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FipsServer™

Detailed Description

Professional Integrated Weather Information and Alerting System

Weather Information Provided:

FipsServer™ is the next generation of Thunder Eagle's legendary weather information systems which integrates:

Professional weather station, including temperature, humidity, barometer, rain rate and rain fall, lightning, solar, wind speed and direction	National Weather Service (NWS) digital database text alert messages and new EAS CAP 1.2 national alert messages
NOAA Weather Radio SAME/EAS Alerts	NOAA Weather Radio streaming audio
NWS graphic and digital 5 day forecasts and warnings	Email Printer and Led Signboards
NWS Local and National Doppler radar with roads, storm tracks and warnings	Traffic camera
IFlows flood gauges and other customer desired web links	NWS satellite images
Client's logo to show community sponsorship	

Current Conditions

	Latest Observation: 4:30:39 PM Tuesday, April 27, 2010 Vienna, VA	Outside Temp: 58° F	 3 MPH	 Sunny - 23	 No Lightning No Lightning Detected 0 Strikes/Min	Precipitation Totals Today: 00.00" This Month: 01.17" This Year: 11.35"
No active NOAA Weather Radio alerts.		Active NWS text alerts		Active local messages.		NOAA Weather Radio Manassas, VA

<input type="button" value="Start"/> <input type="button" value="Stopped"/> <input type="button" value="Stop"/> AlertEagle	<table border="1"> <thead> <tr> <th></th> <th>Current:</th> <th>High:</th> <th>Low:</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>58 F</td> <td>61 F @ 11:54</td> <td>51 F @ 07:03</td> </tr> <tr> <td>Winds</td> <td>WNW 3 MPH</td> <td>SW 13 MPH @ 12:52</td> <td></td> </tr> <tr> <td>Humidity</td> <td>36%</td> <td>91% @ 00:00</td> <td>36% @ 16:29</td> </tr> <tr> <td>Barometric Pressure</td> <td>29.51R"</td> <td>29.52" @ 16:29</td> <td>29.29" @ 00:00</td> </tr> <tr> <td>Precipitation Rate</td> <td>00.00"/hr</td> <td>00.00" /hr @ 00:00</td> <td></td> </tr> <tr> <td>Precipitation Totals</td> <td>Today: 00.00"</td> <td>This Month: 01.17"</td> <td>This Year: 11.35"</td> </tr> <tr> <td>Lightning</td> <td>0 Strikes/Min</td> <td>0 @ 00:00</td> <td></td> </tr> <tr> <td>Solar Readings</td> <td>Sunny - 23 Watts/Meter²</td> <td>Bright Sun - 99 @ 12:26</td> <td></td> </tr> <tr> <td>Dew Point</td> <td>30°F</td> <td></td> <td></td> </tr> <tr> <td>Heat Index</td> <td>58°F</td> <td></td> <td></td> </tr> <tr> <td>Wind Chill</td> <td>57°F</td> <td></td> <td></td> </tr> </tbody> </table>		Current:	High:	Low:	Temperature	58 F	61 F @ 11:54	51 F @ 07:03	Winds	WNW 3 MPH	SW 13 MPH @ 12:52		Humidity	36%	91% @ 00:00	36% @ 16:29	Barometric Pressure	29.51R"	29.52" @ 16:29	29.29" @ 00:00	Precipitation Rate	00.00"/hr	00.00" /hr @ 00:00		Precipitation Totals	Today: 00.00"	This Month: 01.17"	This Year: 11.35"	Lightning	0 Strikes/Min	0 @ 00:00		Solar Readings	Sunny - 23 Watts/Meter ²	Bright Sun - 99 @ 12:26		Dew Point	30°F			Heat Index	58°F			Wind Chill	57°F		
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NOAA Weather Radio EAS/ SAME Alerts							
Num	Status	Event	Expire Date	Expire Time	Remaining Time	Locations	Date and Time Posted
3	Active	Blizzard Warning	2/10/2010	1:46 PM	03:46:40	MD-St.Mary's*MD-Calvert*	2/10/2010 7:58:20 AM
2	Active	Blizzard Warning	2/10/2010	1:46 PM	03:46:40	MD-Montgomery*MD-PrinceGeorge's*	2/10/2010 7:55:20 AM
1	Active	Blizzard Warning	2/10/2010	1:46 PM	03:46:40	DC-DistrictofColumbia*MD-Charles*VA-Warren*VA-Clarke*VA-Loudoun*VA-PrinceWilliam*VA-CityofManassas*VA-CityofManassasPark*VA-Fairfax*VA-CityofFairfax*VA-Arlington*VA-CityofAlexandria*VA-CityofFallsChurch*VA-Stafford*VA-KingGeorge*VA-Fauquier*WV-Jefferson*	2/10/2010 7:49:26 AM

Color coded weather and emergency alerts from NOAA Weather Radio (NWR), and from the NWS digital warning database, automatically appear in the web grid when active. These alerts automatically disappear when they expire.

The NOAA weather radio alerts will appear in a color coded grid with the following features:

Color coded watches, warnings and tests	Warning=red; Watch=yellow; Test=green
Expire date and time	
Remaining time countdown timer	
Locations	
Issue date and time	
An alert indication on the header while alerts are active	

NWS Digital Alert Messages						
Active Watches, Warnings and Advisories						
Status	Event	Severity	Area	Details	Expire Time	Fips Code
OK	Flood Warning	Moderate	Isle of Wight; Southampton; City of Franklin; City of Suffolk	FOR THE CHOWAN BASIN...INCLUDING SEBRELL...FRANKLIN...MODERATE FLOODING IS OCCURRING AND IS EXPECTED TO CONTINUE...FLOOD WARNING EXTENDED UNTIL SATURDAY AFTERNOON...THE FLOOD WARNING CONTINUES FOR THE BLACKWATER RIVER ABOVE FRANKLIN * UNTIL SATURDAY AFTERNOON...OR UNTIL THE WARNING IS CANCELLED. * AT 03:45 AM FRIDAY THE STAGE WAS 12.5 FEET * FLOOD STAGE IS 12.0 FEET * FORECAST...THE RIVER...WHICH CRESTED NEAR 13.2 FT...WILL CONTINUE TO FALL TO BELOW FLOOD STAGE BY TOMORROW MORNING. * AT 12.5 FEET...A PORTION OF ROUTE 611...JOYNERS BRIDGE	14:18 -- 02/13/2010	<051093> <051175> <051620> <051800>

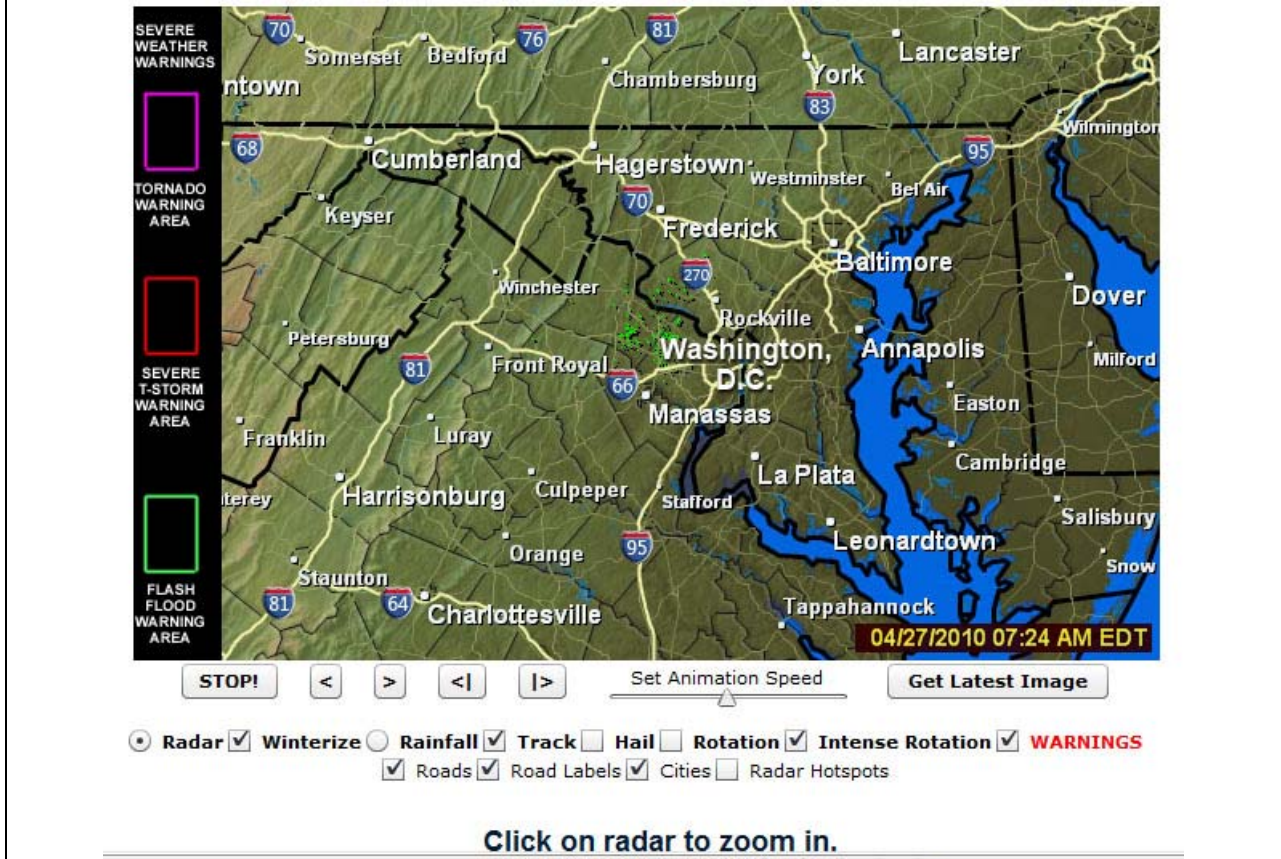
The digital text alerts provide the full text description of the alert for any user selected location in the United States to monitor remote locations. Advisories and statements, which are not tone-alerted on NWR, appear in the digital database.

National Radar



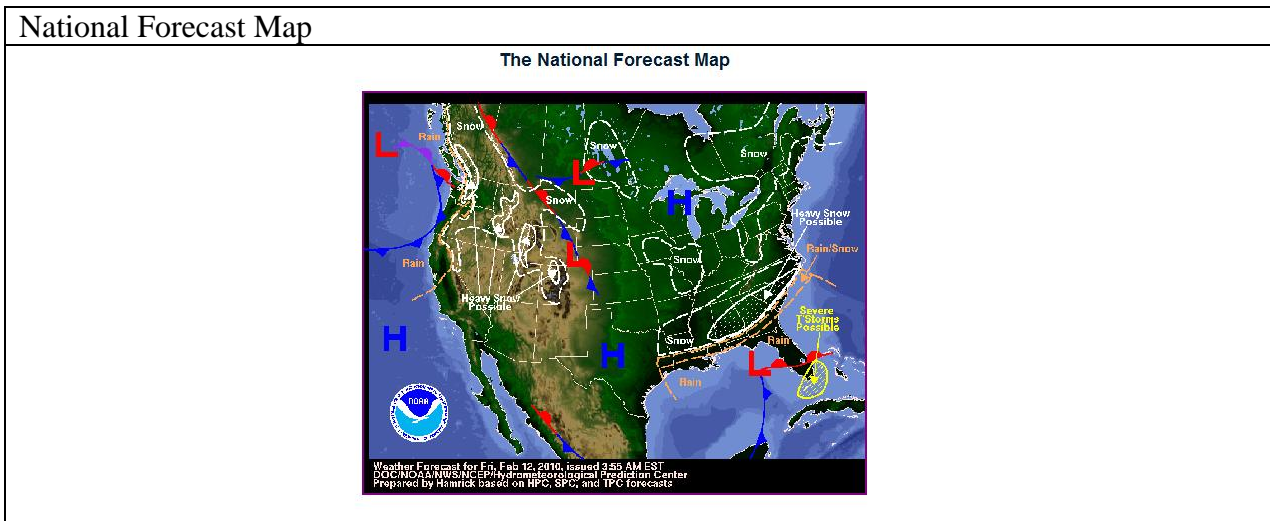
The national Doppler radar map has been custom configured for Thunder Eagle and shows active storms and warnings in a continuous loop.

Local Radar



Click on radar to zoom in.

The local looping Doppler radar is also custom-configured for Thunder Eagle and is centered on your location. Individual website users can control the many settings on this radar including zooming in on a certain location. Roads, storm tracks, alert boxes, and intense tornadic rotation signatures automatically appear on the radar image.



The national forecast map provides a graphical representation of the forecast for the entire country.

NWS Forecasts

NWS Forecast for: Vienna VA
 Issued by: National Weather Service Baltimore, MD/Washington, D.C.
 Last Update: 9:05 am EST Feb 12, 2010

Print

This Afternoon	Tonight	Saturday	Saturday Night	Sunday	Sunday Night	Presidents' Day	Monday Night	Tuesday
Mostly Sunny Hi 36 °F	Mostly Cloudy Lo 21 °F	Partly Sunny Hi 32 °F	Partly Cloudy Lo 19 °F	Mostly Sunny Hi 35 °F	Partly Cloudy Lo 19 °F	50% Chance Snow Hi 33 °F	50% Chance Snow Lo 23 °F	Mostly Cloudy Hi 34 °F

This Afternoon: Mostly sunny, with a high near 36. Northwest wind between 8 and 10 mph.

Tonight: Mostly cloudy, with a low around 21. North wind between 6 and 8 mph.

Saturday: Partly sunny, with a high near 32. North wind between 11 and 18 mph.

Saturday Night: Partly cloudy, with a low around 19. West wind between 14 and 16 mph.

Sunday: Mostly sunny, with a high near 35. West wind between 14 and 16 mph.

Sunday Night: Partly cloudy, with a low around 19.

Presidents' Day: A chance of snow. Mostly cloudy, with a high near 33. Chance of precipitation is 50%.

Monday Night: A chance of snow. Cloudy, with a low around 23. Chance of precipitation is 50%.

Tuesday: Mostly cloudy, with a high near 34.

NWS forecasts, including the popular five day forecast-at-a-glance icons, as well as watches, warnings, statements and advisories for your location, automatically appear on the website. This page is printable and has links to your local NWS office for further information.

Local Traffic Cameras

TrafficLand

I-66 at Nutley St

Washington: I-66 @ Nutley St
Provided by VDOT

[View Camera Live](#) [Other Cameras](#) [Get This Widget](#)

Your local traffic camera, or other cameras, can be added to the web site.

IFlows Rain and Flooding Gauges

No active NOAA Weather Radio alerts. **No active NWS text alerts** **Active local messages.** **NOAA Weather Radio Bristol, VA**

[Start](#) [Stopper](#) [Stop](#)

[AlertEagle](#)

Conditions
NWR Alerts
NWS Alerts
Satellite
National Radar
Local Radar
Forecast
Forecast Map
IFLOWS
Traffic
Messages
Photos

Last Updated: Wednesday April 28, 2010 at 09:45:01 AM EDT
Missing gage reports are indicated by dashes (-).
Current Rainfall Data for Scott County, Virginia:

GAGE NAME	ID	15 MIN	30 MIN	1 HOUR	3 HOUR	6 HOUR	12 HOUR	24 HOUR
Camp Rock	1033	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Purchase Ridge	1035	-	-	-	-	-	-	-
Little Duck	1062	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Dungannon	1144	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Ft Blackmore	1146	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Stoney Creek	1148	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Big Moccasin	1152	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Natural Tunnel	1435	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Gate City	1446	0.00	0.00	0.00	0.00	0.00	0.00	0.08

Stage Data (In feet. (-) indicates no report for specified time frame.)

GAGE NAME	ID	CURRENT	3 HOUR	6 HOUR	12 HOUR	24 HOUR
		9:45am (04/28)	6:45am (04/28)	3:45am (04/28)	9:45pm (04/27)	9:45am (04/27)
Dungannon SG	1145	4.8	4.8	4.8	4.8	4.8
Ft Blackmore SG	1147	2.9	2.9	2.9	2.9	3.0
Stoney Creek SG	1149	3.0	3.0	3.0	3.0	3.0
Big Moccasin SG	1153	1.5	1.5	1.5	1.5	1.6
Gate City SG	1487	3.1	3.1	3.1	3.1	3.2

Gages
● Rain

IFlows, and other locally important links, can easily be added as tabs to your website.

Equipment Provided:

Thunder Eagle strives to create the above information source for each client as a plug-and-play rack-mounted and pre-wired system containing:

Weather Eagle® 110 NOAA Weather Radio Receiver	http://www.weathereagle.com/we110.htm
Alert Eagle® 120 EAS/SAME Decoder	http://www.weathereagle.com/ae120.htm
Texas Weather Instruments Pro Weather Station	http://www.weathereagle.com/tx-wx.htm
VoIP for streaming NOAA Weather Radio	http://www.weathereagle.com/voip.htm
Ethernet connections to our server	http://www.weathereagle.com/NI200.htm

IP addresses, provided by the client, will be pre-programmed into the units.

The client will install the following equipment:

Item	Description
Install the outside radio antenna	For WE110 NOAA weather radio
Install outside weather sensors	For Texas Weather Instruments weather station
Ethernet connection	To send data to the Thunder Eagle server
120 VAC power with backup generator (if possible)	To reliably power the system

Professional Weather Station



Our software obtains complete, professional, weather data from the Texas Weather Instruments weather station, and enables the user to synchronize the weather settings with local calibrated references, such as airport observations. Additionally, our software integrates the raw weather readings to provide 'smart' observations. For example solar readings are integrated with the local sunrise / sunset data and the rain sensor, to provide sunrise, sunset, light or heavy rain, and various severity thresholds of lightning detection.

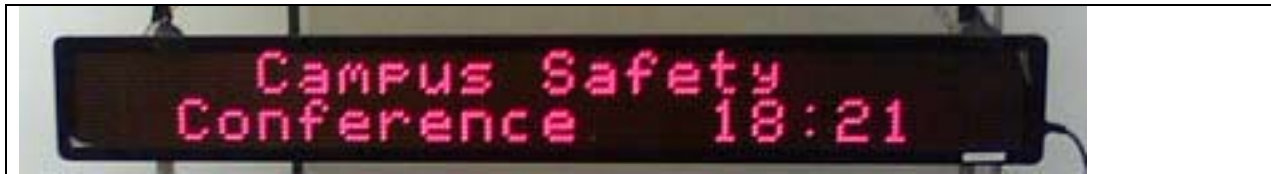
Printer

Rugged Ethernet enabled printers can be added to the system. Just plug the printer into 120VAC power and connect it to the Ethernet and our server will automatically send alert messages to the printer.

Printers can easily be placed at remote locations without having to configure the local IT network.



- **LED Signboards**



The two line led sign boards are Ethernet enabled and will receive alert messages from the server.

- **Email**

The FipsServer will send the alerts to user selected emails and text enabled cell phones.

- **Your Logo**

Your Logo Can Be Placed on the Web Site for Customization

	Latest Observation: 4:50:05 PM Tuesday, April 27, 2010 Gate City, VA	Outside Temp: 42° F	 4 MPH	 Rain	No Lightning No Lightning Detected 0 Strikes/Min	Precipitation Totals Today: 00.22" This Month: 02.15" This Year: 10.79"
	No active NOAA Weather Radio alerts.	Active NWS text alerts	Active local messages.	NOAA Weather Radio Bristol, VA		
Start Running Stop	NWS Forecast for: Gate City VA Issued by: National Weather Service Morristown, TN Last Update: 2:49 pm EDT Apr 27, 2010					

Your logo shows your organization's support of the entire community with this vital weather information 24/7/365.

Provision of Services:

Thunder Eagle's server handles all of the hard work of taking and processing the data from NWR and the NWS and the weather sensors and placing the data on the template websites, in addition to obtaining weather information from many sources on the web.

Thunder Eagle will host web sites for both computer users and mobile users.

Our server will host the NOAA weather radio audio stream that can be accessed from computers and web enabled cell phones.

Thunder Eagle will use its best efforts to provide reliable server services, but due to many conditions beyond our control, 100% up time cannot be guaranteed.

Thunder Eagle will provide telephone and email support during normal business hours during the term of this agreement.

One year warranty on equipment, not including damage due to lightning or acts of g-d or misuse of the equipment, is provided.

Terms: Net 30

Revised 11/09/2010