

NavTerm®

NavLink® Monitor and Control Software

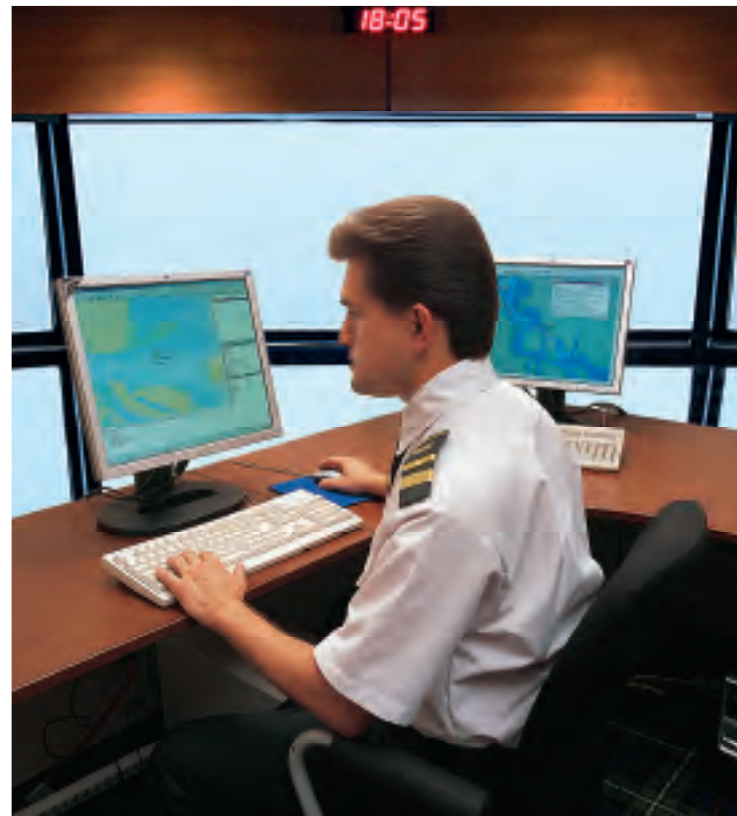


TIDELAND SIGNAL CORPORATION

NavTerm® permits the NavLink® system to provide an Authority with the means to electronically exchange data and remotely monitor and control its aids to navigation from a single location. NavTerm and its utilities allows the Authority, with minimum configuration and specified Authority parameters, to establish and display NavLink's enhanced full mesh Aids to Navigation (AtoN) network, as well as, provide detailed AtoN status reports. NavTerm also provides for robust communication path routing to maintain one seamless integrated AtoN network. A significant function of NavTerm is its ability to utilise an AIS system to exchange data.

FEATURES:

- **ELECTRONIC CHARTING** – NavTerm utilises Electronic Navigational Charts (ENC-IHO/IMO Standard S-57) or CAMP for AtoN topology. NavTerm's chart view feature uses vector images rather than raster images, so whatever the amount of zoom used when displaying, the images always stay clear and detailed.
- **SPECIFIED CONFIGURATIONS** – NavTerm provides the ability to construct electronic topology configurations. Configurations can be defined as one or more regions containing one or more outstations. The Authority can specify lists of all AtoNs within a region and establish parameters to maintain AtoN function status. These lists are for quick AtoN identification for health monitoring polling purposes.
- **DYNAMIC COMMUNICATION MANAGEMENT** – NavTerm provides NavLink separate communication mediums to be integrated into its mesh network: a primary network medium and an emergency (or failsafe) communication medium. If the primary



network medium path becomes disrupted, NavTerm will automatically re-route the Remote Telemetry Unit (RTU) data signal through any available RTU to the monitoring location. If there is a complete disruption to the primary network medium, the system will default to the standby communication medium. NavTerm will manage the complex data routing of RTU signals to the monitor and control location when these disruptions occur.

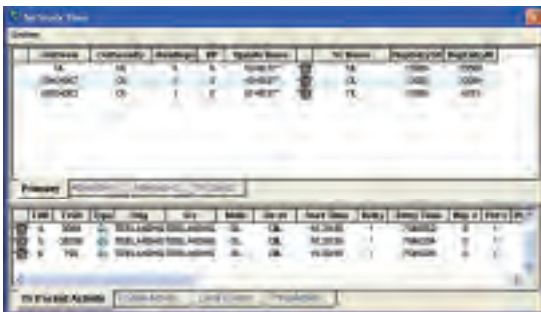
- **SUSTAINABLE NETWORK INFRASTRUCTURE** – NavTerm's full mesh topology provides for every AtoN in a region's network to be connected to each of the others, offering stability in case of changing conditions and/or disruption of the RTU(s). NavTerm is able to handle many-to-many AtoN data points and is capable of monitoring and controlling the functionality at these AtoN data points.

FEATURES (cont):

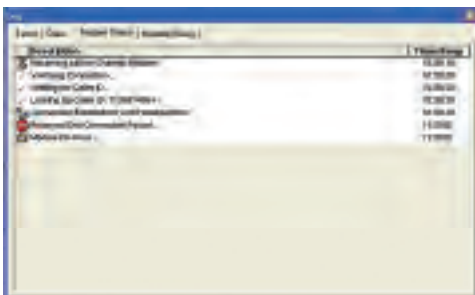
- **REPORTING** – NavLink’s management system, through a NavTerm utility, records AtoN status information, displays AtoN performance and identifies problems so that preventive measures can be implemented before an outage occurs. In addition, NavTerm produces over 25 detailed reports. These include general overview of the region(s) network from detailed log entries and exceptions reports to full historical data of an AtoN or its supporting network. The Authority can then filter these reports, generate a hard copy and/or save to CD.
- **PASSWORD PROTECTED** – Security is paramount to an Authority, so for this reason NavTerm is password protected to prevent unauthorised control commands from being transmitted to AtoN(s).



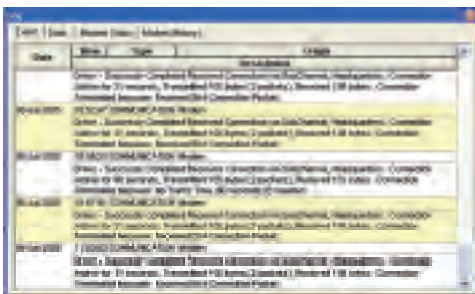
A typical Base Station screen of Informer™, an AIS AtoN providing Aid to Navigation data.



Packet Activity screen showing a view of the primary network configuration and network activity.



A Base Station Modem Status screen providing “call progress” monitoring data for a modem connection.



A Base Station Event Log screen of communications. This view shows a “lost” connection and NavTerm recovering the connection.

TIDELAND SIGNAL CORPORATION CORPORATE HEADQUARTERS

P.O. Box 52430
Houston, Texas 77052-2430, USA
4310 Directors Row
Houston, Texas 77092 USA
PH: + 1 713-681-6101
FAX: + 1 713-681-6233
E-MAIL: hq@tidelandsignal.com

P.O. Box 52370, O.C.S.
Lafayette, Louisiana 70505-2370, USA
PH: + 1 337-269-9113
FAX: + 1 337-269-9052
E-MAIL: lafayettesales@tidelandsignal.com

TIDELAND SIGNAL CANADA LTD.
#2170–21331 Gordon Way
Richmond, B.C., Canada V6W 1J9
PH: + 1 604-247-0988
FAX: + 1 604-247-0987
E-MAIL: sales@tidelandsignalcanada.com

TIDELAND SIGNAL PTE. LTD.
Crystal Time Building
16 Tannery Lane #04-00
Singapore 347778
PH: + 65 6333-0078
FAX: + 65 6333-0079
E-MAIL: sales@tidelandsignal.com.sg

TIDELAND SIGNAL LIMITED
Unit B, Kendal House
Victoria Way
Burgess Hill, Sussex, RH15 9NF, UK
PH: + 44 (0) 1444 872240
FAX: + 44 (0) 1444 872241
E-MAIL: sales@tidelandsignal.ltd.uk

TIDELAND SIGNAL LTD. (UAE)
FZS1 BB03, JAFZA South
Jebel Ali Free Zone, Dubai, U.A.E.
PH: + 971 4-886-0180
FAX: + 971 4-886-0181
E-MAIL: sales@tidelandsignal.ltd.uk

WEB SITE: www.tidelandsignal.com



Tideland Signal Corporation maintains ISO 9001:2000 accreditation. It is company policy to provide products and services that meet the highest standards of quality in the industry.

Membership Organisations



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