

# USPLN™

## A Stroke of Genius

- Location Accuracy Better Than 250m
- Detection Efficiency (POD) Greater Than 95%
- Real-time Cloud to Ground (CG) Flash Detection
- Real-time CG Stroke Detection
- Real-time Cloud Lightning Detection
- Amplitude Info Available for Every CG Detected
- Lightning Prediction Capability
- GIS-ready Data
- Archiving Allowed
- Multiple Data Centers with Full Redundancy

## Data Delivery

Both stroke and flash data are available in the format and frequency of your choice. CG reports include location, time, polarity and amplitude. Data can be delivered in real-time or bundled in 1, 5, or 15 minute increments. As the customer, you decide how, what and when you want your data and in the format that best suites your needs.

Data formats include:

- XML – standard XML format for seamless integration with your XML applications.
- MIDS – A binary format.
- CSV – comma separated values (ASCII) format that can be imported directly to MS Excel or other locally developed applications.
- GIS Point Shapefile – WDT, an ESRI Business Partner, provides lightning stroke and prediction data in certified ESRI GIS formats.

# Real-time Lightning Display

USPLN data are available via the Internet in common formats or by satellite communications for display in your existing lightning GIS display system or in the USPLN lightning display systems.



### WxScope™ Plugin

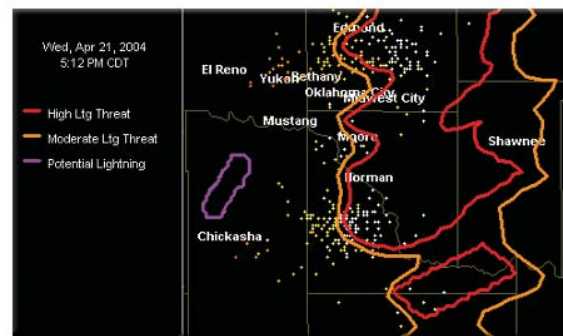
Clients can use WDT's proprietary WxScope Plugin, a web based display that can display lightning data alone or in conjunction with lightning predictions or other weather data such as radar, satellite, surface data and model forecasts. Actual lightning strikes can be displayed with your custom map overlays, giving a clear and concise profile of where lightning activity is occurring in relationship to the location of the assets you are protecting.

### MIDS™

TOA's MIDS display software is designed for use by professional and layman alike. The software is compatible with either Internet or satellite delivery and has a number of features not previously seen in lightning display software. Multiple map capabilities, as well as other features such as color coding by time or amplitude, text and audio controls and overlaying your assets are provided in a user-friendly interface. Other features include range rings and polygon range alarm boundaries, data archival, printing of data in text or graphic formats, zoom, and an ability to predefine the coverage area for various map windows.

## Lightning Prediction

The Lightning Prediction Algorithm (LPA) is a WDT proprietary algorithm that shows where lightning activity will impact in the future (displayed within WDT's WxScope Plugin). The LPA is 96% accurate out to 30 minutes and 99% accurate out to 10 minutes. Lightning alerts, such as "Lightning will impact your location beginning at 3:45 p.m. and will depart by 4:10 p.m." can be provided for your assets.



USPLN Partners



## USPLN™ Partners

TOA Systems and Weather Decision Technologies are the USPLN Partners. Together, with a shared vision, they pooled their unique abilities and technical resources to create a new lightning detection network in the United States that gives new meaning to the word "precision." Mike Eilts, WDT's CEO, said "We recognized TOA's ability to bring a state-of-the science lightning detection network to the United States market. We knew that the marketplace wanted a new choice for this type of service." Confident in their expertise to design and deploy a new network, TOA's CEO, Dr. Rodney Bent, needed a partner to help offer customers more than lightning detection services. "WDT was the ideal partner for us", said Dr. Bent. "WDT has terrific relationships and is respected throughout the meteorological industry. WDT understands the needs of customers in this market and is a technology company like us with abilities that no other partner could offer."

## USPLN™ Network

Jointly, the USPLN Partners built the United States Precision Lightning Network in 2004. Initially deployed with approximately 100 of TOA's patented Precision Lightning Sensors throughout the continental U.S. and in the Caribbean Islands, the USPLN is designed to create the most accurate and affordable real-time lightning data service and value-added products available. The USPLN is a reliable network managed in both TOA's and WDT's high-end data centers. Communication and delivery systems are fully redundant maximizing service uptime.



### About TOA Systems, Inc,

TOA Systems is headquartered in Melbourne, Florida. TOA's founders developed, patented and marketed the first time-of-arrival lightning location systems. TOA has designed, deployed and operated sophisticated lightning detection networks around the world including the United States, Australia, Brunei and in Europe.

### About Weather Decision Technologies, Inc.

Weather Decision Technologies, headquartered in Norman, Oklahoma, specializes in commercializing and customizing weather prediction services that meet the unique needs of its customers and partners.



### Meeting Your Lightning Needs

Affordable..High-Quality..Reliable...Customer Friendly...Just a few words that we like to use to describe our mission as the USPLN is introduced to the market. We are striving to put a new face in the lightning service industry in the United States. Our experienced USPLN sales team led by Mike Eilts would be pleased to discuss your real-time lightning service needs. They are ready to talk to you about how the USPLN is not only "A Stroke of Genius" but right for your business. Contact us today.



Mike Eilts



Mike Edwards



Bill Geitz



Brandon Wilkes

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A USPLN Partner  
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