

NodeLink



AUTONOMOUS NODAL DEPLOYMENT AND ASSET MANAGEMENT SYSTEM

DEPLOY, VERIFY, AND MONITOR NODAL SYSTEMS IN REAL TIME

NodeLink is a complete deployment and asset management system designed specifically for autonomous seismic node operations. Using either a Windows computer or Android device, field personnel can deploy seismic nodes directly on a graphical map while simultaneously receiving high-accuracy GPS positioning.

Node serial numbers are automatically identified using RFID technology, eliminating manual entry errors and increasing deployment speed. Node locations, deployment status, and asset information are recorded in real time and stored in a centralized database.

When combined with the optional Secure Connect IoT system, deployment information is immediately transmitted back to the central system where operations personnel can monitor progress live using SourceLink software.

FAST AND SIMPLE

The NodeLink System provides:

- Graphical map-based deployment
- Windows and Android operation
- High-accuracy GPS positioning
- RFID node identification
- Real-time deployment validation
- Automatic asset tracking
- Deployment and recovery workflows
- Centralized database management
- Integration with SourceLink software
- Optional Secure Connect IoT communications

OPTIONAL SECURE CONNECT INTEGRATION

When Secure Connect is enabled:

- Deployment data is transmitted immediately to the central system
- Real-time crew progress is displayed in SourceLink software
- Node locations can be viewed from any authorized workstation
- Management receives live deployment updates
- Asset status is continuously synchronized
- Eliminates end-of-day data transfers



SourceLink Software View



FEATURES AND BENEFITS

- HIGH ACCURACY**
Supports sub-meter and centimeter-level GPS positioning for precise node placement and recovery.
- RFID VERIFICATION**
Automatically reads node serial numbers using RFID technology, eliminating transcription errors and improving deployment speed.
- GRAPHICAL DEPLOYMENT**
Intuitive map interface allows crews to deploy and verify nodes directly from aerial imagery and survey maps.
- REAL-TIME MONITORING**
Monitor deployment progress as it occurs, including deployed nodes, remaining stations, and crew productivity.
- SECURE CONNECTIVITY**
Optional Secure Connect IoT communications provide immediate synchronization between field crews and central system.
- SOURCELINK INTEGRATION**
Deployment information appears automatically inside SourceLink software, allowing management to monitor operations from a central location.
- INCREASED PRODUCTIVITY**
Reduces paperwork, manual entry, and deployment errors while increasing crew efficiency.
- COMPLETE ASSET TRACKING**
Provides a complete audit trail of every node location, deployment time, recovery time, and operator activity.

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USING NODELINK

NODE DEPLOYMENT WORKFLOW

- 1 Connect GPS receiver to Windows computer or Android device.
- 2 Connect RFID reader.
- 3 Load project survey and deployment map.
- 4 Navigate to deployment location using graphical map.
- 5 Scan node RFID tag.
- 6 GPS position is automatically recorded.
- 7 Deployment information is stored locally.
- 8 Optional Secure Connect transmits data immediately.
- 9 SourceLink software displays deployment progress in real time.
- 10 Recovery operations use the same workflow for complete asset tracking.



NODELINK SPECIFICATIONS

PLATFORM SUPPORT

Windows PC	Standard
Android Tablets	Standard
Android Phones	Standard

GPS SUPPORT

External GPS	Standard
Sub-Meter Accuracy	Supported
RTK GPS	Supported
Centimeter Accuracy	Supported

RFID

Node Identification	Standard
Automatic Serial Number Capture	

COMMUNICATIONS

Wi-Fi	Standard
Bluetooth	Standard
USB	Standard

OPTIONS

SECURE CONNECT IOT
Provides live synchronization between field operations and the central system.

RTK GPS
Centimeter-level positioning for high-precision deployments.



DATA MANAGEMENT

Deployment Records	Standard
Recovery Records	Standard
Asset Tracking	Standard
Observer Logs	Standard
SourceLink Integration	Standard

OPTIONAL SECURE CONNECT

- Real-Time Synchronization
- Cloud Connectivity
- Live Deployment Monitoring
- Central Office Reporting
- Remote Project Visibility

GPS POSITIONING

RFID IDENTIFICATION

REAL-TIME DEPLOYMENT

IOT CONNECTIVITY

SOURCELINK INTEGRATION

ASSET MANAGEMENT

RFID PACKAGES
Multiple reader options available for different node manufacturers.

ENTERPRISE SOURCELINK INTEGRATION
Multi-crew deployment monitoring and project-wide asset management.

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