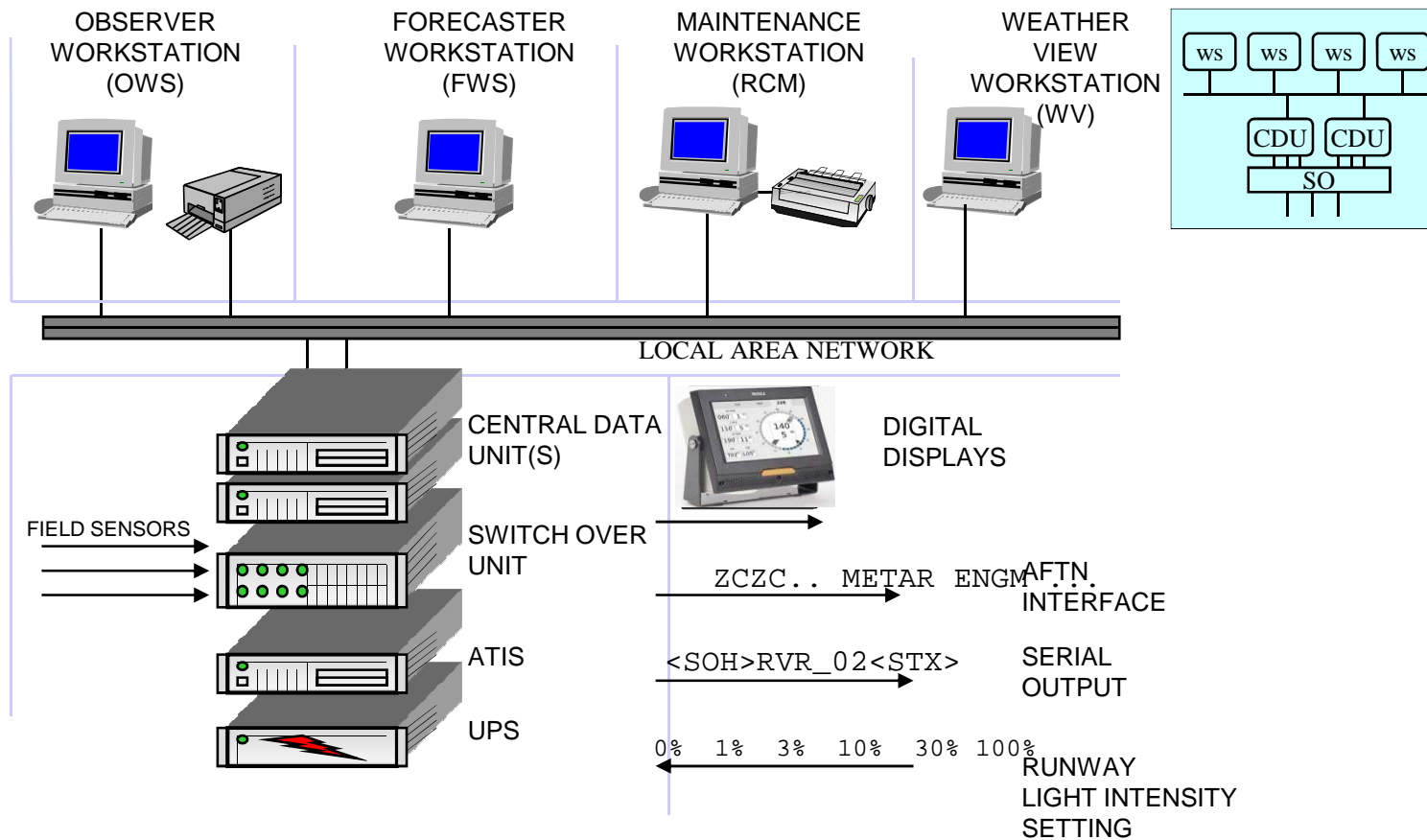
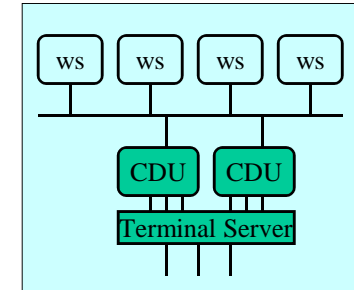


AviMet: System architecture

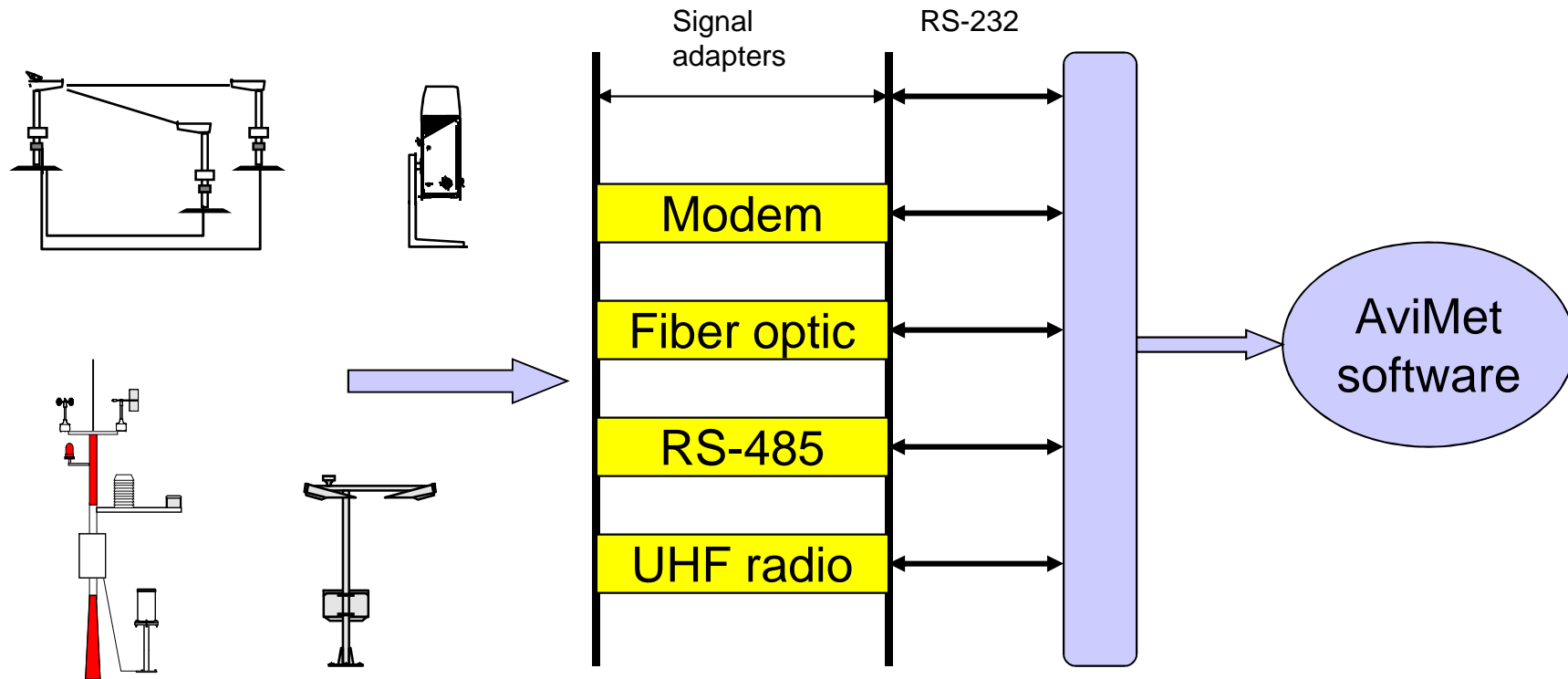


Central Data Unit (CDU)

- CDU tasks
 - Sensor data acquisition and validation
 - Meteorological calculations
 - Sensor service interface
 - Alarm services
 - Single or dual configuration
 - dual hot-standby configuration with Switchover Unit provides increased reliability and uptime

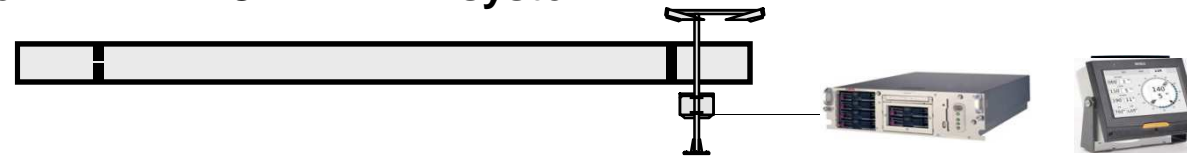


Data acquisition: Field sensor connections

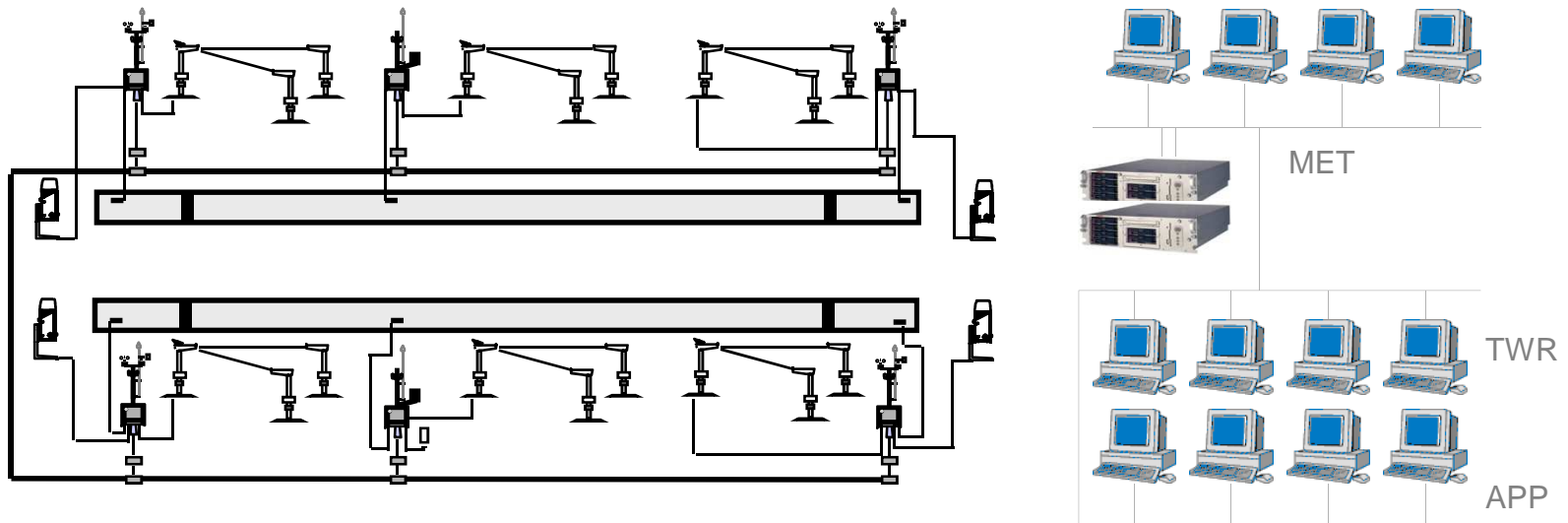


AviMet: Scalability

Small system: 1 RWY CAT I RVR system



Large system: 2 RWY CAT IIIB AWOS



Meteorological messages and AFTN

- METAR/SPECI
- SYNOP
- TAF
- SIGMET
- AFTN interface:
 - message formats: IA-5, ITA-2
 - viewing of outgoing messages
 - message transmission via serial port, TCP/IP socket or FTP

- Data storage for...

Data storage

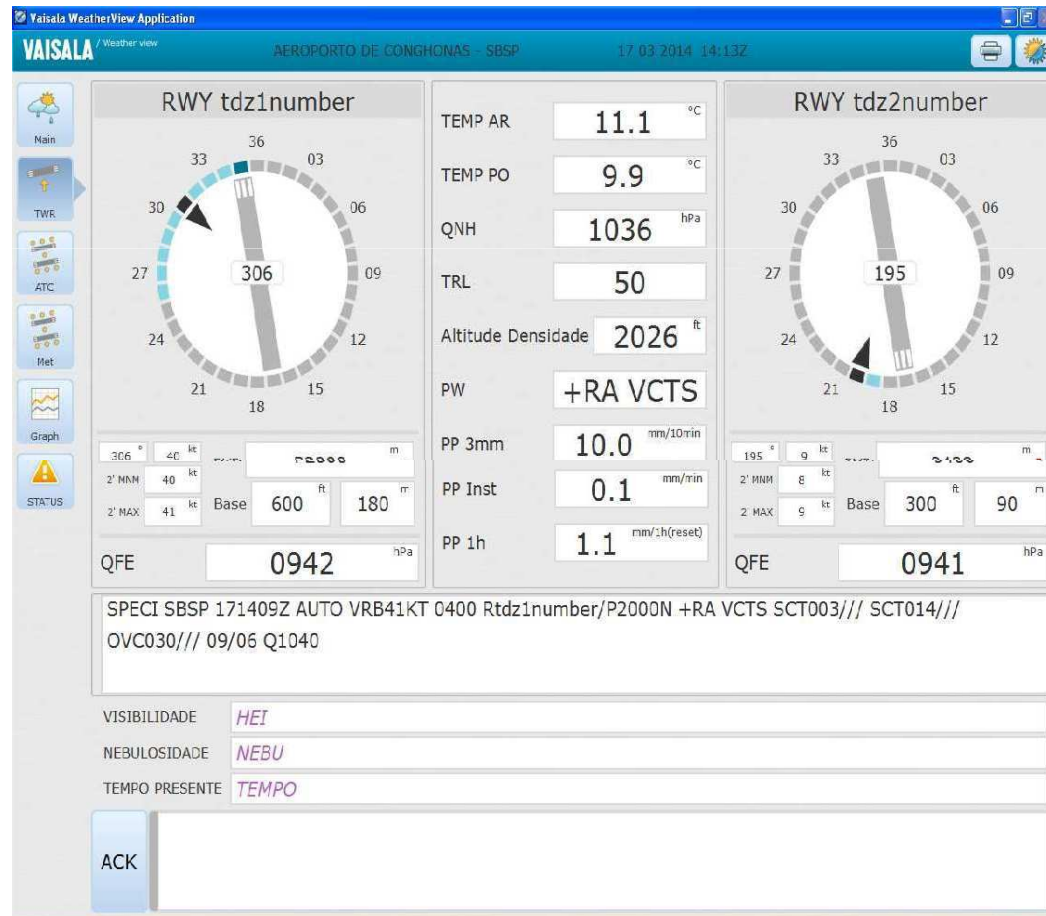
- measured and calculated variables
- meteorological messages
- alarms
- Up to one year storage time
- Human-readable file format
- Viewer application for easy access to data

The screenshot shows a window titled "ASCII Log View - [RVR01_15.his]". The window contains a table with the following columns: CREATEDATE, SITE, RVR_1A, RVR_10M, RVR_10A, RVR_10X, RVR_TEND, MDR_1A, and MDR_10M. The data is organized into a table with 19 rows of records. The status bar at the bottom indicates "Records: 393" and "MIDAS IV".

CREATEDATE	SITE	RVR_1A	RVR_10M	RVR_10A	RVR_10X	RVR_TEND	MDR_1A	MDR_10M
2000-03-15 01:27:00	12	800	650	750	1100	0	250	100
2000-03-15 01:28:00	12	600	500	700	1100	0	150	100
2000-03-15 01:29:00	12	450	400	550	700	0	100	100
2000-03-15 01:30:00	12	500	400	500	550	-1	150	100
2000-03-15 01:31:00	12	550	400	500	550	-1	150	100
2000-03-15 01:32:00	12	750	400	550	900	-1	200	100
2000-03-15 01:33:00	12	1100	400	550	1100	-1	350	100
2000-03-15 01:34:00	12	1000	750	1000	1100	0	300	100
2000-03-15 01:35:00	12	1300	900	1100	1300	1	450	100
2000-03-15 01:36:00	12	1300	900	1200	1300	1	400	100
2000-03-15 01:37:00	12	1300	900	1200	1300	1	450	100
2000-03-15 01:38:00	12	1300	900	1200	1400	1	450	100
2000-03-15 01:39:00	12	1100	900	1200	1400	1	350	100
2000-03-15 01:40:00	12	1000	800	1100	1400	1	300	150
2000-03-15 01:41:00	12	800	650	1100	1400	0	250	150
2000-03-15 01:42:00	12	550	500	1100	1400	-1	150	150
2000-03-15 01:43:00	12	650	500	600	650	-1	150	150
2000-03-15 01:44:00	12	700	600	650	750	-1	200	150
2000-03-15 01:45:00	12	650	600	650	750	-1	200	150

Applications: Weather View

- Any measured or calculated data can be displayed
- Up to 6 pages for different configurations
- Read-only access



Applications: METAR Template

- edit, validate and send METAR and SPECI
- opens automatically on schedule with data from sensors
- adjustable editing time
- parameter cross-checking
- automated METAR optional
- corrected and delayed messages

The screenshot shows the Vaisala METAR application interface. The window title is "VAISALA" and the menu bar includes "METAR", "SPECI/COR", "MET REPORT", "SPECIAL", and "SETUP". The main area is titled "METAR" and contains a form with the following fields:

Field	Value	Mode
HEADER	YUDO 270630Z	C NEXT_REPORT
WIND	10004KT 050V150	C RWY12R
VIS	7000 1400/	C AUTOMATIC
RVR	R12R/P2000N	C RWY12R
RVR2		C MANUAL
PW	BRR	C MANUAL
CLOUD	NSC	C AERODROME
TEMP	30/15	C RWYMET
PRESS	Q1000	C AUTOMATIC
SUPP		C MANOBS
TREND	NOSIG	C NOSIG
RMK		C MANUAL

At the bottom, there is a "MODE" section with "MANUAL" selected, "STATE" set to "EDITING", and "Time left" at "06:20". The "VALIDATOR" is set to "ON". A validation message reads: "Mist (BR) reported with too good visibility". The bottom right contains buttons for "Update", "Cancel", "Copy", "Paste", "Build", and "Send". The main text area displays the generated METAR: "METAR YUDO 270630Z 10004KT 050V150 7000 1400/ R12R/P2000N BRR NSC 30/15 Q1000 NOSIG".

Digital Display



- Vaisala WID511 Digital Display for Wind data.
- Vaisala WID511TU Digital Display for Wind, Temperature and Humidity data.