

# 2020 Virtual Workshops Session 3-4 Steve Cummings showing Carlson Point Cloud in our Virtual Booth, Recorded 12/17/2020

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 Jennifer DiBona on 12/17/2020.

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# **2020 Virtual Workshops Session 3-3 Drawing Cleanup for Model Building and Construction Staking, Recorded 12/17/2020.**

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

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

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# **2020 Virtual Workshops Session**

# 3-2 Customizing Migrating and Sharing Settings in Carlson Software

## Recorded 12/17/2020

This Carlson Software virtual workshop, led by Doug Oberg 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.

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# 2020 Virtual Workshop 2-7 Autodesk Licensing Changes: Plan for the Future/How it Will Affect Carlson Users Recorded 12/16/20

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 Dwayne Tindall on 12/16/2020.

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# 2020 Virtual Workshops Session 2-6 Overview of Carlson's Point Cloud Manipulation Programs Recorded 12/16/2020

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 Jennifer DiBona on 12/16/2020.

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# **2020 Virtual Workshops Session 2-5 Carlson SurvCE & SurvPC Software VIP Round Table Recorded 12/16/2020.**

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 coding

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This session was presented by Jennifer DiBona on 12/16/2020.

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## **Creating and Maintaining CAD**

# Standards with Tool Palettes Recorded 11/18/2021

This webinar, presented by Travis Maxwell and hosted by That CAD Girl, explores how to create and maintain CAD standards using tool palettes in Carlson and IntelliCAD. It covers practical workflows, automation techniques, and scripting methods to improve consistency and productivity in CAD environments.

## Key Topics:

- CAD standards management using tool palettes
- Automating workflows with scripts and LISP
- Setting up reusable notes, layers, and blocks
- Troubleshooting and sharing palettes across teams
- Integrating Google Earth and LIDAR data in Carlson Civil

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

*This session was presented by Travis Maxwell on 11/18/2021.*

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## 2020 Virtual Workshops Session 2-4 P3D Topo Hydro&Dynamic CAD

# Software VIP Round Table Recorded 12/16/2020.

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
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This session was presented by Jennifer DiBona on 12/16/2020.

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## 2020 Virtual Workshops Session 2-2 Carlson Desktop Software

# **VIP Round Table**

## **Recorded 12/16/2020**

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 presented by Jennifer DiBona on 12/16/2020.

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

# **& Surfaces**

## **Recorded 12/15/2020**

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

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