System Configuration

Flexibly available from the client server type to the web type



System Requirements

Client Requirements Specification

No.	Items	Specification
1	Operating System	Microsoft® Windows® 7 Professional 64 bit (SP1)
2	CPU Clock	Intel [®] Core 2 Duo 2.0 GHz or higher
3	Main Memory	4.0 GB or more
4	HDD Capacity	100 MB free space or more
5	Display Resolution	1280×1024 (approx. 16,700,000 colors) or more
6	Java VM	Java SE Runtime Environment 6 Update 30
7	Language	English
8	Supported Map Format	DXF, Shapefile, CSV
9	Supported Image Format	JPEG, PNG, TIFF

Server Requirements Specification

No.	Items	Specification
1	Operating System	Microsoft® Windows Server® 2008 R2 Standard
2	CPU Clock	Intel [®] Core 2 Duo 2.0 GHz or higher
3	Main Memory	4.0 GB or more
4	HDD Capacity	15.0 GB free space or more
5	Display Resolution	1024×768 (approx. 16,700,000 colors) or more
6	RDBMS	Oracle® Database 11g Release 2 (11.2) Standard Edition One
7	Java VM	Java SE Runtime Environment 6 Update 30

* Microsoft, Windows, and Windows Server are registered trademarks of Microsoft Corporation in U.S.A. and other countries. * Intel is a trademark or registered trademark of Intel Corporation and its affiliates in U.S.A. and other countries.

* Oracle and Java are registered trademarks of Oracle Corporation and its affiliates in U.S.A. and other countries.

Hitachi, Ltd.

Infrastructure Systems Company

Social Infrastructure Systems Division

TEL: +81-3-3258-1111 URL: http://www.hitachi.com/

The specifications of the product described in this brochure are subject to change for improvement. For inquiry, contact our sales representative.

© Hitachi, Ltd. 2013. All rights reserved.



Pipe Network Management System Product Guide

Supporting the operation and maintenance of pipe networks **Pipe Network Management System**



HITACHI Inspire the Next

Hitachi's GIS solution solves your problems.

A lot of trouble manage paper drawings.

Future pipe network planning is difficult.

Wish to share pipe network information.

This system will support your daily pipe network management and future pipe network plans.

Digitizing	This system digitizes pipe network data into exact drawing data to facilitate data management in expansion and update of pipe networks.
Planning	This system will support planning of pipe networks and water service areas by using various pipe network simulations.
Sharing	This system will enable sharing of pipe network information by multiple terminals and quick communications among Pipe Network Planning, Customer Service, Maintenance and other sections.

What is the Pipe Network Management System?

The Pipe Network Management System is software for managing and analyzing waterworks based on the Geographic Information System (GIS).

This system can enable water service works to be efficient by locating system-accumulated customer's information on maps. This system can also offer optimum solutions to realize safe and secure water environments by using a variety of simulation functions.



System B

System A



Aggregated

Data



Geographic Information

Facility and customer's information can be checked on maps.



Main Functions

Pipe Network Analysis

- Able to conduct simulations of pressure distribution, flow distribution and flow direction display.
- Able to manage planned pipe networks in the database.



Water Suspension Simulation

- Simulates water suspension by specifying arbitrary shutdown points - Displays water suspension regions and customer meters affected
- by the water suspension on screen.
- Displays operation valves to minimize water suspension regions.



System Utilization Examples



*1 Global Positioning System

Accessible from Web Browsers and Mobile Terminal

- Displays map data on a web browser.
- Able to eliminate software installation procedure and save management cost.
- Able to also be used on a tablet computer or a mobile terminal.



Display on a web browser



Display on a mobile terminal

* Display functions of a web browser and mobile terminal are partially different. * The screen shown are concept images

Data Acquisition from Existing Systems

- Periodically collect data from existing water billing systems and GIS systems through LAN or media to always make data latest.



*The data delivery method should be confirmed in advance with the system supplier