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OBSERVATION NETWORK MANAGER

NM10

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One Platform is All You Need

- Fully integrated system for efficiently managing weather observation networks
  - Remotely manage a wide variety of data sources
  - See everything from one place
  - Collect and maintain high-quality data from all your sites and keep your network up and running - continuously.
  - Fully scalable - perfect for small and large networks
  - Reduce costs with the Commercial Off-The-Shelf (COTS) solution - tailored for your exact needs
  - Improve efficiency with a remote connection - control and diagnose the whole observation network
  - Stay up to date and take timely action
  - Store and export data

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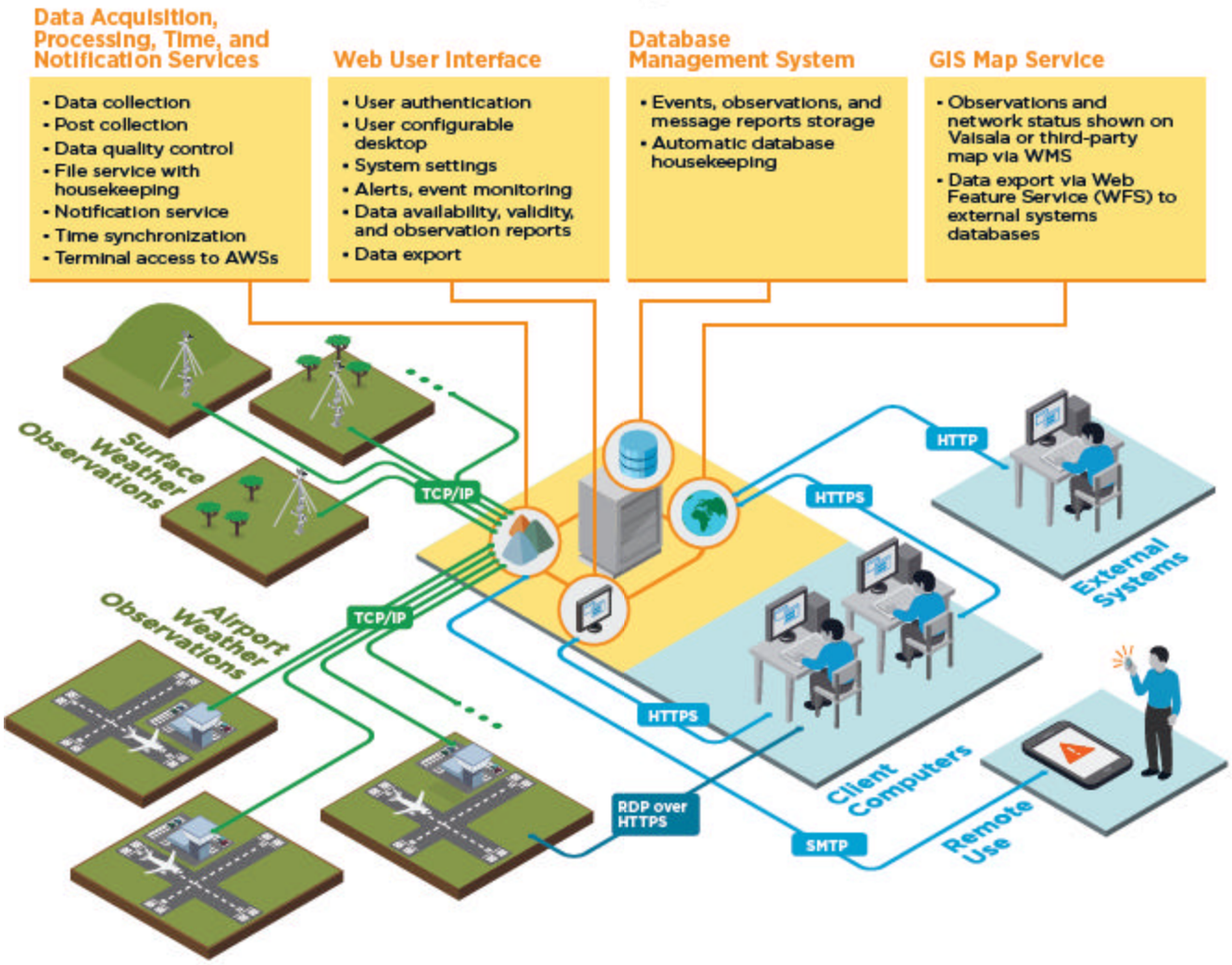
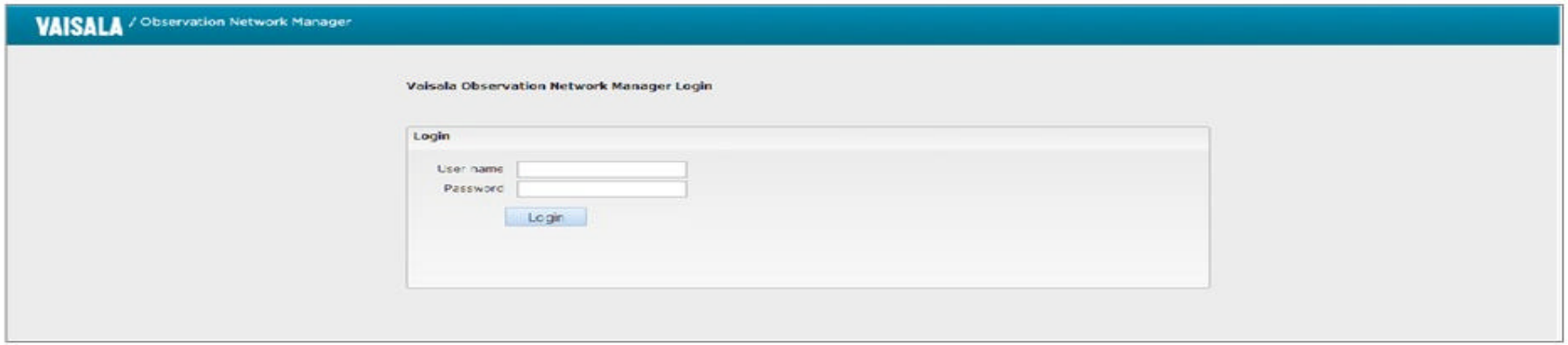
Vaisala Observation Network Manager NM10

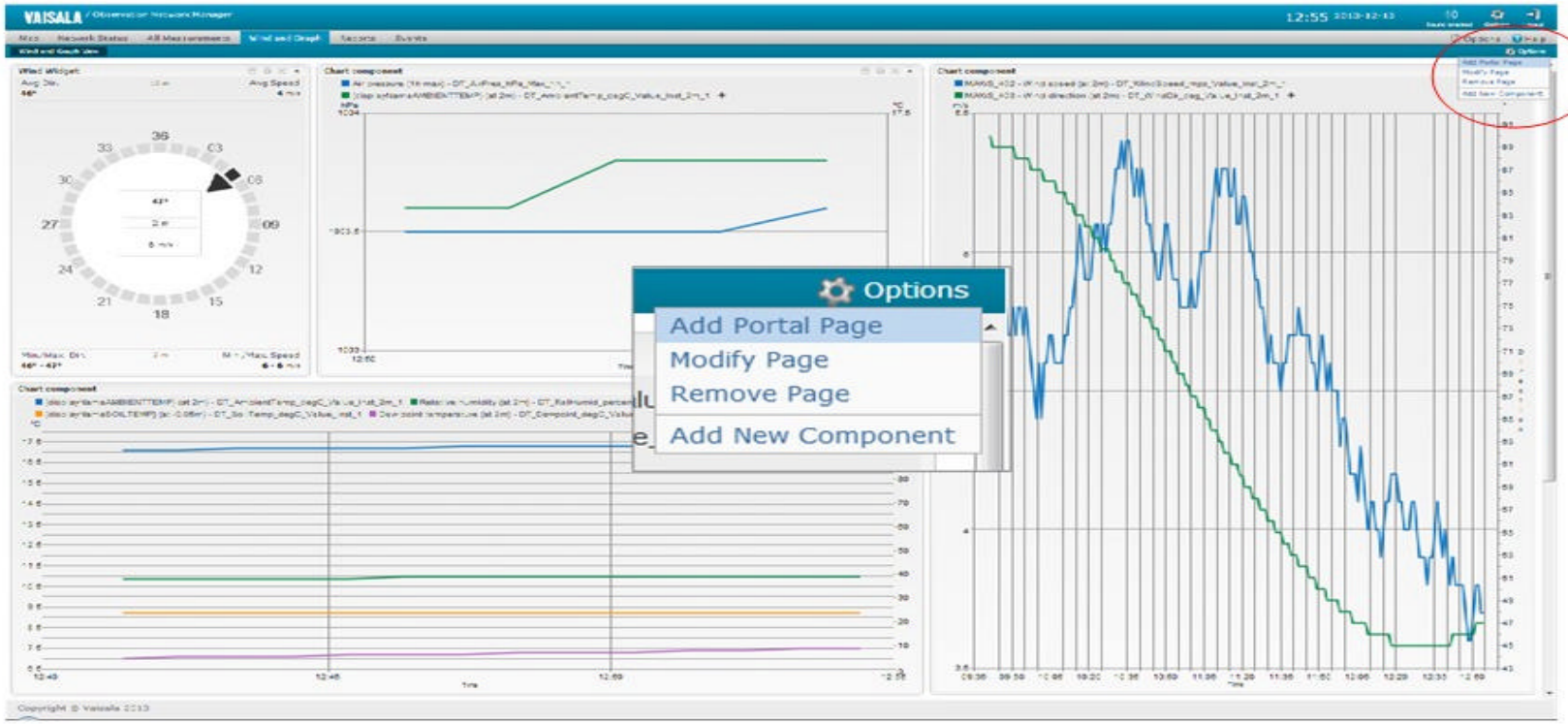


Authentication Service

- Basic access authentication provided using HTTPS
- Access to the system restricted by username and password
- When the web client user logs out from the system the changes made are saved and they will be available the next time the user logs in

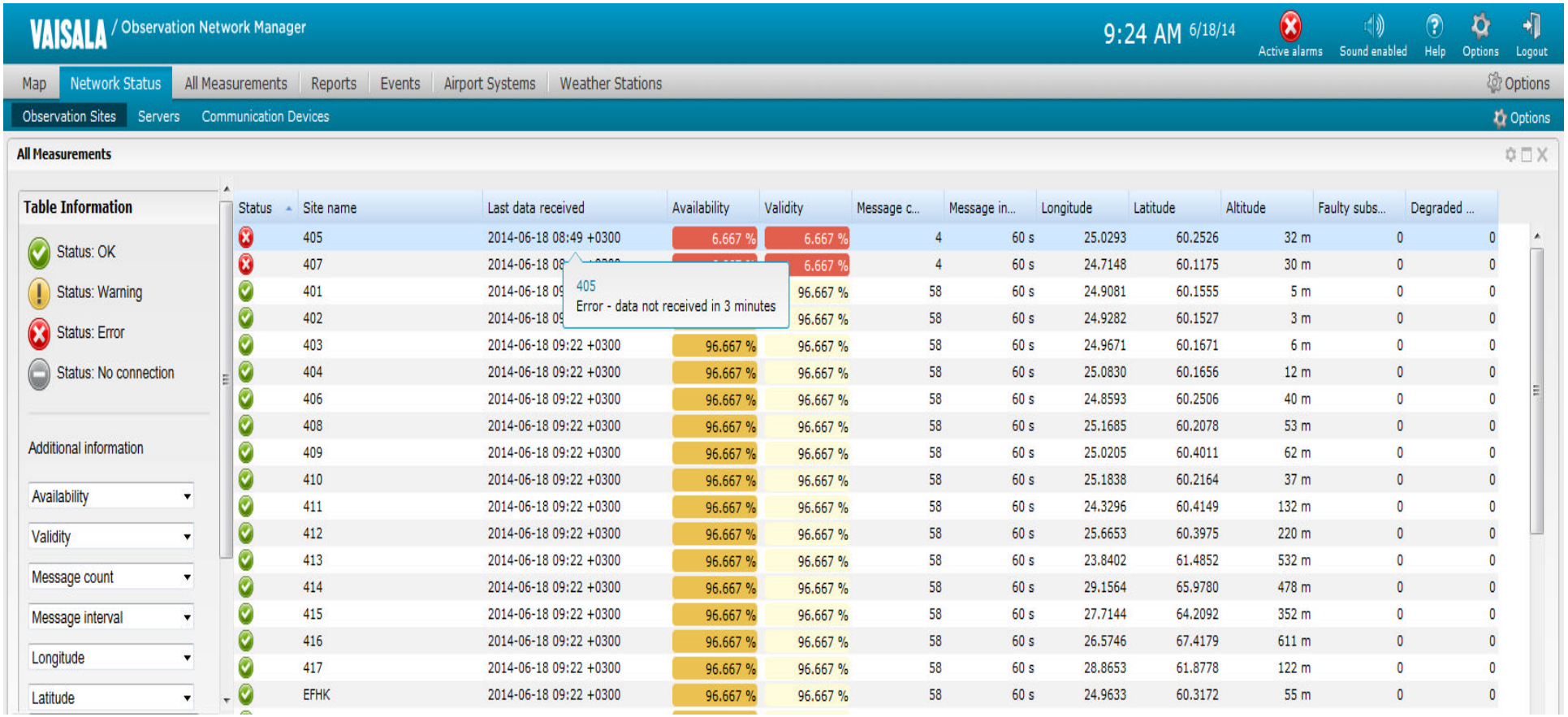


WebUI / Desktop Configuration Service



- Supported web browsers Microsoft Internet Explorer (v. 9 or later), Mozilla Firefox (v. 25 or later) and Google Chrome (v. 31 or later).

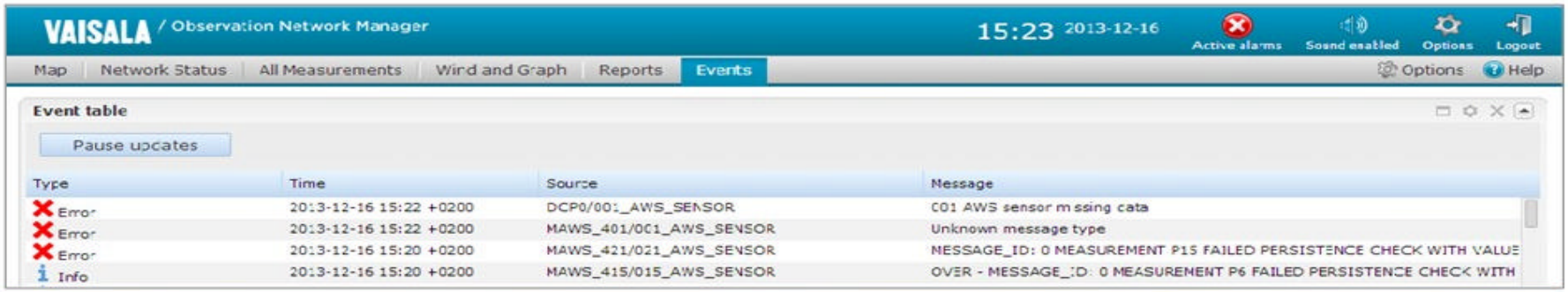
Network Status List View



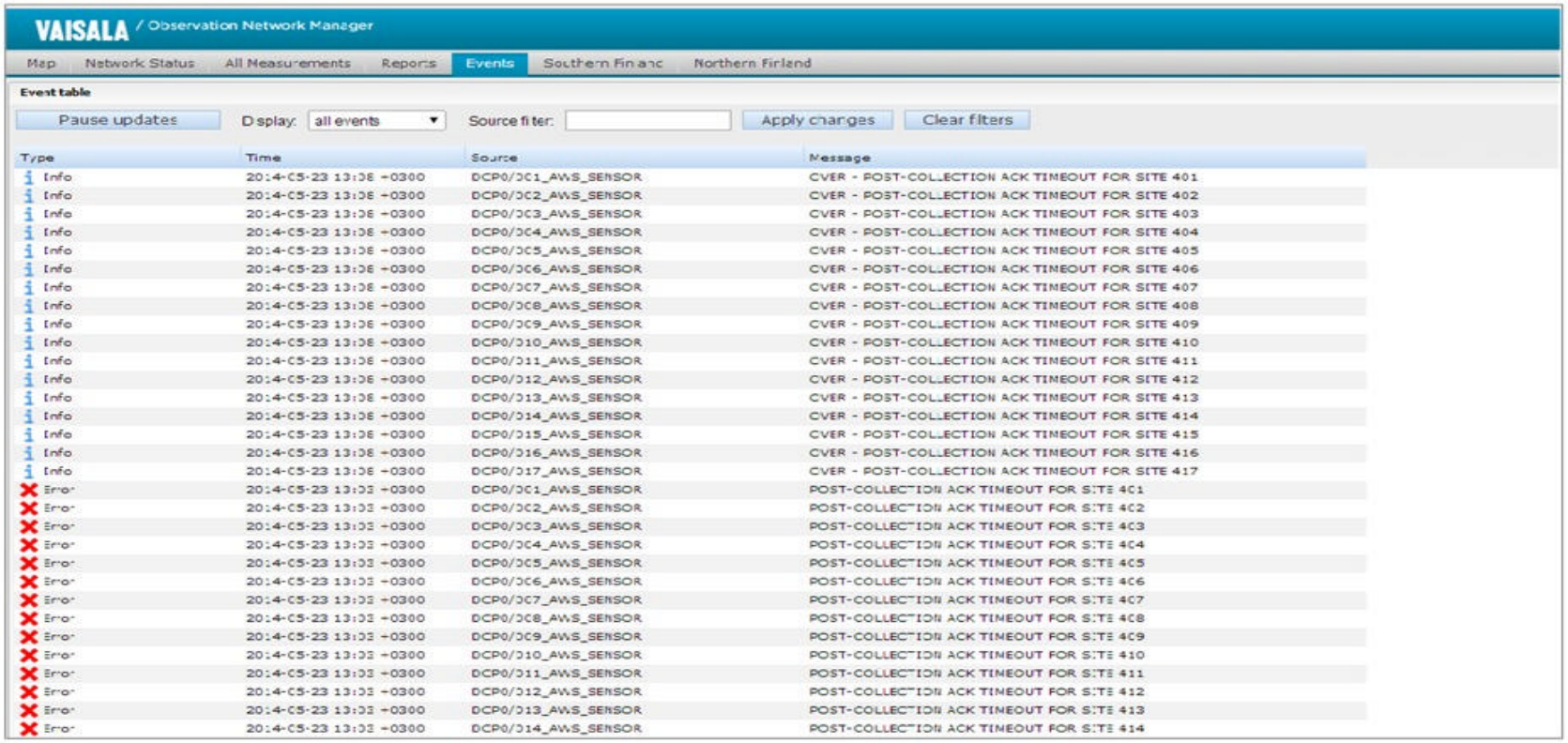
Status	Site name	Last data received	Availability	Validity	Message c...	Message in...	Longitude	Latitude	Altitude	Faulty subs...	Degraded ...
	405	2014-06-18 08:49 +0300	6.667 %	6.667 %	4	60 s	25.0293	60.2526	32 m	0	0
	407	2014-06-18 08		6.667 %	4	60 s	24.7148	60.1175	30 m	0	0
	401	2014-06-18 09		96.667 %	58	60 s	24.9081	60.1555	5 m	0	0
	402	2014-06-18 09		96.667 %	58	60 s	24.9282	60.1527	3 m	0	0
	403	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	24.9671	60.1671	6 m	0	0
	404	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	25.0830	60.1656	12 m	0	0
	406	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	24.8593	60.2506	40 m	0	0
	408	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	25.1685	60.2078	53 m	0	0
	409	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	25.0205	60.4011	62 m	0	0
	410	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	25.1838	60.2164	37 m	0	0
	411	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	24.3296	60.4149	132 m	0	0
	412	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	25.6653	60.3975	220 m	0	0
	413	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	23.8402	61.4852	532 m	0	0
	414	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	29.1564	65.9780	478 m	0	0
	415	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	27.7144	64.2092	352 m	0	0
	416	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	26.5746	67.4179	611 m	0	0
	417	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	28.8653	61.8778	122 m	0	0
	EFHK	2014-06-18 09:22 +0300	96.667 %	96.667 %	58	60 s	24.9633	60.3172	55 m	0	0

Alarms/Events Generation

- Error and info events generated by the system regarding
  - Data quality control service status
  - Database inserter and reader service status
  - Data collection/post-collection service status
  - Communication device (Sensor IO) service status
  - Server hardware status
  - Observations and events (ASCII) file log service status
  - Message parser service status



Events List View



Minimum System Hw Requirements*

- **Processor** — 2.0+ GHz, 4-core CPU or higher
- **RAM** — 8GB or higher (without GIS map)
  16GB or higher (with GIS map)
- **Hard drive** — 300GB or higher (with standard GIS map)
  1TB or higher (with enhanced GIS map)
- **Operating system** — Microsoft Windows Server 2008 R2
- **Ethernet** — 10/100/1000MB
- **Other peripherals** — DVD RW drive, keyboard, mouse
- **Monitor resolution** — 1366 x 768 or higher

*Exact system requirements for computer hardware is dependent on number and type of observation sites connected, amount of data collected, data acquisition interval(s), data storage time, maximum number of concurrent web clients connected and features selected by the customer.