Communications Network

Detector Configuration

Controller type changes
Controller IP changes

Detector assignment changes
Convention

Central System Admin

Field Technicians
Engineers

Maintaining Signal Performance Metrics

Daily report of system health
Review and correct

Controller database
Detector status
Database change alarms

SPM Technician / SPM Admin

Signal Systems Staff
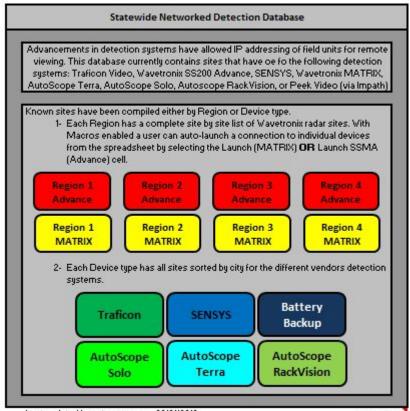
SPM Watchdog Emails

Central Signal System

Click 650 Assignments

	A	B	C	D	E	F
1	Address:					
2	SIG#					
3	City:					
4	Date:					
5						
6	Det #	Ø assign	Note	Det #	Ø assign	Note
7			BIU 9			BIU 11
8	1			33		
9	2			34		
10	3			35		
11	4			36		
12	5			37		
13	6			38		
14	7			39		
15	8			40		
16	9			41		
17	10			42		
18	11			43		
19	12			44		
20	13			45		
21	14			46		
22	15			47		
23	16			48		
24			BIU 10			BIU 12
25	17			49		
26	18			50		
27	19			51		
28	20			52		
29	21			53		
30	22			54		
31	23			55		
32	24			56		
33	25			57		
34	26			58		
35	27			59		
36	28			60		
37	29			61		
38	30			62		
39	31			63		
40	32			64		

Lane by Lane Detection Setup

1. Create some sort of information trail unique to the intersections to document how the detectors were configured.
2. Beneficial for field technicians as well as SPM configuration troubleshooting.

Statewide Networked Detection Database

Advancements in detection systems have allowed IP addressing of field units for remote viewing. This database currently contains sites that have oe fo the following detection systems: Traficon Video, Wavetronix SS200 Advance, SENSYS, Wavetronix MATRIX, AutoScope Terra, AutoScope Solo, Autoscope RackVision, or Peek Video (via Impath)

Known sites have been compiled either by Region or Device type.
  1- Each Region has a complete site by site list of Wavetronix radar sites. With Macros enabled a user can auto-launch a connection to individual devices from the spreadsheet by selecting the Launch (MATRIX) **OR** Launch SSMA (Advance) cell.

Region 1 Advance | Region 2 Advance | Region 3 Advance | Region 4 Advance

Region 1 MATRIX | Region 2 MATRIX | Region 3 MATRIX | Region 4 MATRIX

  2- Each Device type has all sites sorted by city for the different vendors detection systems.

Traficon | SENSYS | Battery Backup

AutoScope Solo | AutoScope Terra | AutoScope RackVision

Last updated by sstevenson on 22/01/2016   (Ver. 21) 2015-04

SS-200 Sites Summary					
	R1	R2	R3	R4	Total
Total Approaches	452	588	287	108	1435
Total Comm Appr	405	560	251	57	1273
% Appr Comm	**90%**	**95%**	**87%**	**53%**	**89%**
Total Sites	224	276	143	56	699
Total Sites Comm	202	265	124	30	621
% Sites Comm	**90%**	**96%**	**87%**	**54%**	**89%**

MATRIX Sites Summary					
	R1	R2	R3	R4	Total
Total Approaches	393	870	709	181	2153
Total Comm Appr	344	839	638	140	1961
% Appr Comm	**88%**	**96%**	**90%**	**77%**	**91%**
Total Sites	133	300	220	55	708
Total Sites Comm	118	292	198	40	648
% Sites Comm	**89%**	**97%**	**90%**	**73%**	**92%**

MATRIX Detection - Region 1

TOC	SIG #	Controller	Primary	Secondary	City	CH	Device	IP	Port	Device ID	Unit	Launch	Serial Number		Version	Comments
Jun-13	5000	ASC/3	Riverdale Rd.	700 W	Riverdale	1100-1	Access Device	0.0.0.0	2101	4981	NB	Launch	SS225 U100004981	Upgrade	2.0.0	
Jun-13	5000	ASC/3	Riverdale Rd.	700 W	Riverdale	1100-1	Access Device	0.0.0.0	2101	4982	SB	Launch	SS225 U100004982	Upgrade	2.0.0	
Nov-14	5002	ASC/3	Riverdale Rd (SR-26)	1050 W (SR-60)	Riverdale	1100-3	Access Device	0.0.0.0	2101	8204	NB	Launch	SS225 U100008204	Upgrade	2.0.0	
Nov-14	5002	ASC/3	Riverdale Rd (SR-26)	1050 W (SR-60)	Riverdale	1100-3	Access Device	0.0.0.0	2101	6505	EB	Launch	SS225 U100006505	Upgrade	2.0.0	
Apr-12	5004	ASC/3	Riverdale Rd	1500 W.	Riverdale	1100-7	Access Device	0.0.0.0	10001	9411	NB	Launch	SS225 U100009411	Upgrade	2.0.0	Click 650! + RLM
Apr-12	5004	ASC/3	Riverdale Rd	1500 W.	Riverdale	1100-7	Access Device	0.0.0.0	10001	9419	SB	Launch	SS225 U100009419	Upgrade	2.0.0	Click 650! + RLM

No SPM Data
PCD shows no data

Wall 36th Signal 5006 Phase: 2 Northbound
Friday, November 27, 2015 12:00 AM - Friday, November 27, 2015 11:59 PM

Wall 36th Signal 5006 Phase: 6 Southbound
Friday, November 27, 2015 12:00 AM - Friday, November 27, 2015 11:59 PM

Metric Type
- Approach Delay
- Approach Volume
- Arrivals On Red
- Purdue Coordination Diagram
- Purdue Split Failure
- Pedestrian Delay
- Preemption Details
- ◉ Purdue Phase Termination
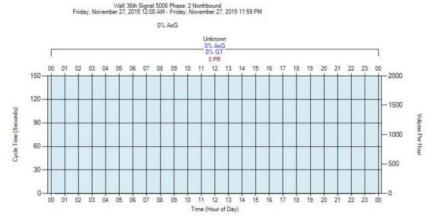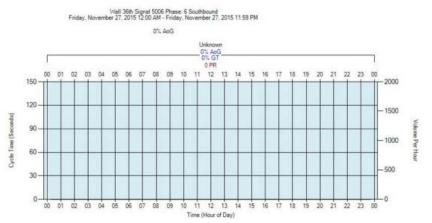- Speed
- Split Monitor
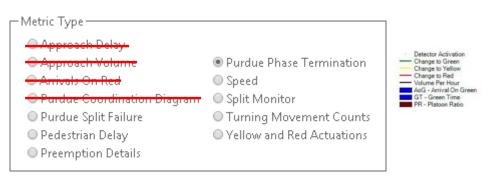- Turning Movement Counts
- Yellow and Red Actuations

1. Check **communication** to the signal
2. Check IP address in the SPM Configuration Tool matches the controller IP
3. Check that the controller clock is accurate
4. ASC-3 Controller MM 9-3-1, SpFNC*3
   i.   Check that "Voit Trace Enabled" = No
   ii. Check that the Database State = All Saved
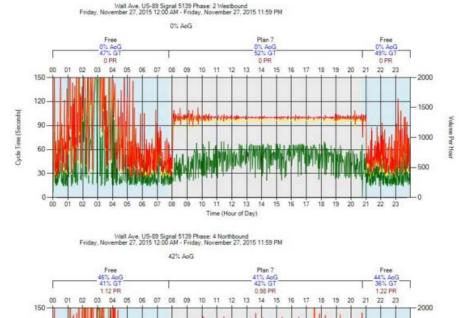5. Verify that the High Resolution Data is getting to the SPM database.

No PCD Detector Data
PCD shows only phase data

1. Check that the correct detector channel is set in the SPM Configuration Tool.
    i. If not, change the channel in the SPM Configuration Tool to match the controller. Recommend that a comment is made to note the date and previous channel.
2. Check that ECPI log is enabled for the detector channel.
3. Check that the counts are being communicated to the controller by monitoring the detector channels
    i. Open the sensor software and check that the detector is working correctly.