



# IMAGINE Enterprise Loader™ PRODUCT DESCRIPTION

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## Product Description

IMAGINE Enterprise Loader™ allows users to load vector and raster data into a database system such as Oracle Spatial, enabling the largest number of end users visibility and access to data. Images can be loaded as individual GeoRasters, or the IMAGINE Enterprise Loader can be used in conjunction with other capabilities offered by ERDAS IMAGINE® to automatically combine multiple images into a single GeoRaster. This is available as an add-on module to ERDAS IMAGINE or LPS. Once data is loaded into the database all ERDAS IMAGINE and LPS users can access, view and analyze the information.

## Key Features

- Utilities for bulk and batch loading of raster and feature data to Oracle Spatial
- Populate open GeoRaster structure and metadata
- Extend GeoRaster structure with proprietary information
  - Geometric models such as RPCs
  - NITF metadata for advanced exploitation
  - Thumbnails to aid in geospatial selection
- Accepts imagery in any format ERDAS IMAGINE can read
- Map input data and metadata to database attribute fields
- Oracle Table Tool helps administrators design tables to hold GeoRasters
- Load ESRI shapefiles into Oracle Spatial Geometry features

### Imagery Capabilities:

- Load multiple input images at once
- All ERDAS IMAGINE supported image formats can be loaded to Oracle Spatial

### Database Connection

- Provides list of previously accessed connections to choose from, or define new
- Define Server, Port, Instance and Username/Password
- Test connection
- Identify the specific GeoRaster table and column to populate

### Database Parameters

- Pyramid type and levels
- Tile size
- Image statistics
- Footprint
  - Image extent (minimum bounding rectangle)
  - True (non-background) image extend polygon
- Thumbnails
- Spatial index
- Map image header fields to database fields, including use of standardized mapping schemas

### Batch

- Batch processing is a capability, including time scheduling to execute the load process.

### Vector Capabilities

- Database connection options
- Load ESRI shapefiles into Oracle Spatial Geometry features
- Define/confirm Oracle Coordinate system
- Display Oracle Spatial reference ID (SRID) for selected file

- Specify Table name to receive vector features
- Specify Geometry column
- Optionally append to existing tables
- Spatial index
- Batch processing

#### Table Manager

The Oracle Spatial Table Manager is a utility that helps you add, remove, and edit the different rows and columns associated with an Oracle Spatial Table.

- Database Connections Manager
- Spatial Tables View
  - Shows all spatial tables in the current database instance
  - View table contents
  - Add new table
  - Remove existing table
- Data View
  - Displays the contents of a selected spatial table
  - Delete rows
  - Add rows (initiates the GUI for loading spatial files to Oracle)
- Schema View
  - Add, remove and edit the columns in the selected table
  - Define (or modify) column properties
    - Alphanumeric character strings (including size)
    - Number (including precision and scale)
    - Date
    - SDO Geometry
    - SDO GeoRaster
- Constraints: Add, remove and edit constraints on the values that are contained in the selected columns. Constraints are limits on or requirements for defining valid values for each column.
  - List all constraints defined for a specified table
  - Add new constraint types to identified column
    - Primary Key
    - Foreign Key
    - Check specified condition when adding a new row
    - Unique value enforcement
  - Define Conditions

#### Requirements:

Use of the IMAGINE Enterprise Loader requires Oracle Database 10g Enterprise Release 2 or later with the Spatial option along with permissions to be able to load data into database tables. Please refer to your Oracle documentation for Oracle's system requirements.

#### About ERDAS

ERDAS – The Earth to Business Company – helps organizations harness the information of the changing earth for greater advantage.

ERDAS creates geospatial business systems that transform our earth's data into business information, enabling individuals, businesses and public agencies to quickly access, manage, process and share that information from anywhere.

Using secure geospatial information, ERDAS solutions improve employee, customer and partner visibility to information, enabling them to respond faster and collaborate better. It also means better decision-making, increased productivity and new revenue streams.



ERDAS is a part of the Hexagon Group, Sweden. For more information about ERDAS or its products and services, please call +1 770 776 3400, toll free +1 866 534 2286, or visit [www.erdas.com](http://www.erdas.com).