# G/Gas


G/Gas, a suite of geofacilities management applications based on industry best practices, represents a key enabling technology within Intergraph's geospatial resource management (GRM) environment of integrated systems. These systems cooperate seamlessly to manage the planning, design, construction, operation, and maintenance functions of a gas utility. G/Gas represents a suite of functional modules, and interface software that integrates with corporate applications and other systems in the GRM architecture.

## G/DESIGNER

Designer provides robust functionality for geofacilities management: GIS viewing and access techniques, and placement and edit functions based on Intergraph's G/Technology™ software.

Designer maintains the geofacilities data model through the day-to-day change management operations of the distribution system. With Designer's built-in flexibility, the user can undock a laptop and run disconnected from the corporate database while creating and editing data in the field. Back in the office, the changes can be merged into the long-term transaction data model.

The following are primary benefits you will realize with G/Designer:

- Parameter-driven and configurable. G/Gas architecture is designed with the expectation that each company will configure it to meet specific needs. Configuration is accomplished through metadata definitions, not custom code.
- No proprietary development language or tools. Designer is easily modified with standard SQL tools.
- Undock and go. Take the geofacilities model from the office into the field via laptop computer. To ensure data integrity, Designer uses Oracle®'s data validation techniques and keeps users informed of conflicts. Validation results go into an edit-query report and are presented to the user. When design work is returned from the field, a conflict-detection command allows the user to review inconsistencies.
- Capabilities to expedite field design. Rules may be relaxed so that field designers can place parts of a design before all the specifics are known. For example, the user has the flexibility to tap into a main without identifying the connecting nodes; however, this relationship must be established in Designer before posting occurs to ensure the integrity of the gas geofacilities network.
- Trace commands delivered out-of-the-box. G/Gas includes Trace All, Trace between Two Points, and Valve Isolation Trace. Trace results are displayed in the map view and may be used to perform operations such as attribute updates or simple network analysis. Designer can also be configured to perform additional traces.
- Plots may be predefined or ad hoc. Plotting employs what-you-see-is-what-you-get (WYSIWYG) technology; and borders and related graphics may be added, as well as redlines and user notes. Key plotting capabilities include: OLE support, redlining, and intelligent fields. A complementary tool, G/NetPlot Server, enables batch plotting from a browser-based GUI.
- Query results may be presented in various ways to meet user needs, such as in map views, data tables, or reports.

## G/ANALYST

Analyst is a view-only product that provides tracing, spatial query, plotting, and analysis capabilities.

## G/ADMINISTRATOR

Intended for the G/Gas application administrator and technical support personnel, Administrator includes the functionality of Designer and Analyst. It also includes commands for an administrator to manage a G/Gas implementation, including the high-speed Dynamic

Display Cache (DDC) for rapid display on client machines. Key capabilities of Administrator include the following:

- Schema management, including capabilities to maintain the metadata configuration
- Display management of legends, styles, labels, and display priorities
- Support of secondary data formats, such as CAD files, from MicroStation or AutoCAD, GeoMedia® Access Format, MapInfo, and ESRI's shape files and coverages
- Configuration and schedule for broadcasting the current DDC
- Configuration of standard reports, such as compliace reports, into database metadata

## G/NETVIEWER

NetViewer makes the G/Gas application available to all relevant users in the organization and provides the ability to deploy multi-tiered applications via the facility database. Using Internet Explorer, NetViewer extracts and interacts with live G/Gas data so that users can view, navigate, query, trace, and redline the geofacilities database. It combines standard Web access to the database with "smart graphics" and a variety of tools to enable the development of robust Web applications.

## G/MOBILEVIEWER

MobileViewer supports operations and maintenance activities with G/Technology in the field. It provides viewing, navigation, query, tracing, and redline capabilities. MobileViewer uses a local snapshot of the database and does not require Oracle.

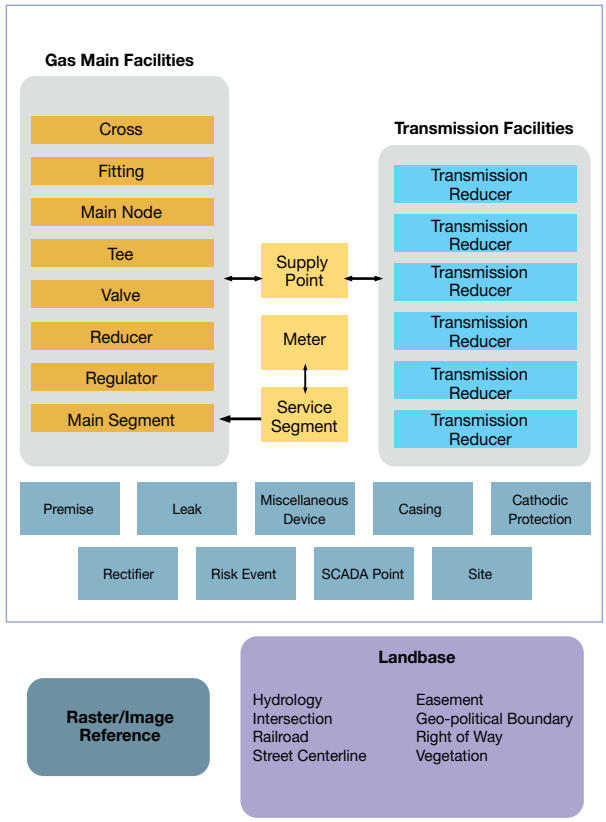
## G/NETEXPORT

NetExport provides a way to export the G/Gas data into other formats such as MapInfo, MicroStation, AutoCAD, and ArcInfo. The interface product relies on the third-party application, FME Objects, from Safe Software.

## GAS INDUSTRYWARE

Industryware is Intergraph's term for our industry-specific data model for gas utilities. It augments the commercial-off-the-shelf (COTS), industry-specific functionality and provides a starting point that results in rapid solution implementation. To gas companies with standard needs, it provides a cost-effective, out-of-the-box application. To companies with the goal of full integration, it provides a basic foundation.

Industryware is the starting point for our QuickStart program, which provides the project and implementation services to install and deploy G/Gas quickly and efficiently. The gas Industryware software module is managed by Intergraph Customer Services. The data model for Gas Industryware is shown below.




## ABOUT INTERGRAPH

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, businesses and governments in more than 60 countries rely on the company's spatial technology and services to make better and faster operational decisions. Intergraph's customers organize vast amounts of complex data into understandable visual representations, creating intelligent maps, managing assets, building and operating better plants and ships, and protecting critical infrastructure and millions of people around the world.

For more information, visit www.intergraph.com.