

Cabinet Health Monitoring



INTEGRATOR-AI



TRAFFIC
APPLICATIONS



ITS
APPLICATIONS



PARKING
APPLICATIONS



Device Health Monitoring

- Operational State Monitor
- Monitor using ICMP
- Monitor using HTTP
- Monitor using SNMP
- Fault detection
- Resolve operational state
- User configurable monitors
- Networked device agnostic
- Device Health Alerts
- Up-time



Dispatcher (Real Time Alerts)

- Email Alerts
- Http: Alerts
- Text Alerts



Subsystem (Analytics)

- Object (all classes the sensor provides)
- ITS (TSS Analytics)
- Signal Performance Metrics
- Pedestrian Analytics
- Bicycle Analytics
- Vehicle Analytics



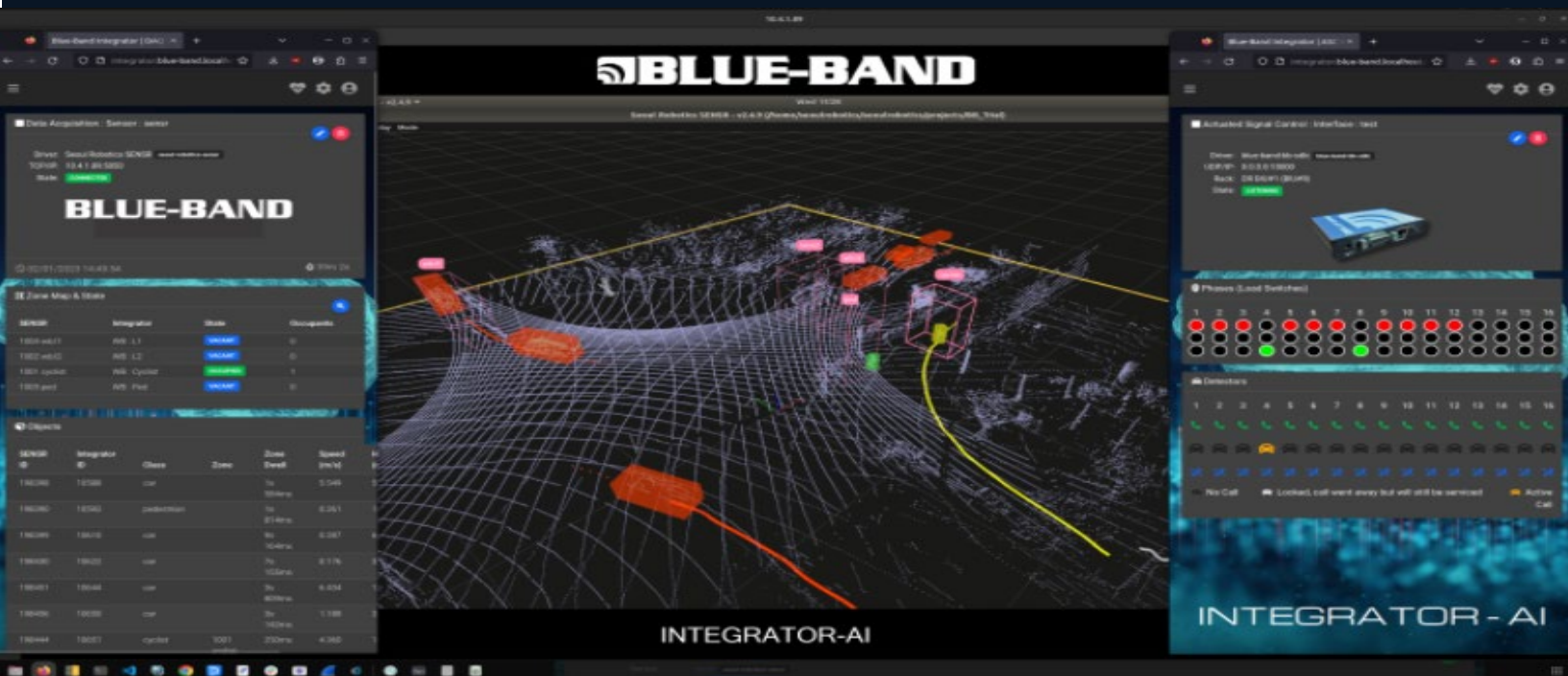
Peripherals (Outputs to Infrastructure)

- SDLC
- NTCIP (traffic signal controller interface)
- CV2X (RSU Interface)
- Wireless Contact Closure
- I/O (PLC, SCADA Functionality)
- DMS/VMS (Read/Write Over NTCIP)



Broker Integrations to 3rd Party Systems

- HTTP:
- JSON
- XML
- TCP
- UDP



Cabinet networked Devices Health Monitor

BLUE-BAND Dashboard Peripherals Sub-Systems Brokers Wiring Zones

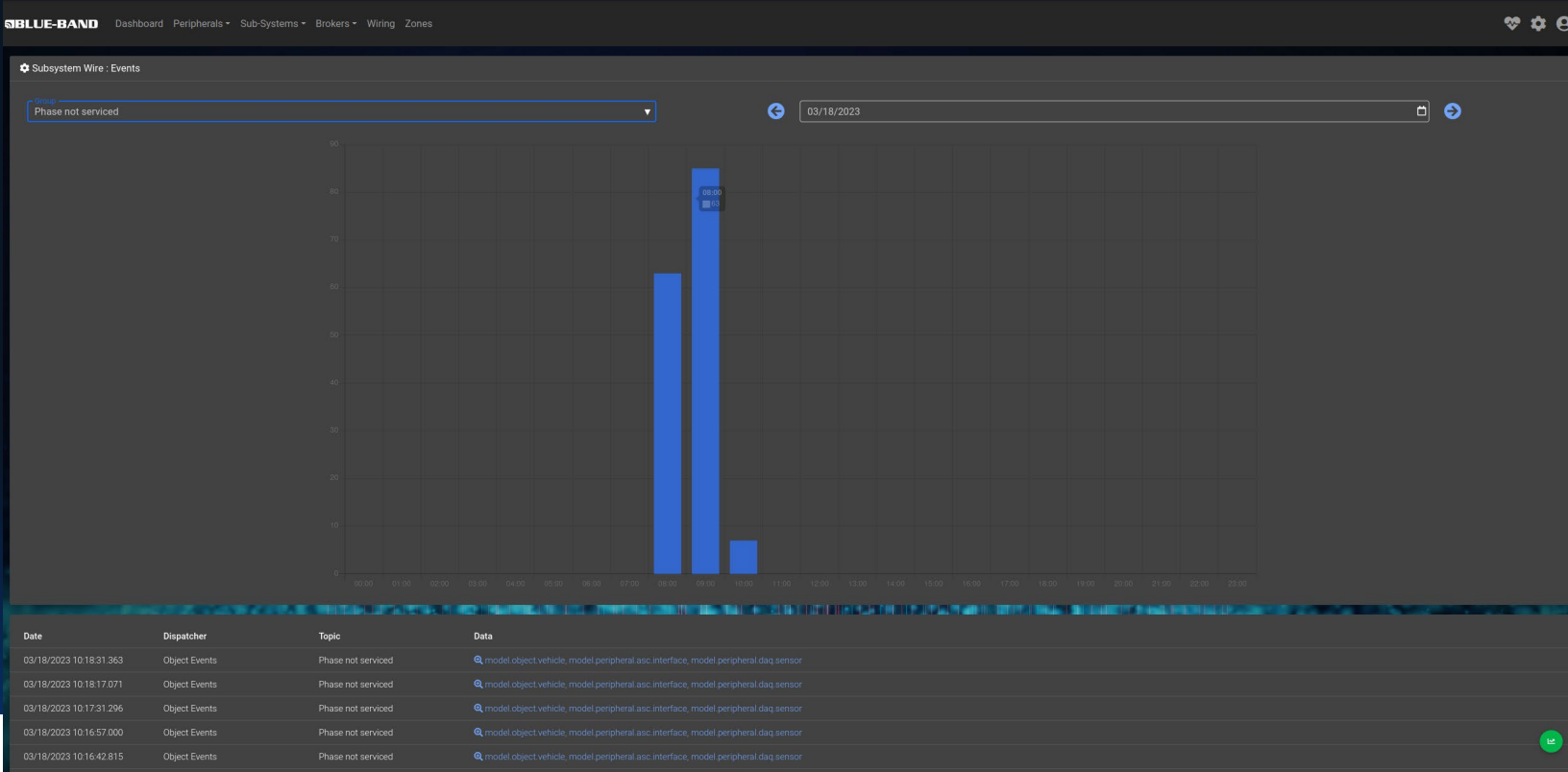
Subsystem Health : Peripherals

03/18/2023

Peripheral	Type	Final State	Operational	Faults	Inoperative
BIU#1	Actuated Signal Control Interface blue-band-bb-sdc	OPERATIONAL	100.00% (1 times)	0.00% (0 times)	0.00% (0 times)
SENSR	Data Acquisition Sensor seoul-robotics-sensr	OPERATIONAL	28.00% (1 times)	0.00% (0 times)	72.00% (1 times)
sign1	Dynamic Message Sign Display ntap-1203	OPERATIONAL	100.00% (1 times)	0.00% (0 times)	0.00% (0 times)
Object Events	Service Dispatcher	N/A	N/A	N/A	N/A
System Status	Service Dispatcher	N/A	N/A	N/A	N/A
LIDAR 2	Data Acquisition Sensor health-monitor	OPERATIONAL	100.00% (1 times)	0.00% (0 times)	0.00% (0 times)
LIDAR 1	Data Acquisition Sensor health-monitor	OPERATIONAL	28.07% (1 times)	0.00% (0 times)	71.93% (1 times)
GMAIL	Service Dispatcher smtp	N/A	N/A	N/A	N/A
SX300	Data Acquisition Sensor iss-ss300-ip	INOPERATIVE	0.00% (0 times)	0.00% (0 times)	100.00% (1 times)
ALB	Data Acquisition Sensor outright-alb	INOPERATIVE	0.00% (0 times)	0.00% (0 times)	100.00% (1 times)

Date	Peripheral	Type	State
03/18/2023 08:07:45.935	SENSR	Data Acquisition Sensor seoul-robotics-sensr	OPERATIONAL
03/18/2023 08:07:15.927	LIDAR 1	Data Acquisition Sensor health-monitor	OPERATIONAL
03/18/2023 08:04:15.872	ALB	Data Acquisition Sensor outright-alb	INOPERATIVE
03/18/2023 08:04:15.871	SX300	Data Acquisition Sensor iss-ss300-ip	INOPERATIVE
03/18/2023 08:04:15.871	LIDAR 2	Data Acquisition Sensor health-monitor	OPERATIONAL
03/18/2023 08:04:15.870	LIDAR 1	Data Acquisition Sensor health-monitor	INOPERATIVE
03/18/2023 08:04:15.869	sign1	Dynamic Message Sign Display ntap-1203	OPERATIONAL
03/18/2023 08:04:15.869	SENSR	Data Acquisition Sensor seoul-robotics-sensr	INOPERATIVE
03/18/2023 08:04:15.869	BIU#1	Actuated Signal Control Interface blue-band-bb-sdc	OPERATIONAL

Subsystem (Health Monitoring Analytics)



Dispatch Driver (Email)

Service : Dispatcher : GMAIL

Driver: smtp smtp
 Host: smtp.gmail.com:587
 From: noreply@blue-band.net
 To: justink@blue-band.net
 Cc:
 Bcc:
 State: **READY**

Chat

```

03/18/2023 10:18:49.813 MESSAGE all messages sent
03/18/2023 10:18:49.813 MESSAGE sent "Phase not serviced"
03/18/2023 10:18:49.841 MESSAGE 235 2.7.0 Accepted
03/18/2023 10:18:48.859 MESSAGE 334 UGfc3dvcm00
03/18/2023 10:18:48.824 MESSAGE 334 VXiLcw5hM0u0
03/18/2023 10:18:48.788 MESSAGE AUTH LOGIN
03/18/2023 10:18:48.788 MESSAGE 250 smtp.gmail.com at your service
03/18/2023 10:18:48.722 MESSAGE HELO blue-band.net
03/18/2023 10:18:48.688 MESSAGE 220 2.0.0 Ready to start TLS
03/18/2023 10:18:48.655 MESSAGE STARTTLS
03/18/2023 10:18:48.655 MESSAGE 250 smtp.gmail.com at your service
03/18/2023 10:18:48.618 MESSAGE HELO blue-band.net
03/18/2023 10:18:48.618 MESSAGE 220 smtp.gmail.com ESMTP c193-2002ba1fccc0000000041193b0bf65n750836vc:8 - gsmtp
03/18/2023 10:18:48.559 MESSAGE connected to 74.725.31.108
03/18/2023 10:18:48.529 MESSAGE ALL messages sent
03/18/2023 10:18:48.529 MESSAGE sent "Phase not serviced"
03/18/2023 10:18:47.840 MESSAGE 235 2.7.0 Accepted
03/18/2023 10:18:47.454 MESSAGE 334 UGfc3dvcm00
03/18/2023 10:18:47.422 MESSAGE 334 VXiLcw5hM0u0
03/18/2023 10:18:47.394 MESSAGE AUTH LOGIN
  
```

Events

```

03/18/2023 10:18:51.363 EMAIL SUBJECT:Phase not serviced
03/18/2023 10:18:17.872 EMAIL SUBJECT:Phase not serviced
03/17/2023 18:04:00.231 EMAIL SUBJECT:Phase not serviced
03/17/2023 18:03:01.989 EMAIL SUBJECT:Phase not serviced
03/17/2023 18:02:25.972 EMAIL SUBJECT:Phase not serviced
03/17/2023 17:18:40.641 EMAIL SUBJECT:Phase not serviced
03/17/2023 17:15:17.697 EMAIL SUBJECT:Phase not serviced
03/17/2023 17:10:35.129 EMAIL SUBJECT:Phase not serviced
03/17/2023 17:07:50.845 EMAIL SUBJECT:Phase not serviced
03/17/2023 15:23:44.894 EMAIL SUBJECT:Phase not serviced
03/17/2023 14:06:04.818 EMAIL SUBJECT:BIU#1 is down
03/17/2023 14:04:23.391 EMAIL SUBJECT:BIU#1 is down
03/17/2023 14:04:21.292 EMAIL SUBJECT:BIU#1 is up
03/17/2023 14:03:14.488 EMAIL SUBJECT:BIU#1 is down
03/17/2023 14:00:46.826 EMAIL SUBJECT:BIU#1 is up
03/17/2023 14:00:39.865 EMAIL SUBJECT:BIU#1 is down
03/17/2023 13:59:38.840 EMAIL SUBJECT:BIU#1 is down
03/17/2023 13:47:24.919 EMAIL SUBJECT:BIU#1 is up
03/17/2023 13:47:22.220 EMAIL SUBJECT:BIU#1 is down
03/17/2023 13:46:28.814 EMAIL SUBJECT:BIU#1 is down
  
```

INTEGRATOR - AI Email Alert 1

Phase not serviced [View](#)

justink@blue-band.net
to me

Integrator

Name	004F0EFD000000
Location	Lib
Serial	00FE0E000000

Integrator and Location Info

Object : Vehicle

ID	360
Type	Vehicle
CLASSIFICATION	car
Length	5.8
Height	4.8
Speed	8 mph
Lifespan	2s 120s

Perception Software Vehicle Info Status

Lidar Point Cloud Data Incomplete Only Half The Car Is Being Seen Length 5ft

Actuated Signal Control : Interface

Name	BIU#1
Driver	blue-band-00-00c
Operatn	OPERATIONAL (In 23s)
Flash	NO

Interface To The Traffic Signal Operational Status

Email Alert 2

Detectors

Channel	Internal	Duration	External	Duration
1	CALL	2s 12ms	CLEAR	4m 21s
2	CALL	7s 43ms	CLEAR	4m 21s
3	CLEAR	1s 712ms	CLEAR	4m 21s
4	CLEAR	20s 629ms	CLEAR	4m 21s
5	CLEAR	19s 620ms	CLEAR	4m 21s
6	CLEAR	4m 21s	CLEAR	4m 21s
7	CLEAR	4m 21s	CLEAR	4m 21s
8	CLEAR	4m 21s	CLEAR	4m 21s
9	CLEAR	4m 21s	CLEAR	4m 21s
10	CLEAR	4m 21s	CLEAR	4m 21s
11	CLEAR	4m 21s	CLEAR	4m 21s
12	CLEAR	4m 21s	CLEAR	4m 21s
13	CLEAR	4m 21s	CLEAR	4m 21s
14	CLEAR	4m 21s	CLEAR	4m 21s
15	CLEAR	4m 21s	CLEAR	4m 21s
16	CLEAR	4m 21s	CLEAR	4m 21s

Data Acquisition : Sensor

Name	SEMSR
Driver	seoul-robotics-sens
Operstate	OPERATIONAL (4m 21s)

Dwell Time And Channel Output Status Alert Email

Perception Software Health Alert Email

Data Acquisition : Sensor

Name	LDAR1
Driver	health-monitor
Operstate	OPERATIONAL (4m 21s)

Lidar Health Alert Email

Reply Forward

Email Alert 3

The screenshot displays two data tables. The top table, titled 'Phases', has columns for 'No', 'ID', 'Name', and 'Status'. The bottom table, titled 'Detectors', has columns for 'Name', 'Email', 'Status', 'Date', 'Time', 'Phase', and 'Status'. Two red arrows originate from a row in the 'Phases' table and point to a row in the 'Detectors' table, illustrating the relationship between the two data sets.

Phase and detection dwell alert emails can notify you when a phase is not being serviced.

Single Email (All Alerts)

The screenshot shows a comprehensive monitoring dashboard. It includes sections for 'Integration', 'Object: Vehicle', 'Zones', 'Activated Signal Control: Interface', 'Phases', 'Detectors', 'Data Acquisition: Sensor', and another 'Data Acquisition: Sensor' section. Each section contains detailed data and configuration options.



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