

# **RoadEng<sup>®</sup>**

## **PRODUCT SPECIFICATION GUIDE**

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# PRODUCT FUNCTIONALITY (SURVEY/MAP & TERRAIN MODULE)

		TerrainTools <sup>®</sup>	RoadEng <sup>®</sup>	RoadEng <sup>®</sup> with Sofree Optimal	SUPPORT Exclusive
SURVEY / MAP	Traverse / P-Line Note Entry and Map Creation* (through the Survey Map Module)	✓	✓	✓	
	Traverse Adjustment*	✓	✓	✓	
TERRAIN MODULE	LiDAR Import & Thinning Control	✓	✓	✓	
	Read and Write standard raw survey formats (incl. Total Station, .Shp, GPS et al)	✓	✓	✓	
	Survey data feature coding for feature connectivity, display and annotation				
	Survey Data Reduction				
	Coordinate Geometry	✓	✓	✓	
	Mapping & Basic CAD Functions – including annotation	✓	✓	✓	
	Generate Digital Terrain Models (DTMs)	✓	✓	✓	
	Generation & control of contours (surface contour generation)				
	3D Visualization: Display of Features & TIN Surfaces				
	Creation and edit breaklines.				
	Profile Drafting and Design	✓	✓	✓	
	Grading & Site Design	✓	✓	✓	
	Cut & Fill Volume Calculations & Reporting (non-linear)	✓	✓	✓	
	Live Maps – Geo-referenced Web Imagery & DEM	✓	✓	✓	
	Support for multi-layered terrain surfaces (via background terrains)	✓	✓	✓	
	Drive-Through Mode	✓	✓	✓	
	Terrain Multi-Plot	✓	✓	✓	
	Cable Logging Deflection Analysis*	✓	✓	✓	
	Hydrology Tools – Watersheds, Streams/Ponds, Catchment Area, Flow Paths	✓	✓	✓	
Path Explorer AI	✗	✗	✓	✓	

\*Functionality available in the Forest Engineering Version only

# PRODUCT FUNCTIONALITY (LOCATION MODULE)

		<b>TerrainTools</b>	<b>RoadEng</b>	<b>RoadEng</b> with <b>Softree Optimal</b>	<b>SUPPORT</b> Exclusive
LOCATION MODULE	LandXML Surface import direct	x	✓	✓	
	Horizontal alignment design with dynamic feedback	x	✓	✓	
	Polyline to Alignment (with curves)	x	✓	✓	✓
	Vertical alignment design with profile views & dynamic feedback				
	Curve Design	x	✓	✓	
	Interactive Cross Section Template Editing & Assignment	x	✓	✓	
	Material Tracking: Mass Haul & Opti-Haul Outputs	x	✓	✓	
	Sub Surface Display & Volume Calculations	x	✓	✓	
	Smart Pits	x	✓	✓	
	Culverts	x	✓	✓	
	User-defined stationing				
	Design Time Costing	x	✓	✓	
	Earthwork Optimization – Vertical Alignment	x	x	✓	
	Earthwork Optimization – Horizontal Alignment	x	x	✓	
	Smart Curves – Vertical Alignment Curve Reduction & Smoothing	x	x	✓	✓
	Alignment Tools	x	✓	✓	
	Location Multi-Plot Report Builder	x	✓	✓	

# FILE FORMAT COMPATIBILITY



# LICENSE TYPES

## How Our Licensing Works:

- ✓ Licenses are assigned to **individual office locations**.
- ✓ Licenses can be **shared between users within** an approved location.
- ✓ We offer both subscription and perpetual license options.
- ✓ **Three Security Types** available: USB, Cloud, Network
- ✓ Enterprise site licensing options can be available.
- ✓ The software includes several support-**exclusive features** (described below). Subscription licensing or maintenance on perpetual licenses are required to access these features.



### CLOUD-BASED

- Digital Product Code
- Internet needed only at time of activation.



### NETWORK

- Locally Hosted network license manager
- Requires a server with internet access.
- Licenses can be "checked" out to be used offline



### USB

- Offline Method
- Requires USB port
- Not available for subscription licensing

# SYSTEM & SECURITY OVERVIEW

<b>Product Installation Type</b>	Softree products are sold exclusively as desktop applications, not SaaS.
<b>Licensing Methods</b>	There are 3 licensing methods available: <ol style="list-style-type: none"><li>1. Cloud (= digital product code)</li><li>2. USB key; and</li><li>3. Network license manager.</li></ol>
<b>Data Transmission &amp; Encryption</b>	<p>Network and Cloud licensing is encrypted available and it is a unique computer identifier for licensing, IP address and date/time stamp. USB Key licensing has no transmitted data associated with licensing.</p> <p>Within the software's operation, it has web-based access to support resources: template library, multiplot layouts. These are available for download access only.</p> <p>Users can be prompted if a new version is available and have to select to download and update it. This can be disabled in module setup.</p>
<b>Data Storage</b>	<p>The software does not store or transmit any data or media, with the exception of the licensing identifiers:</p> <ul style="list-style-type: none"><li>• Unique hash of computer ID</li><li>• IP Address</li><li>• License code</li><li>• Date / time stamp</li><li>• Company name attached to the license code</li></ul> <p>We do not house tenant data or sensitive data in our licensing system.</p>

If you have any questions on the above information, please reach out to our Development Team at [dev.team@softre.com](mailto:dev.team@softre.com).

# NETWORK LICENSES SPECIFICATIONS

## Network Prerequisites

- **Dedicated Host Machine:** A dedicated computer or server accessible to all end-user machines.
- **Continuous Connectivity:** The host machine must remain online at all times.
- **Network Communication:** The server must accept PING requests.
- **Software Requirements:** Starting with Version 11, the server must have .NET Framework 4.8 (or later) installed.

## Hosting Computer Specifications for Network Licensing

The network license (enterprise licensing) operates as a server-side executable and requires a physical computer, virtual machine, or server with the following minimum specifications:

- **Operating System:** Windows (any compatible version).
- **Framework:** .NET Framework 4.8 or later.
- **Memory:** At least 1 GB of system RAM.
- **Storage:** A minimum of 1 GB of available disk space.

# END USER COMPUTER SPECIFICATIONS

RoadEng Basic System Requirements:		
<b>Operating System</b>	Windows 7, 8, 8.1, 10 or 11	
<b>Processor</b>	Intel Core i5 10th generation, similar or better (Recommended)	
<b>Memory</b>	4 GB RAM	16 GB RAM or more (Recommended)
<b>Display resolution</b>	800 x 600 resolution	
<b>Disk Space</b>	1 GB	
<b>.NET Framework</b>	.Net 4.8	