



Grid Solutions
a GE and Alstom joint venture

OIL AND GAS SOLUTIONS

e-terrapipeline

Solutions for Liquid and Gas Pipeline Management

e-terrapipeline is a finely integrated suite of applications for planning, monitoring, and controlling liquid and gas pipelines.

See why major pipeline companies are making the switch

Secure, accurate, and easy-to-navigate, *e-terrapipeline* is a finely integrated suite of applications for planning, monitoring, and controlling liquid and gas pipelines. The applications work together seamlessly to simplify use and streamline operations, while dynamic displays help pipeline operators visualize conditions more clearly for optimum safety and efficiency. All data from either third-party applications or from the corporate information systems are seamlessly integrated with *e-terrapipeline*, thus providing the operator a consistent look and feel.



e-terrapipeline: A Foundation for the Future

e-terrapipeline was developed on the GE's *e-terrahabitat* real-time control system platform. GE is a leading supplier of SCADA systems and applications worldwide, and has been delivering world class SCADA solutions based on the *e-terrahabitat* platform for over 30 years. The platform evolved over the years to leverage current hardware and operating systems, software programming innovations, languages, and tools. GE ensures an upgrade path throughout the product lifecycle, and is designing today's *e-terrahabitat* based solutions for a continued migration path into the future. Our emphasis on evolving systems over time protects your investment in database configuration and testing, display development, and staff training, ensuring a low cost-of-ownership.





The Flexibility to Meet Your Needs

The **e-terrapipeline** advanced pipeline management and control systems application servers are designed to run on either Windows or Linux operating systems. The system architecture is compatible with standard off-the-shelf computer and network equipment to align with your IT architecture policies and organizational expertise. Standard Application Programming Interfaces (APIs) are also provided, so you can upgrade your system with new **e-terrapipeline** releases while retaining your investment in any custom applications. Common industry interface and SCADA protocols are provided to support enterprise integration and SCADA communications requirements.



The Right Tool for Your Pipeline Operators

e-terrapipeline's user interface and pipeline SCADA management applications are designed so that your users can operate the pipeline system in a safe, confident, and intuitive manner. The powerful and flexible User Interface, based on GE's **e-terrabrowser** product, allows you to design and implement displays, alarms, and operator interactions consistent with your operating practices, and compliant with Operator Interface industry standards. The pipeline SCADA management applications are designed with the flexibility to be configured for your communications requirements, conversion and display of field data, setting limits, acknowledging alarms, and performing other operating procedures in the same manner that you do today, supporting the implementation of best practice operating procedures as your business requirements necessitate.



A Secure Solution for Mission-Critical Operations

GE is the industry leader in designing, delivering, and maintaining highly secure mission critical real-time SCADA control systems. Our security program is a holistic approach to address cyber security at every level of our business, including application design and programming, system architecture design and hardening design, system integration and delivery, and on-going independent security vulnerability testing, security patch testing, and security notification and escalation services.



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