Schneider Electric

Comprehensive Weather Decision Support for Transportation

2014 FHWA Road Weather Management Meeting

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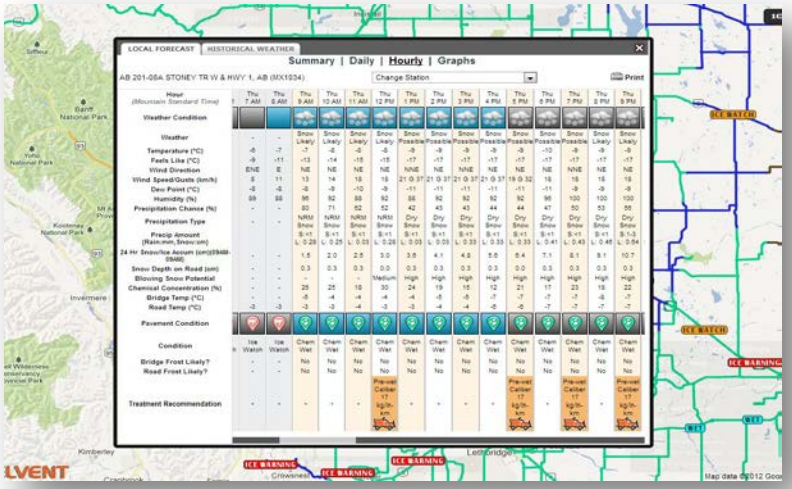
Transportation Industry Manager

Schneider Electric

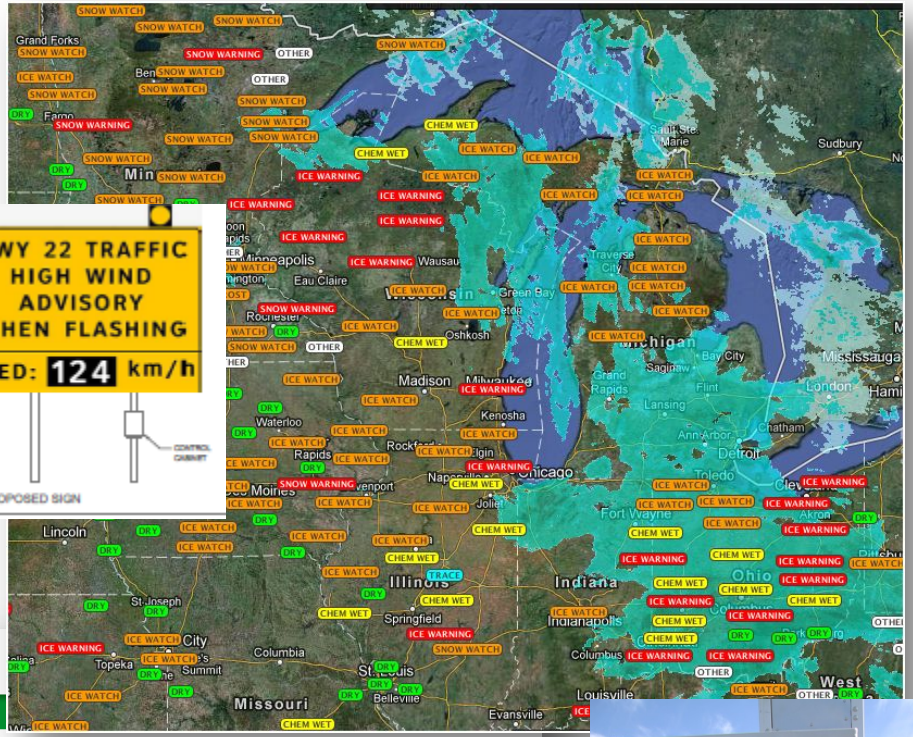
Schneider Electric Transportation Division

- Full Transportation Services
  - Maintenance Operations
  - Traffic/ITS Operations
  - Construction Operations
  - Aviation Operations
- Forecast Accuracy Drives Effective Decisions
  - Annual R&D focus on accuracy
  - Composite model approach, additional adjustments
  - Meteorologists influence forecast
- Professional Meteorological Consultation
  - 50 professional degreed meteorologists, 4 CCMs, available 24x7x365 via phone or forum
  - Post storm reviews increase knowledge for next storm
- Advanced Technology
  - “Adaptive learning” forecast model based on revolutionary NCAR R&D
  - Meteorologist input to forecasts



Open RWIS System Services

- RWIS Design and Implementation
- RWIS Data Management
- RWIS Maintenance
- ITS Integration



Schneider Electric | M...
Pavement Forecast Transportation Edition

Home | Settings

- Briefing
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- Weather
- Local Forecast
- **RWIS Summary**
- National Graphics
- International Graphics
- Hurricane Weather
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RWIS Summary

INDIANA DOT STATIONS

Road Conditions Summary at 9:3...DT 4/8/14

Print >>>

Station / Sensor ID	Time (EDT)	Air Temp (°F)	Dew Point (°F)	Rel Hum (%)	Wind (mph)	Vis (miles)	Precip Detection	Precip Intensity	Precipitation Type	Rate (inches/hr)	Surface Condition 0	1	2	3	4	Road Temp (°F) 0	1	2	3	4	Bridge Temp (°F) 0	1	2	3
IN CORYDON	2/15/14 1:06 PM EST	25.3	16.2	67	N 3 G 5	-	-	-	-	-	Trace	Wet	-	-	-	40.6	36.5	-	-	-	-	-	-	-
IN 23 L APPROACH (37001)	4/8/14 9:16 AM EDT	Error	Error	Error	-	0	Yes	Other	Precip	-	Dry	-	-	-	-	48.7	-	-	-	-	-	-	-	-
IN 23L Midpoint (37000)	4/8/14 9:16 AM EDT	43.7	42.4	95	- 4 G 6	0	-	-	-	-	Dry	Dry	-	-	-	49.6	47.8	-	-	-	-	-	-	-
IN 23R Approach (37004)	4/8/14 9:16 AM EDT	Error	Error	Error	-	0	Yes	Other	Precip	-	Dry	Trace	-	-	-	48.6	45.0	-	-	-	-	-	-	-
IN 23R Midpoint (37005)	4/8/14 9:16 AM EDT	Error	Error	Error	-	0	Yes	Other	Precip	-	Dry	-	-	-	-	47.3	-	-	-	-	-	-	-	-
IN 32 TDZ (37003)	4/8/14 9:16 AM EDT	Error	Error	Error	- 5 G 7	0	-	-	-	-	Trace	Wet	Trace	Trace	-	45.1	45.7	45.9	44.8	-	-	-	-	-
IN 5L TDZ/B West TWY (37006)	4/8/14 9:16 AM EDT	43.2	-9.8	9	- 4 G 6	0	-	-	-	-	Trace	-	-	-	-	47.3	-	-	-	-	-	-	-	-
IN AMITY	2/15/14 1:08 PM EST	26.2	15.6	63	N 4 G 7	-	-	-	-	-	Wet	Wet	-	-	-	42.8	38.7	-	-	-	-	-	-	-
IN GEORGETOWN RD BRIDGE OVE...	8/16/12 4:34 PM EDT	-	-	-	-	-	-	-	-	-	Wet	Wet	Wet	Wet	-	73.0	72.7	-	-	-	-	-	72.1	71.0
IN INDIANAPOLIS (575005)					4 G 9	0	-	-	-	-	Dry	Dry	Trace	-	-	47.8	-	-	-	-	-	46.8	45.5	-
IN Market St. to I65 & I70					5 G 8	0	Yes	Other	Precip	-	Dry	Dry	Dry	-	-	47.7	47.5	46.8	-	-	-	-	-	-
IN Mcgregor Rd. over Buck C...					LV G LV	-	Yes	Error	Precip	-	Error	Wet	-	-	-	-	-	-	-	-	44.7	43.2	-	-
IN RWY 14 TDZ (37002)					6 G 7	0	-	-	-	-	Trace	Trace	-	-	-	44.6	45.0	-	-	-	-	-	-	-
IN SCOTTSBURG					Calm	-	-	-	-	-	Wet	Wet	-	-	-	44.2	46.9	-	-	-	-	-	-	-
IN TAXIWAY ROMEO (37007)					6 G 9	0	-	-	-	-	Trace	Trace	Trace	Trace	Trace	46.0	46.0	46.4	46.6	45.7	-	-	-	-
IN VERSAILLES	2/15/14 1:06 PM EST	29.1	15.3	55	WNW 3 G 11	-	-	-	-	-	Wet	Wet	-	-	-	46.8	43.7	-	-	-	-	-	-	-

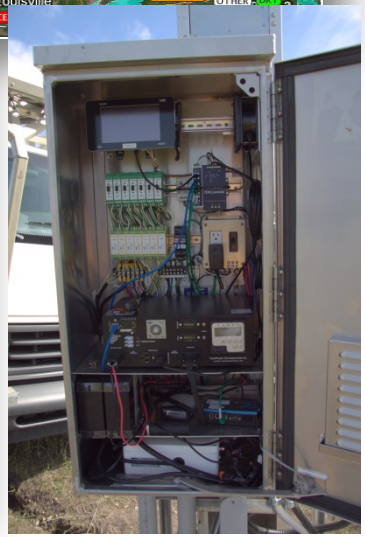
IN026 - IN GEORGETOWN RD BRIDGE OVER I-65 (575000)

Sensor List
0:Geotown Rd. NB Departure Left (0)
1:Geotown Rd. NB Departure Right (1)
2:Geotown Rd. NB Bridge Left (2)
3:Geotown Rd. NB Bridge Right (2)

Click the station name to view station history

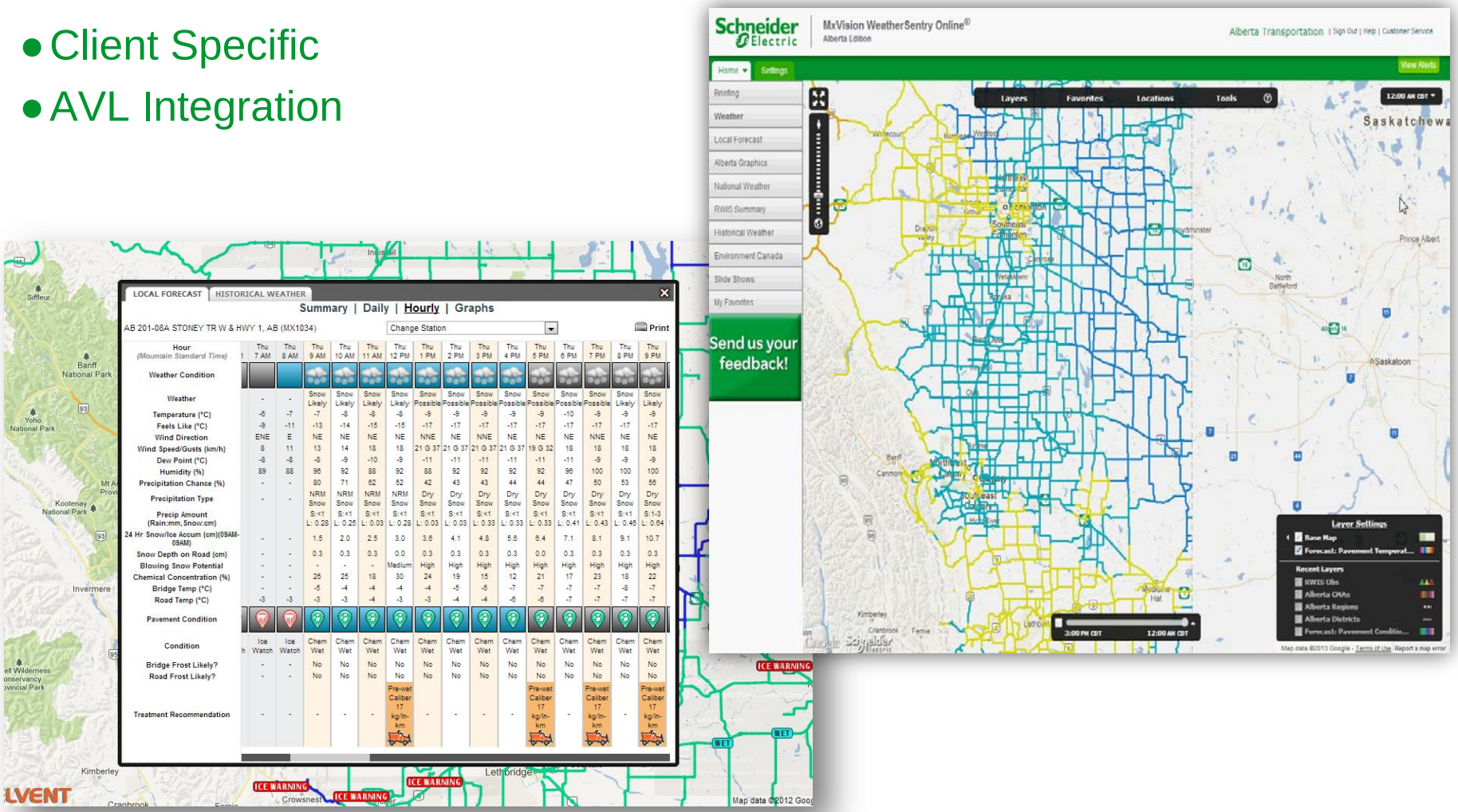
Move the slider to view all sensor parameters

Value failed one or more quality control checks



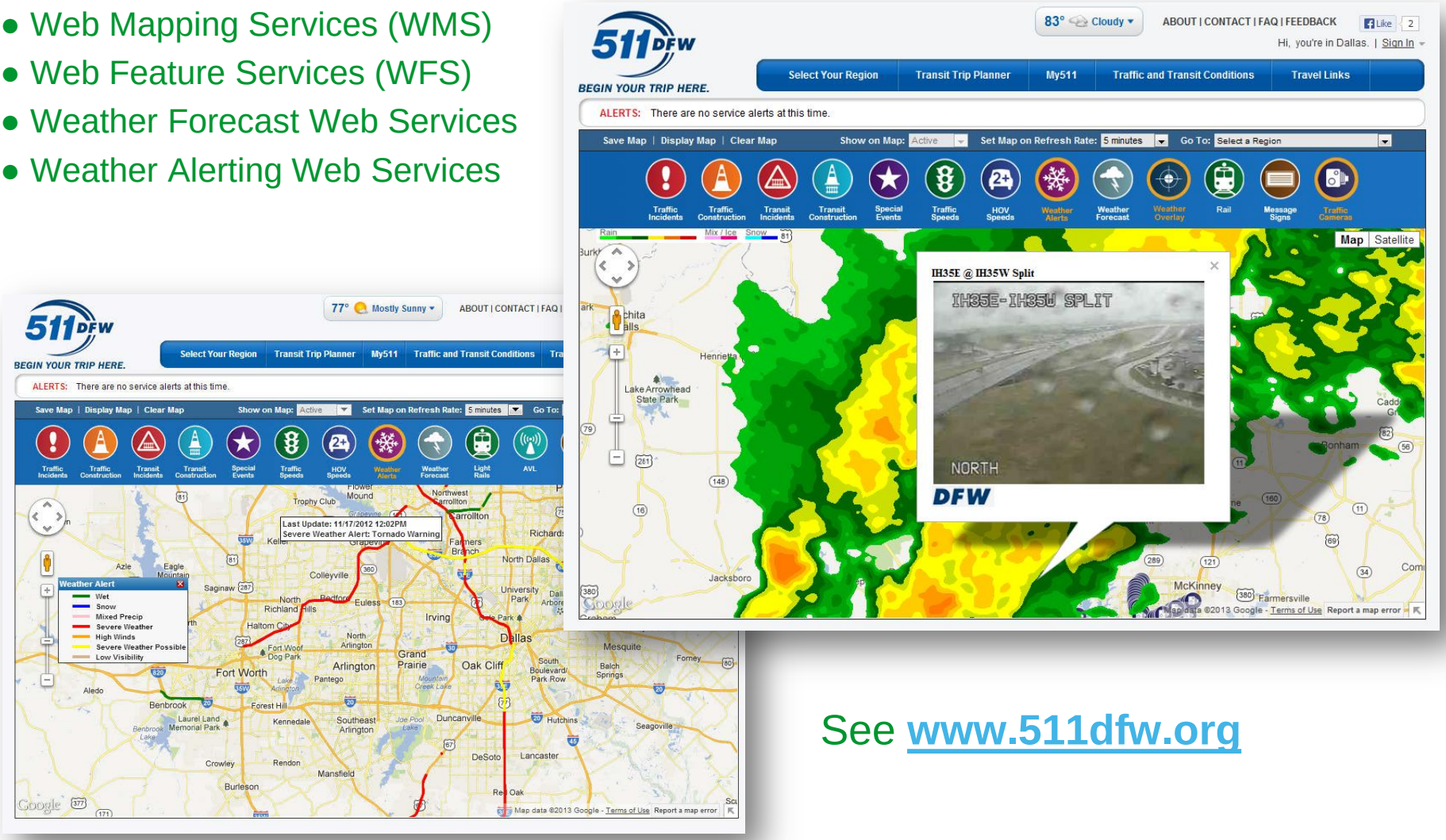
MDSS Enhancements

- Ease of Use
- Client Specific
- AVL Integration



Web Services Enhancements

- Web Mapping Services (WMS)
- Web Feature Services (WFS)
- Weather Forecast Web Services
- Weather Alerting Web Services



See www.511dfw.org

Client Partnership is Our Focus!

- Client Feedback Drives our Development
- Client Feedback Drives our Operations
- New Hampshire DOT Certified Public Manager Program
- Pathfinder Project with Nevada DOT
- Open Systems Approach

Thank you!

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