



NASNet® ICIS

INTEGRATED CONTROL AND INTERFACE SOFTWARE

Overview

NASNet® ICIS (Integrated Control and Interface Software) is the user interface providing control of all aspects of NASNet®.

ICIS is a modular system providing varying degrees of control and security for different levels of user. The 3 modes provided by ICIS are:

- NASNet® Dynamic Positioning user
- NASNet® Survey user
- NASNet® Advanced user

NASNet® Operating Principle

NASNet® is an advanced subsea positioning system with a concept similar to GPS. Using advanced Nautronix Acoustic Digital Spread Spectrum (ADS²) signalling technology NASNet® employs a broadcast technique to determine accurate range measurements between the calibrated NASNet® array and the passive receivers on tracked targets. The positions of the targets can then be determined with ranges from a minimum of 3 NASNet® Stations.

This approach successfully overcomes the limitations of conventional Long Baseline (LBL) systems and provides a true multi-user system able to simultaneously position unlimited objects at fast update rates and with no acoustic interference.

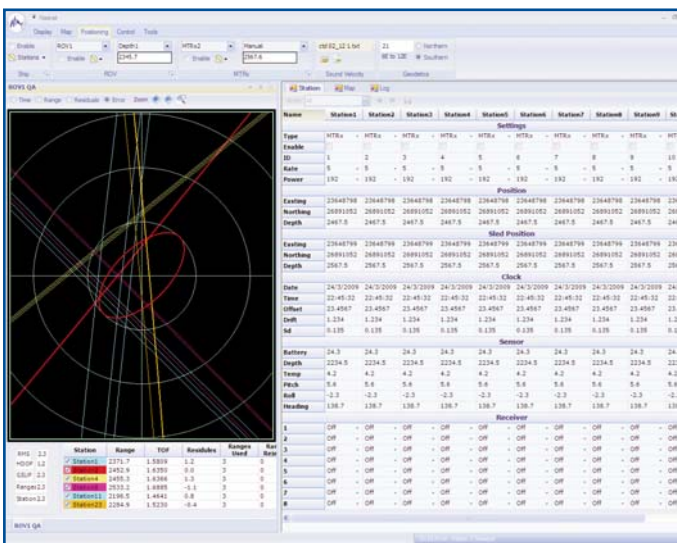
NASNet® ICIS

NASNet® ICIS provides the access and control to all NASNet® functionality. This includes:

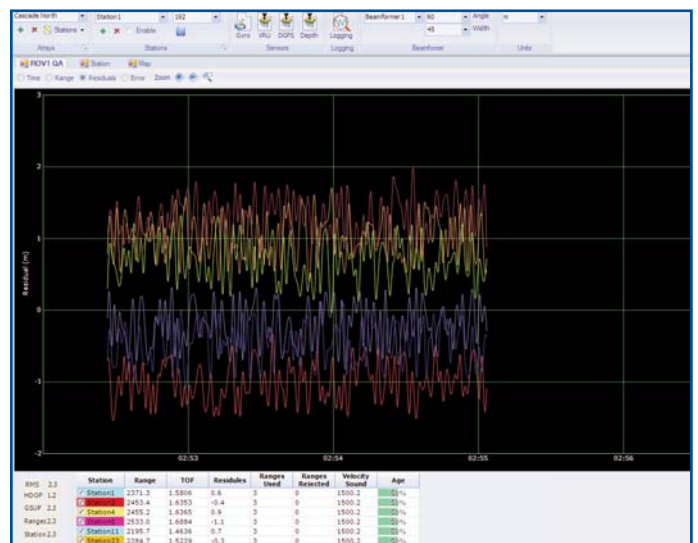
- Interfacing to and from NASNet®
- NASNet® Station calibration (box-in and baseline methods)
- Control and monitoring of all Stations and Receivers
- Control of positioning operations including Buoy Tracking System (BTS)
- Online and offline Quality Control and data export
- Replay and reprocessing functionality

ICIS provides a flexible user interface familiar to Microsoft users, making use of the ribbon toolbar and docking windows features in the latest generation of Microsoft products. This provides efficient access to all commands and monitoring functions with the minimal amount of navigating through the software. It also allows the flexibility for different users to individualise their display layouts and to save these in their own configuration settings.

ICIS is used for all interfacing of sensors into NASNet® and for controlling the interface of NASNet® into DP and navigation systems. It is also used to collect, edit and process calibration data, providing options for box-in, baseline (where acoustic visibility permits) or a combination of techniques.



Position QC and Station information display



Range residual time series display



A highly flexible Least Squares Adjustment is provided to allow the experienced user to have complete control over the position calculation used. The advanced Geometric Support (GSUP) indicator provides real-time and predictive indication of the strength of array geometry being used which is of particular benefit to less expert users.

A variety of configurable textual and graphical displays are available to assist the user in operating and monitoring the system during use. Additionally there is a comprehensive in-built contextual help for the system.

By using a master/slaves system multiple instances of ICIS can be run simultaneously from the same NASNet® DCU. This allows several users to monitor the system and to adjust or test calculation settings without affecting the performance of the master system and its external interfaces.

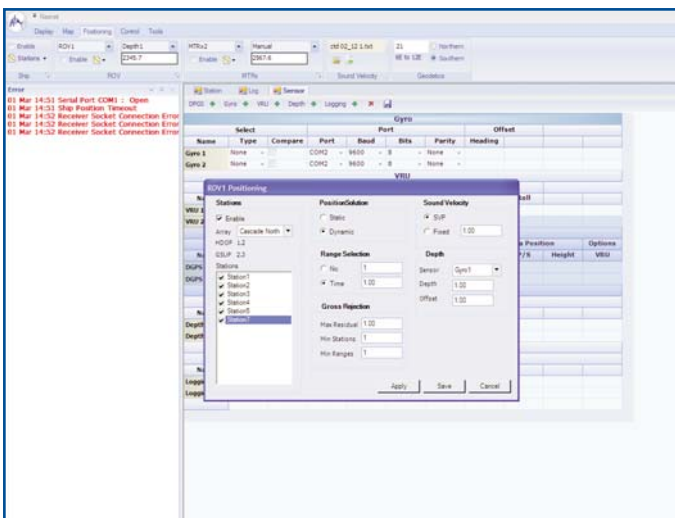
All raw data is logged which allows replay and recalculation of data using different settings, Station selections, sensor data or sound velocity information. This can provide valuable QC or allow positions to be correctly generated in the event that an incorrect setting was used online.

ICIS provides a comprehensive range of positioning QC indicators with configurable alarm settings. In addition to providing a number of industry standard data string formats, the user can build custom formats to transfer additional data to the navigation PC for monitoring and logging.

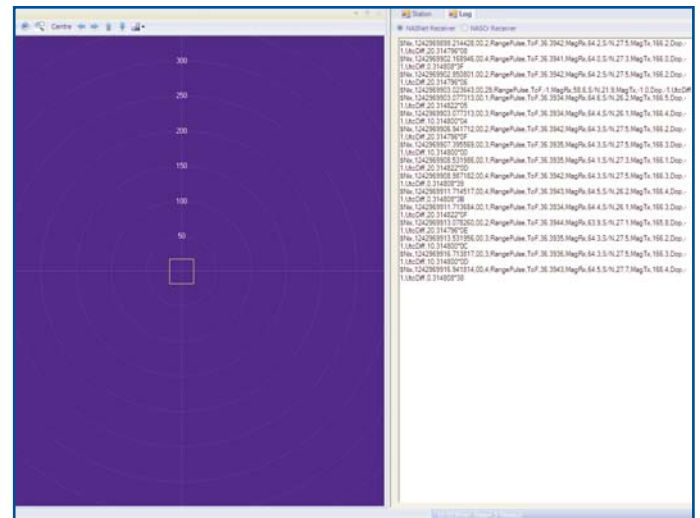
Data can also be reviewed, edited and exported from ICIS offline in configurable file formats.

Key features of NASNet® ICIS

- Flexible and advanced position solution settings
- Multi-system functionality allowing online comparisons
- Highly automated functionality, with manual options
- Modular package for various user levels
- Fully flexible interface string formats
- Offline data QC functionality
- Ability to replay and reprocess positioning
- Simple and intuitive layout
- Password protected critical settings
- Comprehensive contextual help
- Compatible with NASNet® simulator



Positioning configuration window



Map display

Global Leaders in Through Water Communication and Positioning Technology for the Offshore Industry

All information contained herein is subject to change and does not form the basis of any contractual obligations

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