



Advanced Data Collection with DCT

The DCT application is advanced data-collection software that allows Osmose field personnel to capture and verify field data quickly and accurately. Used together with the proven data processing and reporting capabilities of Osmose project delivery software, DCT provides:

- ✓ Flexible, powerful data collection and verification capabilities
- ✓ Use of *always-connected* technologies to provide real-time data transmits to the cloud
- ✓ Support for digital photos and GPS positioning, including sub-meter accuracy
- ✓ Integrated, in-the-field display of customer source data
- ✓ Fast, reliable performance in collecting, verifying, and manipulating data
- ✓ Easy configurability for a wide range of mobile data-capture tasks



DCT also allows Field Technicians/Engineers to view the data they are collecting or verifying on a map, and to perform all actions required during the data collection process, including addition and deletion of attachment objects and capturing and editing of all required attributes.

DCT is typically used in conjunction with Osmose's extensive data-development capabilities, including automated data validation, data correction, invoicing, and reporting. The resulting high-quality data is delivered to customers through a database, spreadsheets, or custom file deliverables.

The screenshot shows the 'LoadCalc' application interface. It has a light blue background. On the left, there is a 'Summary' section with a list of items: 'Summary: NESC 12 (250B) Grade C, Medium (1:0.25in...)', 'Construction: Junction Pole (4 Span Targets)', 'Spans: 2 P, 2 S', 'Equipment: 1 X', and 'Service Drops:'. Each item has a blue plus icon to its right. Below this list is a small diagram of a pole with a red square at the top. On the right, there is a 'Pole Settings' section with various input fields: 'Pole Length: 40', 'Pole Class: 4', 'Species: SP', 'Circumference: 36.9 In.', 'Load Case: NESC 12 (250B) Grade C, Medium (I)', 'Pole Setting: Hgt Above Ground: 34', and 'Pole Depth: 6'. There is a 'Reset To Default' button below these fields. At the bottom right, it says 'Pole Load: 24%' and 'Guying: N/A'. There is also a circular gauge in the bottom center showing a red needle pointing to a value.



Data Collection

DCT provides an efficient means of collecting and updating GIS data and reduces the time and expense of performing data collection and data maintenance tasks. In addition, DCT is configurable for any type of project or data model. All types of GIS information can be viewed or captured in DCT, including pole information, joint use information, GPS locations, digital photos, barcode scanning, etc. Source data from GIS, CIS, field entry or any other information system can be incorporated into a project using DCT. Data collected in DCT is mapped into the customer's personal Geodatabase, shapefiles, or other database, preserving the original data model and formatting. DCT contains built-in QC and sampling tools to further assist in the collection of accurate data.

Data Validation & Enhancement

DCT performs extensive accuracy checks and data validations by running a battery of automated, rule-based processes that check for valid and/or required associations and attribute values for specified network data. Additional validations can be custom built to suit the needs of the specific project.

These validations and processes ensure that the processed data is accurate, comprehensive, and high quality. For the benefit of project implementation, these automated processes are fully configurable, so they're designed for accuracy and speed not only during processing but also during set-up.

Data Migration & Integration

Osmose maintains a pole management database for each customer through the **Production Portal** application. Data from multiple sources is integrated to provide a unified display of all key data when viewed with the Production Portal Database. Once the source data is uploaded into Portal, the Osmose Data Delivery team will upload the data to DCT for updating/validation in the field. DCT provides a configurable means of gathering key network and customer data, enhancing and integrating the data, and delivering it back to Portal.

Osmose Production Portal

- Accepts source data from diverse customer sources
- Configurable data model
- Automated data attribute population
- Pre-configured export paths
- Post-field-collection validations
- Automated detection and resolution of data inconsistencies
- Daily processing of data

Data Delivery

Osmose delivers high-quality, validated, integrated data to the target system in the format required by that system. Standard formats include Excel, CSV, Access, ESRI Geodatabase, Shapefiles, XML*. Custom formats include web service integration and other proprietary formats. *some XML deliverables may require customization

Contact your local Osmose representative or:

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