennifer DiBona with panelists Dave Carlson, Leonid Entov, Lon Watson and Scott Griffin on 12/16/2020.

2020 Virtual Workshop Session #1-7: Survey Project from Start to Finish with

Field to Finish & Surfaces

A Virtual Workshop Using Carlson Software – Explore a Survey Project from Boundary to Surface

This Carlson Software virtual workshop, led by Jennifer DiBona, walks participants through a complete survey project workflow using Carlson Survey—from importing field data and creating coordinate files to deed entry, field-to-finish processing, surface modeling and final sheet setup. The session emphasizes practical command usage, data organization and troubleshooting techniques for real-world survey drafting.

Key Topics:

- Importing and managing point data (CRD/CRDB files)
- Deed entry, correlation and processing
- Field-to-Finish setup and drawing automation
- Surface modeling and triangulation
- Annotation, labeling and sheet preparation
- Integration with Carlson GIS and Google Earth imagery

Descriptions, transcripts and other details of this recording ha ve been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 12/15/2020.

2020 Virtual Workshop Session #1-6: Case Study Q&A – Project Overview Using Carlson in Civil & Hydrology Design

A Virtual Workshop Using Carlson Software – Explore RoadNet Design Revisions and Earthwork

This virtual workshop session features Carlson Software's Mark Long demonstrating real-world civil engineering workflows using Carlson Civil Suite. The presentation covers subdivision design, grading, stormwater management and road network modeling with practical tips and live demonstrations.

Key Topics:

- Carlson Civil Suite workflow for civil engineering projects
- Subdivision and roadway design techniques
- Dirt quantity calculations and balancing
- Super elevation and North Carolina DOT standards
- RoadNet, templates and intersection management

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This session was presented by Mark Long on 12/15/2020.