

# Leica Virtual Explorer - Enterprise **Product Description**



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## Overview

Leica Virtual Explorer (LVE) Enterprise empowers users to simultaneously stream a powerful, three dimensional, digital reality to an unlimited number of users worldwide. Built on state of the art network server software technology, Leica Virtual Explorer Enterprise is designed to quickly and efficiently stream mass quantities of 3D geospatial data to large audiences over the Internet, for the purpose of independently and concurrently performing geographical exploration and analysis. With Leica Virtual Explorer Enterprise, users may:

- Efficiently stream 3D terrain environments (created by Leica Virtual Explorer Architect) over private networks or the Internet
- Optimize data for high performance and scalable web streaming
- Utilize a full set of analysis, modeling, animation, annotation and collaboration tools
- Employ unlimited connections and collaborations of 3D scenes with vast numbers of concurrent users worldwide
- Share views, scene markups, chat and custom GIS layers
- Apply data encryption
- Stream data to thousands of users worldwide via the Internet or DVD

Also included in Leica Virtual Explorer Enterprise is a tool that provides advanced-level administration for managing server settings, 3D scenes and user accounts.

## Key Features

### ■ Unlimited Collaboration

- Allows unlimited number of users worldwide to collaboratively explore, analyze and edit 3D scenes in a public or private collaboration session
- Makes presentation of spatial information to remote users easier and more accessible
- Users may:
  - o view and “attach to” the camera positions of others
  - o chat with fellow session participants
  - o collectively analyze and markup a 3D scene
  - o share custom GIS layers within a secure virtual meeting place

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## ■ Serving 3D Scenes

- Powerful and efficient streaming of 3D scenes over private networks or the Internet
- Supports simultaneous and unlimited connections
- Efficient handling of mass quantities of geospatial data only limited by disk media
- Enables Leica Virtual Explorer Architect to optimize data for scalable web streaming
- Web server scenario allows for high performance and scalability:
  - o load-balancing on multiple servers
  - o can be run on rented web space
- Serves optimized 3D scenes published by the Leica Virtual Explorer DVD extension
- Optimized for any bandwidth connection
- Simultaneous connectivity with unlimited connections
- Supports the collaboration of user navigation, analysis and custom GIS layer propagation with unlimited collaborations
- Uses TCP/IP protocols
- Enables Secure Socket Layer (SSL) protocol
- Uses a Certificate Trust List (CTL)
- Works with firewalls
- Takes full advantage of multi-processor server hardware
- Fully controlled through the Leica Virtual Explorer Server Administration tool

## ■ Enterprise Server Administration

- Monitor each server's access to determine the identity and number of users in each scene
- Add, remove and manage any number of Leica Virtual Explorer Enterprise servers:
  - o Limit the number of simultaneous user connections
  - o Control the security level of each server by limiting anonymous users
  - o Configure the server port
  - o Set Log File and Upload Directories
- Add, remove and manage Leica Virtual Explorer scenes:
  - o Set up each scene's owner
  - o Customize the access level by making a scene public or private
  - o Limit the number of users that can simultaneously access each scene
  - o Configure user account access to each scene
  - o Enable or disable restricted access to each scene

- Add, remove and manage each server's user accounts:
  - o Create accounts by assigning user names and passwords
  - o Customize server administration privileges for each user account
  - o Customize collaboration session hosting privileges for each user account

## Enterprise Server vs. Web Server Scenarios

### ■ Enterprise Server

- Two-way interaction
- No pre-processing of data
- GIS queries
- Collaboration
- Animation
- Not scalable
- Runs on Win2003 server only

### ■ Web Server

- One-way distribution (streaming over Internet)
- Data must be optimized for streaming
- No GIS queries
- No collaboration
- No animation
- Load-balancing on multiple servers
- Runs on rented web space

**Leica Geosystems Geospatial Imaging** offers a broad range of geospatial information technology, delivering the most comprehensive solutions in image exploitation, processing, visualization and data management. Organizations use this information for decision-making processes throughout the enterprise via web-based, mobile and desktop clients.

With Open Geospatial Consortium (OGC) and International Organization for Standardization (ISO) interoperability, Leica Geosystems develops solutions with the most advanced service-oriented platform available. These solutions empower users, making systems more flexible and accessible, therefore driving ROI for the enterprise.

The expert in geospatial imaging, Leica Geosystems facilitates the efficient capture of data, referencing of imagery, measurement and analysis of 3D referenced information. Providing robust image compression techniques, Leica Geosystems offers the most efficient delivery of imagery over the Internet or inside an organization.

With a rich history, Leica Geosystems continues to lead the industry, meeting customers' needs in today's enterprise environment. Those who use Leica Geosystems products every day trust them for their precision, seamless integration, interoperability and superior customer support. Geospatial solutions from Leica Geosystems - when it has to be right.

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