The GOCAD Mining Suite ioGAS Link Module was developed in collaboration with ioGlobal to combine the power of exploratory and geochemical data analysis with advanced visualization and 3D-GIS query. The real-time connection between ioGAS and GOCAD Mining Suite provides users with an advanced interpretation environment.

GOCAD Mining Suite ioGAS Link is an extension of Paradigm™ GOCAD, the world’s most sophisticated geological modelling platform, adapted specifically for the mining industry with mining modules available exclusively from Mira Geoscience.

A single link that allows exploratory and geochemical data analysis to be part of a unified multi-disciplinary and geospatial interpretation process

» Interacts with geochemical data stored in ioGAS through an enhanced 3D visualization environment and spatial query engine
» Displays 3D-GIS queries performed in GOCAD Mining Suite on a wide range of data plots in ioGAS
» Reflects geochemical queries performed in ioGAS within GOCAD Mining Suite in real-time
» Renders geochemical data in GOCAD Mining Suite colour, shape and size attributes
» Integrates geochemical data with other multi-disciplinary datasets within GOCAD Mining Suite
### Key Features

#### Real-time connection
- GOCAD import filter for ioGAS files
- Real-time connection using TCP/IP protocol
- Upon connection an ioGAS live link object is created in GOCAD
- The protocol allows for transferring of:
  - ioGAS graphical attributes
  - New ioGAS attributes
  - ioGAS legend items
  - New GOCAD properties
  - New GOCAD regions
- Creation of a new ioGAS dataset directly from a GOCAD pointset object
- Choice of saving the ioGAS live link object as a standard GOCAD pointset object

#### Automated functionalities
- Creation of an ioGAS live link object within GOCAD when connecting to open ioGAS session
- New attributes in ioGAS (e.g. calculations, diagrams, etc.) are directly mapped in GOCAD as new properties on the live link object
- Real-time updating of ioGAS Attribute Manager’s settings within GOCAD’s 3D viewer
- Real-time updating of the ioGAS Legend within the GOCAD environment

#### User triggered functionalities
- Broadcast GOCAD’s property as new ioGAS attribute
- Broadcast GOCAD’s region as new ioGAS graphical attribute (e.g. colour, shape or size)
- Create GOCAD region from ioGAS Legend item selection(s)
- Open GOCAD Link data as new ioGAS live dataset

#### Visualization
- New GOCAD 3D pointset symbology derived from the ioGAS Attribute Manager
- Real time co-rendering of ioGAS attributes (colour-shape-size) within GOCAD’s 3D viewer
- "Connected to ioGAS" text indicator in GOCAD 3D viewer
- New synchronized ioGAS Legend within the GOCAD environment

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The ioGAS Link Module does not include the ioGAS application developed by ioAnalytics. For information on ioGAS features, licence and compatibility with GOCAD Mining Suite please visit: [www.iogas.net](http://www.iogas.net) or contact: iogas@ioglobal.net.