

NEMSiS 2012-2013 Progress

**National Association of State
Officials
2013 Annual Meeting
Data Managers Council Meeting**

September 17th, 2013

What we will cover

- Show me the States!?
- Progress with Reporting
- V3 Revisions
- HL7 Headway
- Review of 2013 Objectives
- Discuss as we go!



Moving to NEMSIS



Current Composition of NEMSiS Warehouse

Data warehouse last updated on: 9/13/2013

States:	2011				2012				2013			Total
	1	2	3	4	1	2	3	4	1	2	3	
Alabama	103,655	110,448	109,516	117,394	127,411	135,948	136,460	134,206	130,952	139,606	107,368	1,352,964
Alaska	7,165	7,299	5,619	5,463	8,278	5,980	6,717	4,501	5,431	5,477		61,930
Arizona					10,005	12,161	16,846	20,665	26,945	43,173		129,795
Arkansas	79,760	84,961	77,559	74,697	97,100	94,100	97,886	91,579	92,118	89,926		879,686
California	19,774											19,774
Colorado	68,732	84,912	71,586	67,299	71,423	131,118	126,493	106,851	96,982	110,148		935,544
Connecticut					149,306	102,682	154,973	143,244	144,013	142,131	41,201	877,550
Florida	444,265	436,327	439,203	460,613	530,953	560,764	609,638	662,397	674,415	421,302		5,239,877
Georgia	213,868	228,823	243,341	240,094	295,063	302,751	300,335	295,916	343,090			2,463,281
Hawaii	28,438	27,292	26,909	28,595	29,720	29,413	29,452	30,303	31,703	30,397		292,222
Idaho	21,860	16,831	22,240	17,074	29,874	27,554	32,514	29,277	29,664	30,194		257,082
Illinois	48,305	75,293	92,624	96,017	112,069	112,496	114,387	105,170	91,459			847,820
Iowa	42,810	40,602	42,956	47,519	48,310	50,576	50,144	47,621	47,233	38,896		456,667
Kansas	15,109	15,864	16,136	17,339	24,421	27,084	28,345	27,403	27,800	28,293		227,794
Kentucky					7,091	7,422	7,658	6,854	8,945	9,918		47,888
Maine	56,540	56,490	59,885	54,477	57,250	58,881	68,479	66,185	62,357	62,564		603,108
Maryland					48,723	79,772	89,893	101,490	114,638	124,438		558,954
Michigan	252,649	218,174	257,121	246,389	252,793	251,600	284,442	244,890	295,373	287,950	703	2,592,084
Minnesota	114,927	114,656	124,302	118,613	119,709	122,638	129,260	126,860				970,965
Mississippi	53,496	53,987	91,105	71,592	72,940	88,502	93,838	92,217	99,712	93,632		811,021
Missouri	65,729	69,298	57,391	95,417	90,961	111,298	115,586	116,245				721,925
Nebraska	19,877	28,852	30,962	31,246	25,022	30,837	31,824	32,380	31,735	34,614		297,349
Nevada	22,737	17,776	14,257	35,509	25,145	27,601	41,957	21,757	27,904	17,695		252,338
New Hampshire	45,788	45,889	46,599	45,734	45,470	42,767	45,816	44,578	44,507	43,910		451,058
New Jersey	256,642	262,026	277,180	276,750	287,564	298,271	304,346	310,945	311,929	302,596		2,888,249
New Mexico	70,668	72,412	65,693	75,433	73,781	82,053	79,060	80,742	73,351	82,082		755,275
New York				189,977	175,590	135,782	201,942	273,005	286,134	280,818	651	1,543,899
North Carolina	364,173	380,078	384,595	379,865	391,700	401,825	410,608	411,065	401,208	415,293		3,940,410
North Dakota	12,005	12,681	14,130	15,070	15,195	15,474	16,635	16,442	16,932	13,222		147,786
Northern Mariana	580	547	579			603	910	943	892	954		6,008
Oklahoma	98,652	83,039	104,423	103,929	110,834	117,213	118,240	116,252	114,595	117,842		1,085,019
Oregon					4,006	4,676	7,980	6,424	39,082	42,255		104,423
Pennsylvania	164,667	187,277	311,728	375,043	401,489	411,242	436,494	429,601	446,458	443,644	140,121	3,747,764
South Carolina	285,648	287,408	291,085	285,597	292,354	300,553	304,665	307,359	299,081	315,909		2,969,659
South Dakota	10,029	10,457	11,473	10,195	10,484	11,010	11,929	10,745	13,121	12,010		111,453
Tennessee	22,063	48,095	57,332	63,775	61,236	40,302	66,493	56,913	59,494	52,827	29,032	557,562
Utah	50,175	51,370	51,162	50,409	52,046	54,651	58,946	54,824	51,894	36,289	28,589	540,355
Virgin Islands	1,863	1,429	1,613	1,832	1,847	1,798	1,591	1,777	1,813	1,691		17,254
Virginia	176,789	185,714	215,946	228,478	240,769	248,504	244,562	240,849	261,777	274,821	101,413	2,419,622
Washington	21,607	19,844	21,972	20,473	16,064	24,331	31,976	29,895	31,367	74,419		291,948
West Virginia	119,301	121,263	118,816	116,041	117,861	122,101	120,875	121,620	123,506	118,762		1,200,146
Wisconsin					133,664	134,901	138,511	134,834	129,700			671,610
Wyoming	6,632	6,620	7,848	7,138	10,358	10,560	11,235	10,260	10,365	10,820		91,836
Total	3,386,978	3,464,034	3,764,886	4,071,086	4,675,879	4,829,795	5,179,941	5,167,084	5,099,675	4,350,518	449,078	44,438,954

Current Composition of NEMSIS Warehouse


EMS Data Cube

View | Design



NEMSIS Enhanced

- Barriers To Patient Care
- Cardiac Arrest Elements
- Condition Codes
- Dispatch Delay
- EMS Call Date
 - ☒ Year - Quarter - Month - Day

Year - Quarter - Month - Day	Count of Events
All	44,441,483
Calendar 2011	14,687,434
Calendar 2012	19,853,017
Calendar 2013	9,901,032

Current Composition of NEMSIS Warehouse

NEMSIS TECHNICAL ASSISTANCE CENTER **EMS Data Cube**

View | Design

Drop Filter Fields Here

Delete

Count of Events

Year - Quarter - Month - Day

Count of Events

Year - Quarter - Month - Day	Count of Events
All	46,298,844
Calendar 2009	6,337,436
Calendar 2010	10,006,384
Calendar 2011	14,989,631
Calendar 2012	14,823,897
Calendar 2013	141,496

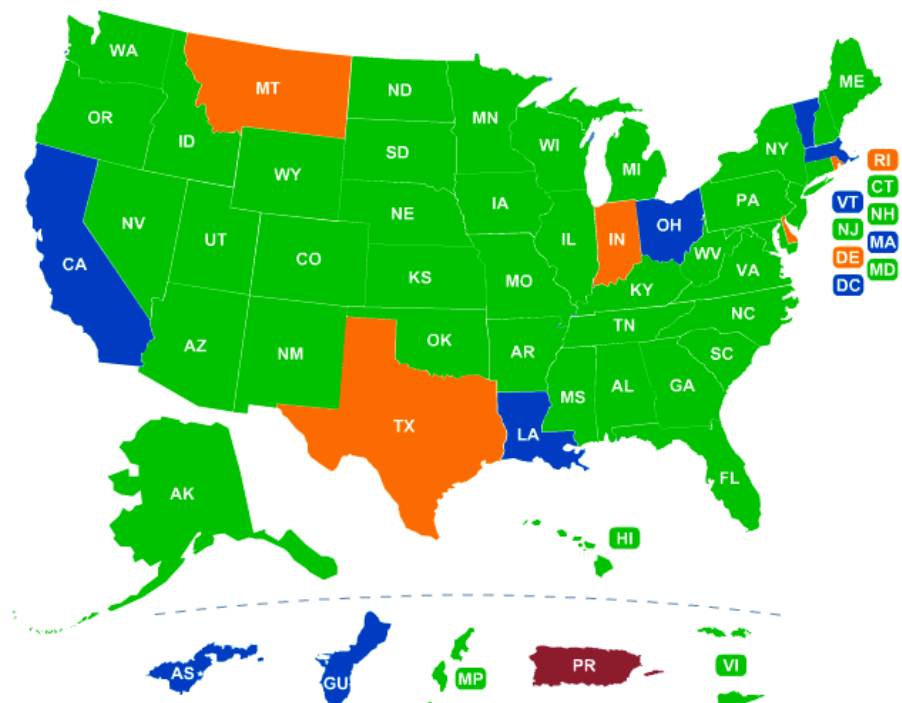
NEMSIS Enhanced

- Measures
 - Event Measures
 - Events
 - Count of Events
 - Average EMS T
 - Medication Measures
 - Procedure Measures
 - Alcohol Drug Indicators
 - Barriers To Patient Care

States Currently Submitting

State & Territory Version 2 Information

- | | |
|--|---|
| ■ Submitting data to NEMSIS | ■ Addressing barriers to NEMSIS |
| ■ Actively working with NEMSIS TAC | ■ Limited progress with NEMSIS |



New States for 2013

New States submitting Data during the year 2013 (for 2012 data)

	States Newly REPORTING	Month/Year of Initial Submission	Date of first record in Dataset
39	Kentucky	June 2013	1-1-2012
40	Arizona	June 2013	1-1-2012
41	Wisconsin	June 2013	1-1-2012
42	Connecticut	June 2013	1-1-2012

States that have still not successfully exported data in the NEMSIS v2.2.1 National Only EMSDataSet format:

	State	Month/Year of Testing Export	Date of first record expected
43	Guam	Trying: August & /September 2013	For 1-1-2013 data
44	Indiana	Trying: August & September 2013	For 1-1-2013 data

NEMSIS 2012 Research Dataset



National EMS Database NEMSIS Research Data Set v. 2.2.1

2012 User Manual

August 2013

NEMSIS Technical Assistance Center
University of Utah School of Medicine
295 Chipeta Way, P.O. Box 581289
Salt Lake City, Utah 84158-1289
www.nemsis.org

ACKNOWLEDGEMENT

The Office of Emergency Medical Services, National Highway Traffic Safety Administration (NHTSA) established the NEMSIS Data Set as a public service to be a repository of EMS related data voluntarily reported by participating EMS agencies and states. The National Highway Traffic Safety Administration collects and maintains the NEMSIS Database.

NEMSIS TAC Steering Committee Members

Jeff Beeson, DO
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Kevin Creek, Paramedic
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Received 87
 requests for
 the NEMSIS
 Public-
 Release
 Research
 Dataset
 85 granted

Conducting
 a review of
 productivity

States:	2012				Total
	1	2	3	4	
Alabama	127,411	135,947	136,458	134,206	534,022
Alaska	8,278	5,980	6,717	4,501	25,476
Arizona	10,005	12,161	16,846	20,665	59,677
Arkansas	97,100	94,100	97,886	91,579	380,665
Colorado	71,420	131,115	126,493	106,851	435,879
Connecticut	149,306	102,682	154,973	143,244	550,205
Florida	530,953	560,764	609,638	662,397	2,363,752
Georgia	295,044	302,751	300,335	295,905	1,194,035
Hawaii	29,720	29,413	29,452	30,303	118,888
Idaho	29,874	27,553	32,514	29,277	119,218
Illinois	112,069	112,496	114,387	105,170	444,122
Iowa	48,310	50,576	50,144	47,621	196,651
Kansas	24,421	27,084	28,345	27,403	107,253
Kentucky	7,091	7,422	7,658	6,854	29,025
Maine	57,250	58,881	68,479	66,185	250,795
Maryland	48,723	79,772	89,893	101,490	319,878
Michigan	252,774	251,598	284,442	244,883	1,033,697
Minnesota	119,709	122,638	129,260	126,860	498,467
Mississippi	72,940	88,502	93,838	92,217	347,497
Missouri	90,961	111,298	115,586	116,245	434,090
Nebraska	25,022	30,837	31,822	32,379	120,060
Nevada	25,145	27,601	41,957	21,757	116,460
New Hampshire	45,470	42,767	45,816	44,578	178,631
New Jersey	287,564	298,271	304,346	310,945	1,201,126
New Mexico	73,781	82,052	79,060	80,742	315,635
New York	175,589	135,782	201,941	273,004	786,316
North Carolina	391,700	401,825	410,608	411,065	1,615,198
North Dakota	15,195	15,474	16,635	16,442	63,746
Northern Mariana Islands		603	910	943	2,456
Oklahoma	110,834	117,213	118,240	116,252	462,539
Oregon	4,006	4,676	7,980	6,424	23,086
Pennsylvania	401,478	411,079	436,267	429,596	1,678,420
South Carolina	292,354	300,553	304,665	307,359	1,204,931
South Dakota	10,484	11,010	11,929	10,745	44,168
Tennessee	61,236	40,302	66,493	56,913	224,944
Utah	52,040	54,650	58,944	54,817	220,451
Virgin Islands	1,847	1,798	1,590	1,776	7,011
Virginia	240,768	248,504	244,558	240,849	974,679
Washington	16,064	24,330	31,976	29,895	102,265
West Virginia	117,861	122,101	120,875	121,620	482,457
Wisconsin	133,660	134,901	138,511	134,832	541,904
Wyoming	10,358	10,560	11,235	10,260	42,413
Total	4,675,815	4,829,622	5,179,702	5,167,049	19,852,188

2011 NEMSIS Public-Release Research Dataset

States:	2011				Total
	1	2	3	4	
Alabama	103,655	109,369	107,232	115,658	435,914
Alaska	7,165	7,299	5,619	5,463	25,546
Arkansas	79,760	84,961	77,559	74,697	316,977
Colorado	68,732	84,912	71,586	67,297	292,527
Florida	444,257	436,182	431,004	454,180	1,765,623
Georgia	213,854	228,819	243,340	240,074	926,087
Hawaii	28,438	27,292	26,909	28,595	111,234
Idaho	21,860	16,831	22,240	17,074	78,005
Illinois	41,106	61,536	71,174	66,187	240,003
Iowa	42,810	40,602	42,954	47,515	173,881
Kansas	15,109	15,864	16,136	17,337	64,446
Maine	56,540	56,490	59,885	54,477	227,392
Michigan	252,649	218,174	257,119	246,389	974,331
Minnesota	114,926	114,656	124,302	118,607	472,491
Mississippi	53,496	53,986	91,105	71,588	270,175
Missouri	65,729	69,298	57,391	95,417	287,835
Nebraska	19,877	28,852	30,962	31,245	110,936
Nevada	22,737	17,776	14,257	27,760	82,530
New Hampshire	45,788	45,889	46,599	45,734	184,010
New Jersey	256,413	261,832	277,145	276,684	1,072,074
New Mexico	70,668	72,412	65,693	75,432	284,205
North Carolina	364,173	380,078	384,595	379,865	1,508,711
North Dakota	12,005	12,681	14,130	15,070	53,886
Northern Mariana	507	487	495	365	1,854
Oklahoma	98,648	83,029	104,421	103,924	390,022
Pennsylvania	164,599	186,810	310,371	373,877	1,035,657
South Carolina	285,648	287,408	291,085	285,597	1,149,738
South Dakota	10,028	10,457	11,473	10,195	42,153
Tennessee	22,043	48,067	57,301	62,044	189,455
Utah	50,167	51,354	51,139	50,387	203,047
Virgin Islands	1,863	1,429	1,613	1,832	6,737
Virginia	176,788	185,711	215,940	228,466	806,905
Washington	21,607	19,843	21,972	20,473	83,895
West Virginia	119,301	121,263	118,816	116,041	475,421
Wyoming	6,632	6,620	7,848	7,138	28,238
Total	3,359,578	3,428,269	3,731,410	3,832,684	14,371,941

Progress with Reporting



State (Current)

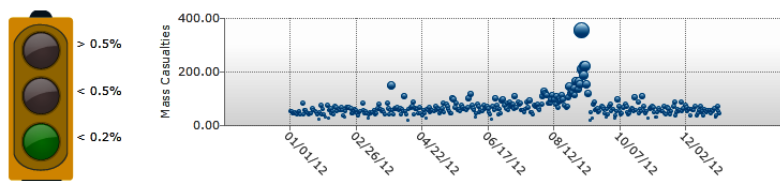
V2 NEMSIS Dashboards



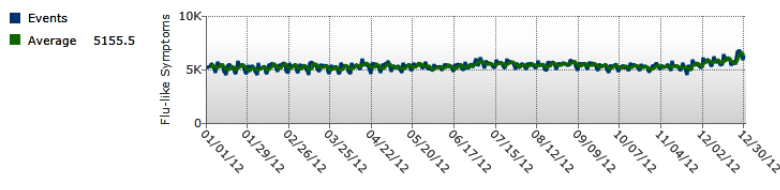
NEMSIS TAC State Dashboard: Surveillance, Performance, & Quality

State: All values
 Start Date: Beginning of p 15
 End Date: End of previous 15

Mass Casualty Events

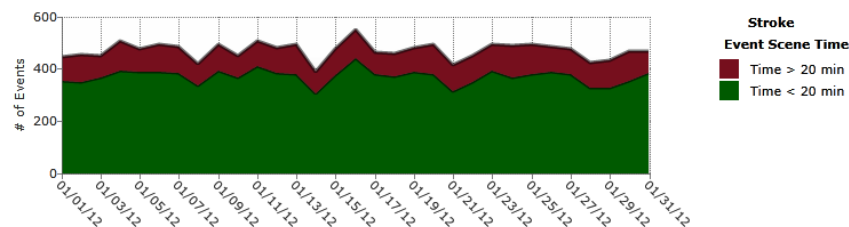
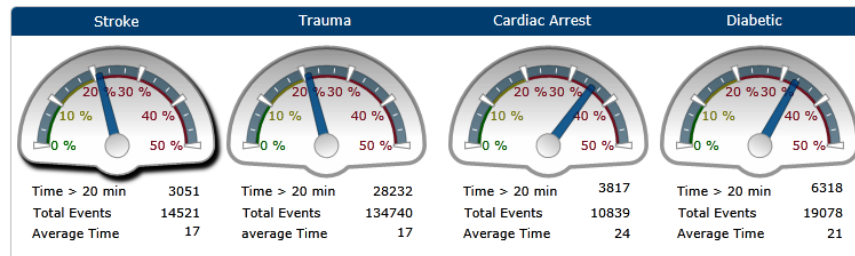


Sick Person Events



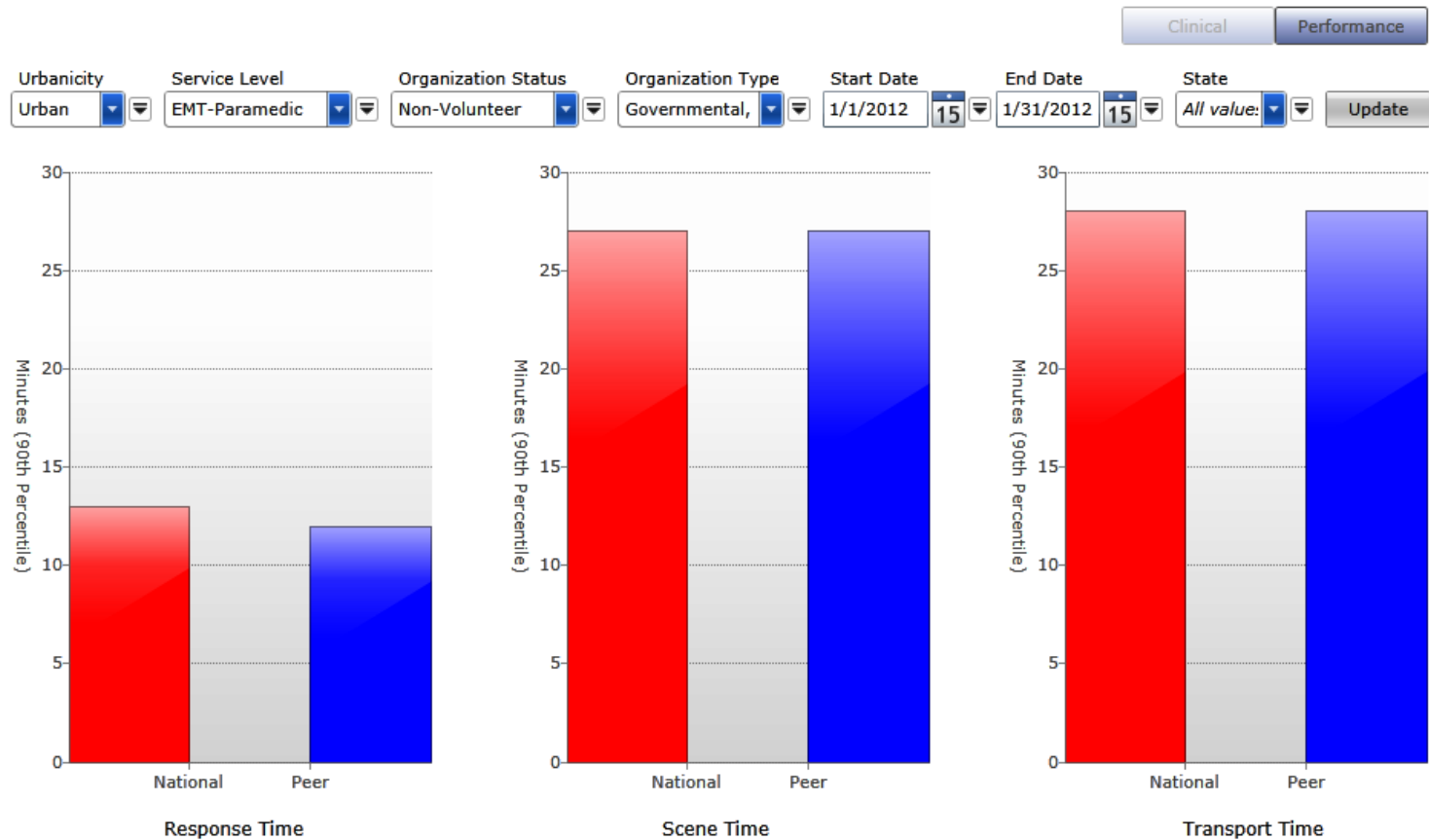
NEMSIS TAC State Dashboard: Surveillance, Performance, & Quality

State: All values
 Start Date: 1/1/2012 15
 End Date: 1/31/2012 15



State (Current)

V2 NEMSIS EMS Toolkit



New NEMSIS Server Room

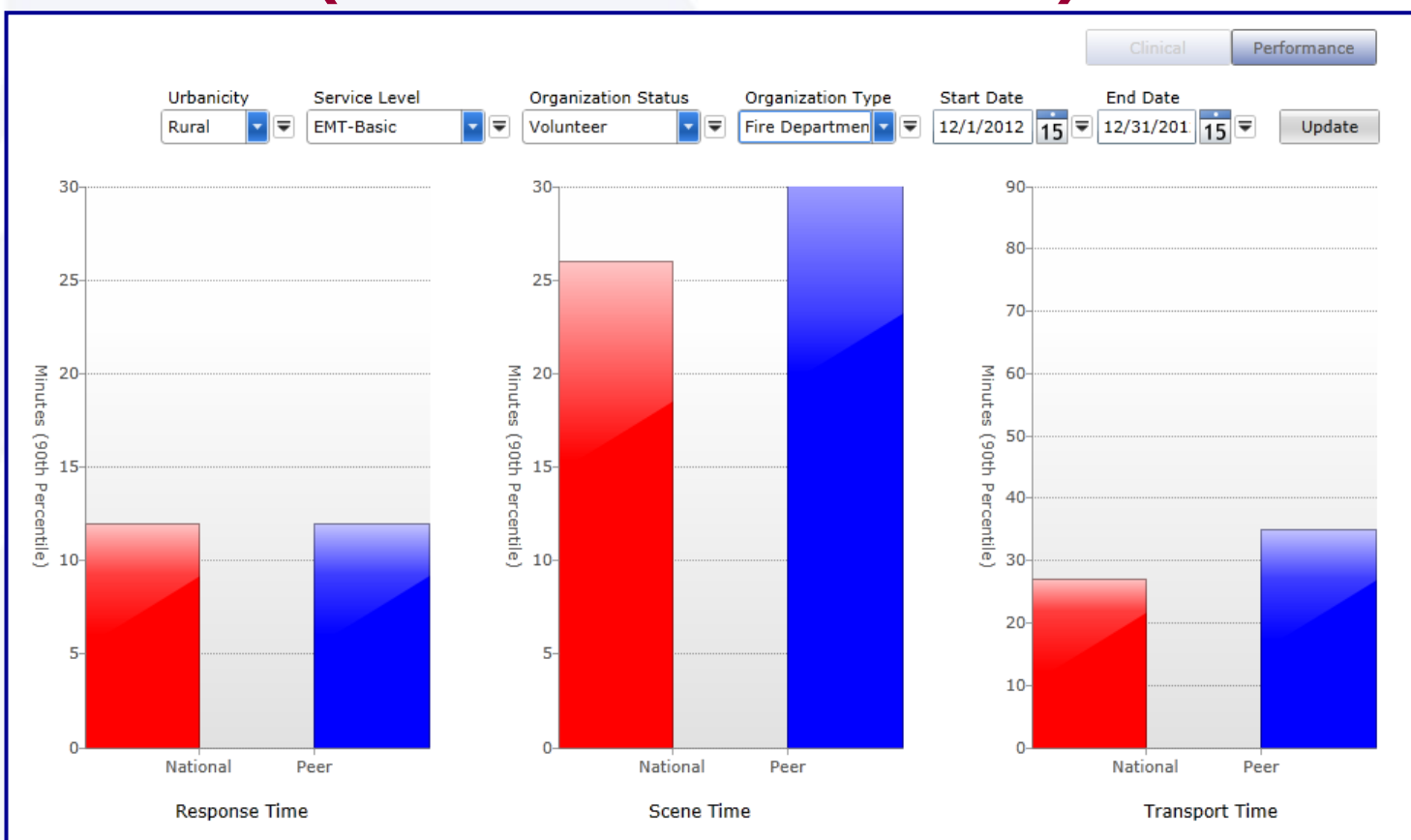


EMS Performance Dashboards

- EMS Agencies can benchmark performance against the nation and peer agencies by choosing agency demographic criteria and a date range:
 - Urbanicity
 - Urban, Suburban, etc.
 - Service Level
 - EMT-Basic, EMT-Paramedic, First Responder, Nurse, etc.
 - Organization Status
 - Non-Volunteer, Volunteer, or Mixed
 - Organization Type
 - Community Non-Profit, Fire Department, Hospital, etc.

EMS Performance Dashboard

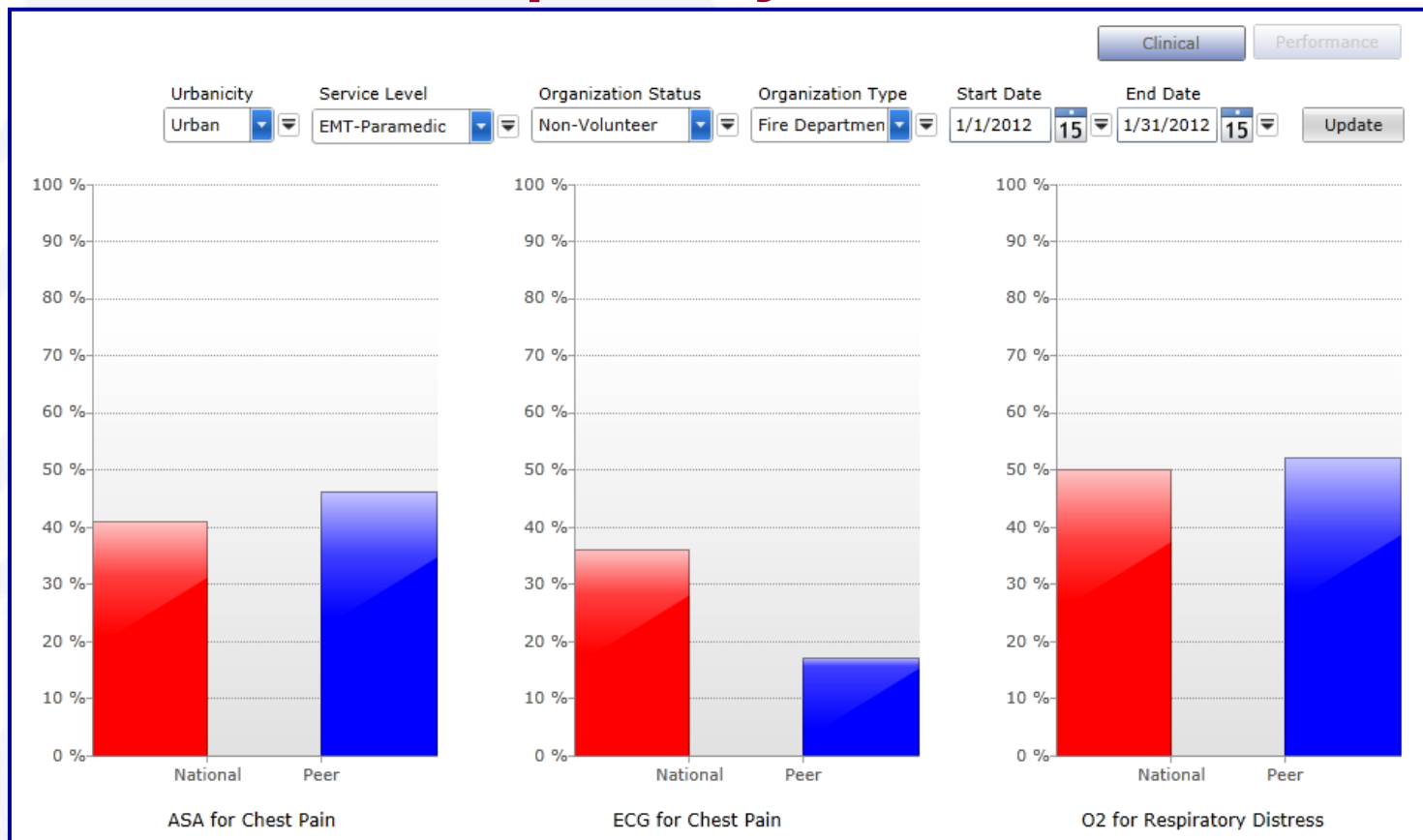
- Performance: Response Times - (90th Percentile Times)



EMS Performance Dashboard

- Clinical -

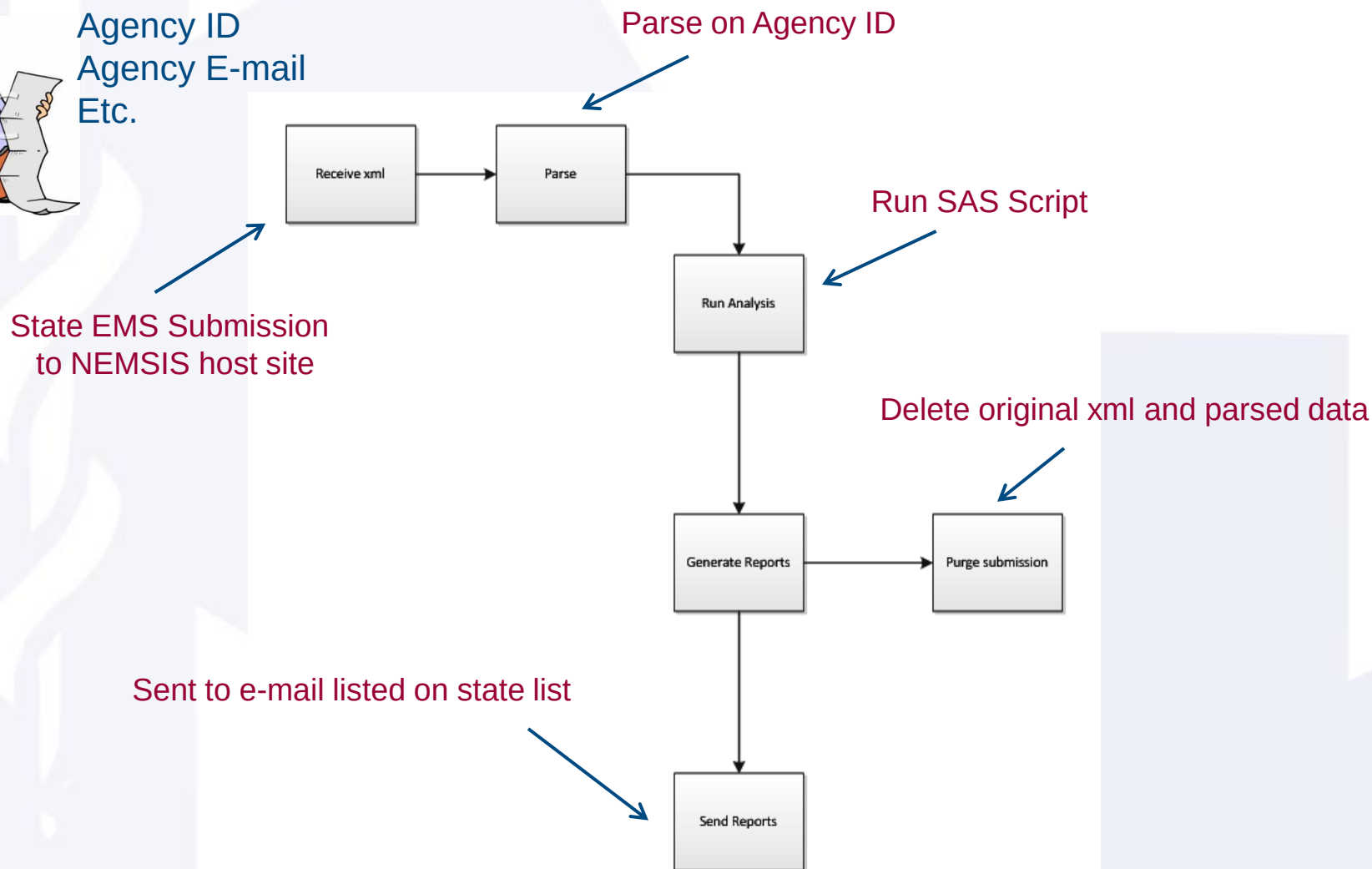
(Chest Pain & Respiratory Distress Treatments)



Local EMS Toolkit (Future V2)



Agency ID
Agency E-mail
Etc.



Agency Report – Data Quality

an County Fire and Rescue Frequency of Validation Errors 2/1/2012 – 2/29/2012

The purpose of this Data Validation Report (DVR) is to provide feedback to individual agencies on the rate of validation errors occurring with their VPHIB data submissions for the time period noted above. Validation rules are used to check data entries for accuracy. Our validation rules are either based on logic or the state's minimum data standard. For example, a logic rule will identify that an "enroute to the hospital time" cannot occur prior to arriving on scene.

Validation rules that protect the state's minimum standard will identify when an item that is required to be submitted is missing or does not contain a valid answer. Individual elements may appear more than once. It is our hope that once you know what items are frequently not being reported correctly, that you will be able to educate your providers or work with your IT staff to make corrects to improve the quality of information you are submitting.

Please contact VPHIB Support at <http://oemssupport.kavako.com/>, Support@OEMSSupport.Kavako.com, or

Data Accuracy Score

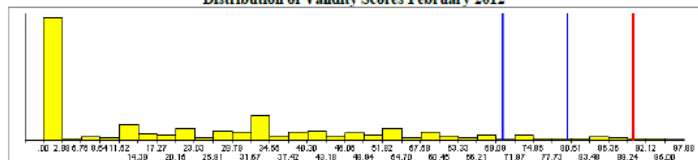
Number of Incidents for report: 1268
Number of Records by Scoring Groups

- 90 – 100 (acceptable) = 28
- 80 – 90 (below average) = 34
- 0-70 (poor) = 1191

Avg. Score: 23.1
Minimum Score: 0.0
Maximum Score: 63.0

B

Distribution of Validity Scores February 2012



Frequency of Validation Errors February 2012

Error Name & Number	Number of Records With This Error	Percentage of Agency's Records with this Error
(total number of records submitted)	1268	
E05_02 - PSAP call date/time missing!	1221	96.29%
E02_07 - The response delays, if any, of the unit associated with the patient encounter is missing.	820	64.67%

E08_05 - Number of patients at scene is missing.	637	50.24%
E02_05 - Primary Role of Unit is missing	616	48.58%
E02_04 - Type of Service Requested is missing	588	46.37%
E03_01 - Dispatch Reason is missing	580	45.74%
E05_11 - Back in Service date/time is missing	547	43.14%
E09_14 - Other symptoms identified by the patient or observed by EMS personnel is missing.	491	38.72%
E09_12 - The primary organ system of the patient injured or medically affected is missing.	483	38.09%
Logical: The Back In-Service date/time must be greater than or equal to the Unit Notified by Dispatch date/time.	478	37.70%
E09_11 - The primary anatomic location of the chief complaint is missing.	471	37.15%
E09_16 - Provider's secondary impression is missing.	439	34.62%
E02_20 - Response mode to scene is missing	413	32.57%
E02_02 - Incident Number is missing	412	32.49%
E02_12 - The EMS unit call sign/number used to dispatch and communicate with the unit is missing.	412	32.49%
E20_10 - Response Disposition is missing	412	32.49%
E19_07 - either "none" or a valid complication must be reported with the procedure.	394	31.07%
E08_07 - Location Type is missing	323	25.47%
E18_08 - Medication admin. complication must have a valid entry.	303	23.90%
E05_09 - Leave Scene date/time is missing	261	20.58%
E09_06 - Date/Time of symptom onset missing	260	20.50%
E02_08 - The scene delays, if any, are missing.	218	17.19%
E03_02 - EMD performed information is missing.	218	17.19%
E09_13 - Primary symptom is missing	204	16.09%
E12_19 - Indicators for the potential use of Alcohol or Drugs by the patient must be a valid answer (n/a, not reporting etc. is not a valid response.)	176	13.88%
E09_13 - Primary Symptom is missing	174	13.72%
E06_13 - Patient's ethnicity is required!	172	13.56%
E06_13 - Patient's ethnicity is required	146	11.51%
E01_01 - PCR Number is missing	132	10.41%
E11_01 - Indication of the presence of a cardiac arrest is missing.	129	10.17%
E05_06 - Arrive on scene date/time is missing	114	8.99%

Example from: VPHIB Quality Dashboards

Agency Report – Data Quality

September 2012 Data used are from 7/1/12 thru 7/31/12

Agency Name	Avg. Quality
640 COMMUNITY RESCUE	82.18
ABBS VALLEY BOISSEvain POCAHONTAS RESCUE SQUAD INC	100.00
ABINGDON AMBULANCE SERVICE	63.09
ABINGDON VOLUNTEER FIRE & RESCUE	89.94
ACCOMACK CO DEPT OF PUBLIC SAFETY	97.27
AIR METHODS INC/LifeEvac	58.95
AirCare	54.67
ALBEMARLE COUNTY DEPARTMENT OF FIRE RESCUE	97.64
ALBERTA VOL. FIRE DEPARTMENT	99.96
Aldie Volunteer Fire Company Inc	97.67
ALEXANDRIA FIRE DIVISION - EMS	61.61
ALLEN'S AMBULANCE SERVICE	100.00
ALTAVISTA EMS	89.70
AMBULANCE SERVICE OF BRISTOL INC	74.95
AMELIA AMBULANCE SERVICE	81.60
AMELIA COUNTY VOLUNTEER FIRE DEPARTMENT	100.00
AMELIA EMERGENCY SQUAD	99.52
AMISSVILLE VOLUNTEER FIRE & RESCUE COMPANY	99.71
APPALACHIA FIRE DEPT.	95.57
APPALACHIA RESCUE SQUAD	99.60
APPOMATTOX VOLUNTEER RESCUE SQUAD	99.95
ARARAT RESCUE SQUAD	96.67
ARCOLA-PLEASANT VALLEY FIRE DEPARTMENT	87.48
ARLINGTON COUNTY FIRE DEPT	90.13
ASHBURN VOLUNTEER FIRE AND RESCUE DEPARTMENT	86.31
ASHCAKE VOLUNTEER RESCUE SQUAD	78.39
ASHLAND VOLUNTEER RESCUE SQUAD	77.67
ATLANTIC VOLUNTEER FIRE AND RESCUE DEPARTMENT	99.43
AUGUSTA COUNTY FIRE & RESCUE	80.78
AUGUSTA HEALTH TRANSPORTATION SERVICES	100.00
BABCOCK & WILCOX EMERGENCY TEAM	93.00
BACHELORS HALL VOLUNTEER FIRE DEPARTMENT	100.00
BASSETT RESCUE SQUAD INC	95.28
BATH COMMUNITY AMBULANCE SERVICE	100.00
BATH HIGHLAND VOLUNTEER FIRE DEPARTMENT	100.00
BAYWOOD SEARCH & RESCUE	100.00
BEDFORD CO DEPARTMENT OF FIRE AND RESCUE	92.53
BEDFORD LIFE SAVING & FIRST AID CREW INC	94.18
BENSLEY-BERMUDA VOLUNTEER RESCUE SQUAD	74.14
BENT MOUNTAIN FIRST AID & RESCUE SQUAD INC	84.33
BERGTON VOLUNTEER FIRE COMPANY	81.50
BIG ISLAND EMERGENCY CREW INC	96.93
BIG STONE GAP RESCUE SQUAD INC	100.00

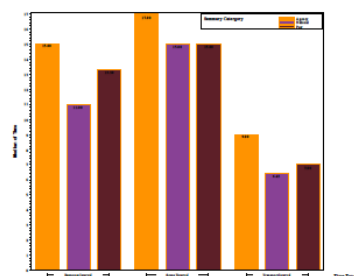
Scale: Green/Acceptable = 95 - 100; Yellow/Below Average = 90 - 94.9; Red/Poor = less than 90 1

Agency Report – System Response

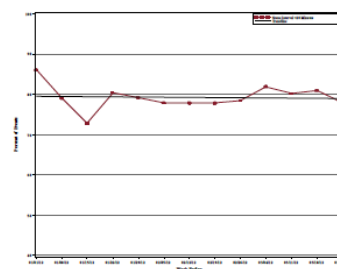


EMS Performance measures: Elapsed Times

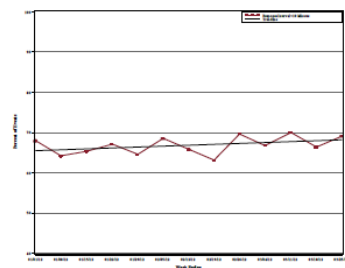
Performance Comparison between Peers and National



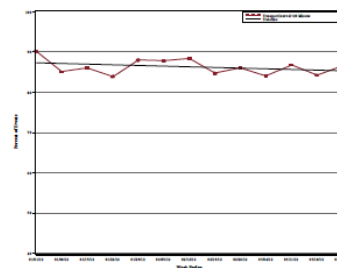
Weekly Percentage of Scene Time less than 20 Minute



Weekly Percentage of Response Time less than 10 Minute



Weekly Percentage of Transport Time less than 20 Minute



Agency Reports

- Under Development
 - Trauma Toolkit (Possible Injury E09_04)
 - Dispatch complaint
 - Incident Zip Code: Scene time, transport time
 - Procedures: successful attempts
 - Delays (all 6)
 - Cardiac Arrest Toolkit
 - Dispatch complaint
 - Incident Zip Code: Scene time, transport time
 - Procedures: successful attempts
 - Delays (all 6)

Questions?

- States will be required to ensure lists are updated and accurate (quarterly)
 - Are there protections that you need?
- States will be required to notify agencies of their participation
 - Cant send unsolicited email
- Only one email per agency

National Data Cube (Current)

- Public dataset
- Generate and save tables
- Build charts
- Manipulate the format
- Export Reports



Searchable Query System (Current)

- All report domains
- Areas of emphasis

 New Subscription

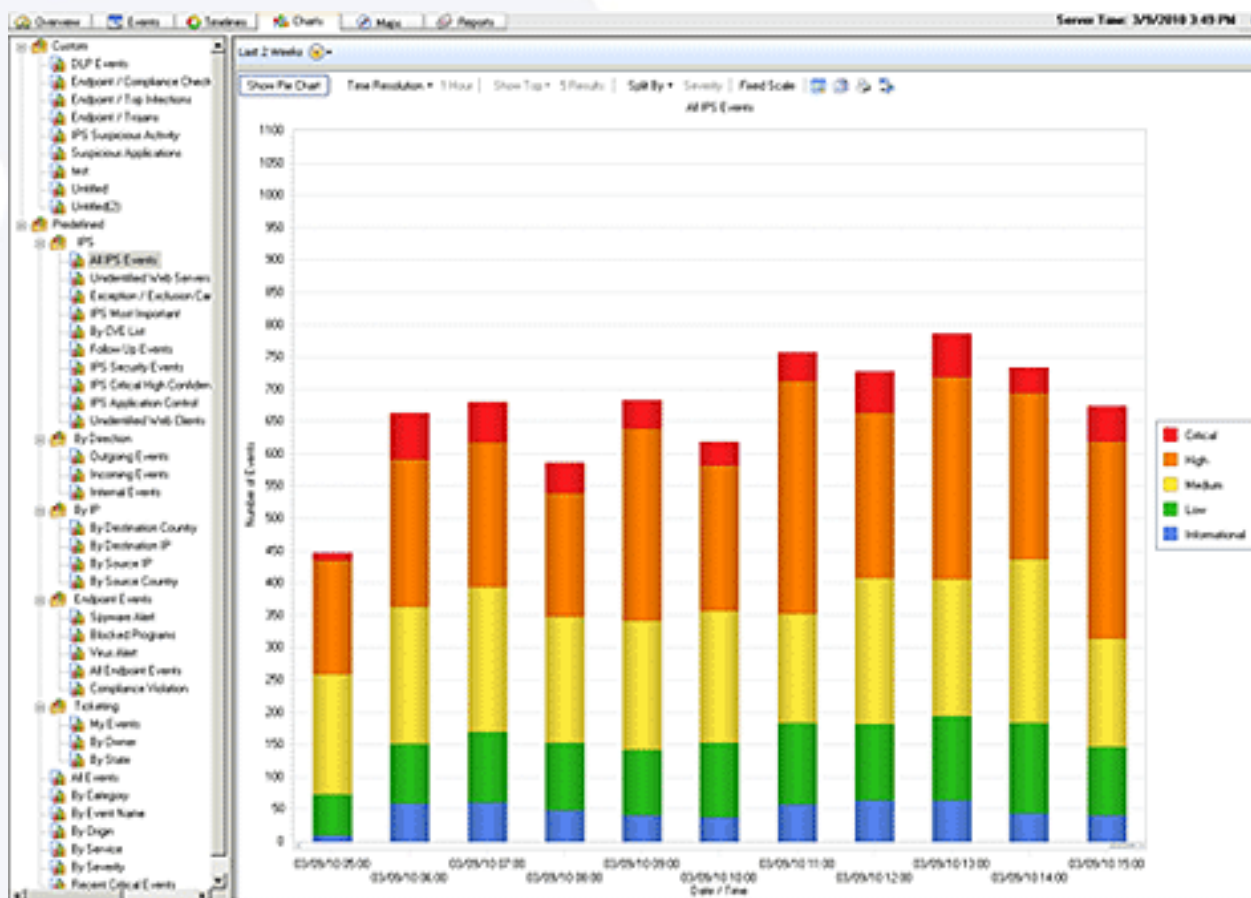
Quarter:	Q1, Q2, Q3, Q4	Year:	2008
Level of Service:	EMT-Basic, EMT-Intermediate, E	Response Mode to Scene:	Lights and Sirens, No Lights or
Type of Service Requested:	911 Response (Scene), Interce	Complaint Reported by Dispatch:	Abdominal Pain, Allergies, Anir
Sex:	Female, Male	Include Nulls:	No
Age (yrs):	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 1	Race:	American Indian or Alaska Nati


 1 of 6
 
 100%
 
 Find | Next
 
 Select a format
 
 Export
 

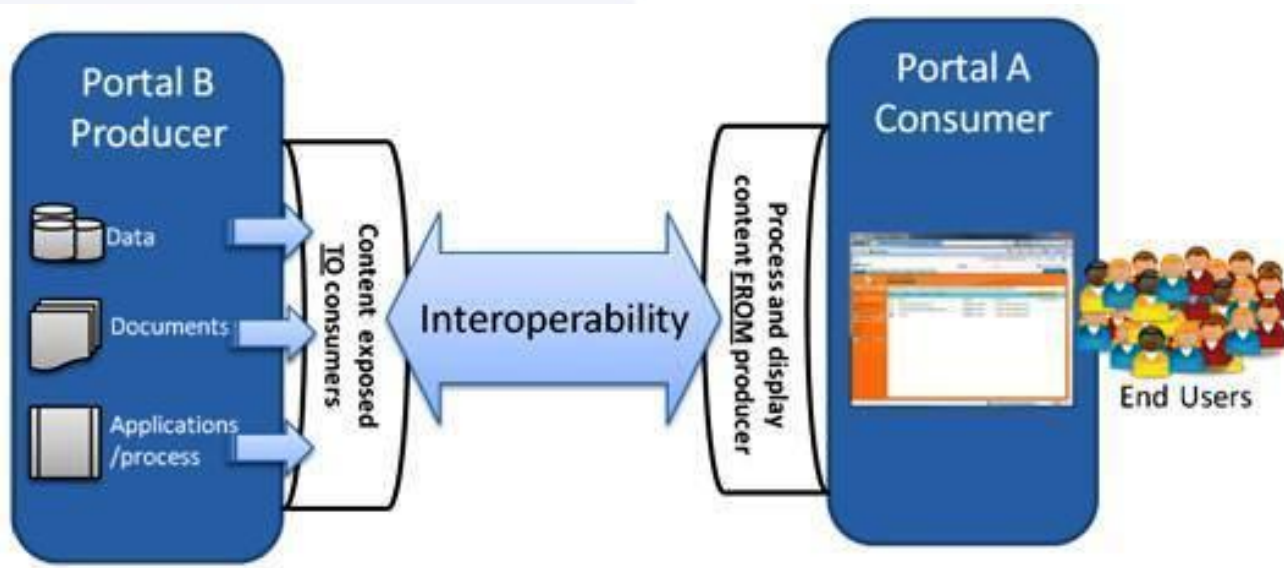
National Tools (Future)

- V₂
 - Update OLAP Cube
 - Update reports to Reporting Services (2012)
 - Allow for dashboard of charts
 - Add predefined queries to Cube
 - Develop a web services portal allowing software to download national benchmarking data
- V₃
 - **Redefine process/performance measures**

Predefined Queries in Cube



Web Services Portal

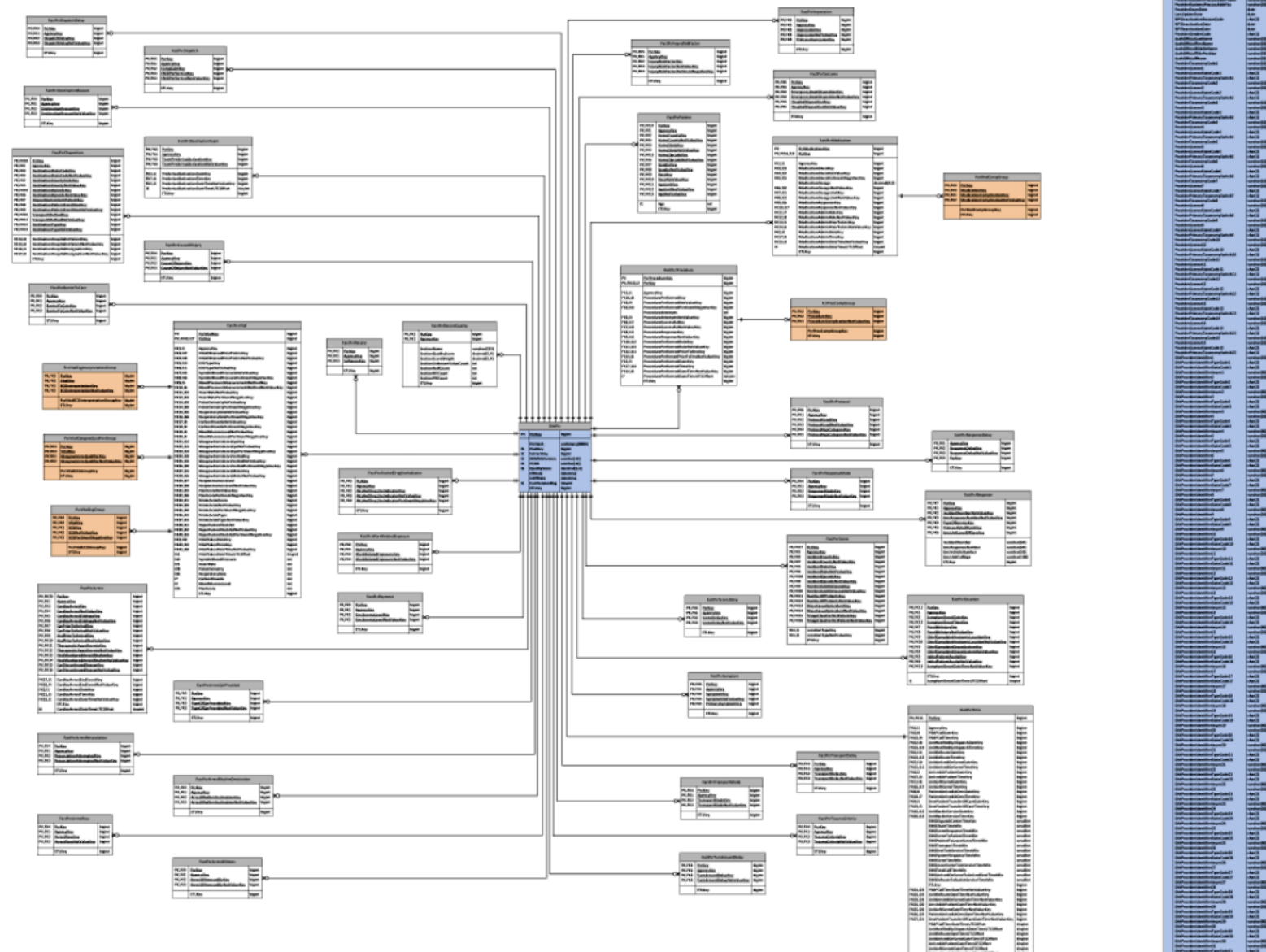


Progress with Version 3!

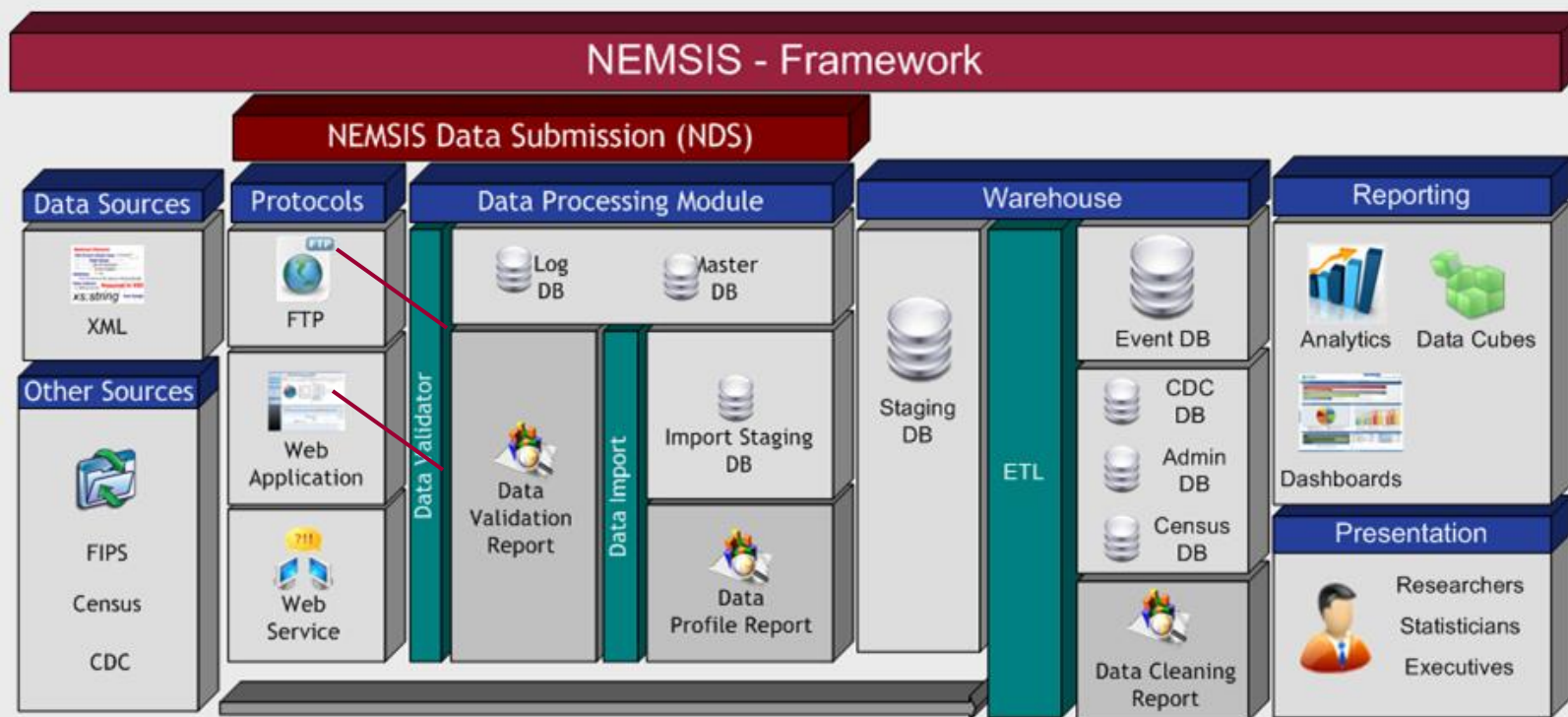


V3.2.7 Data Warehouse

Patient Care Record Datamart



NEMSIS Data Process

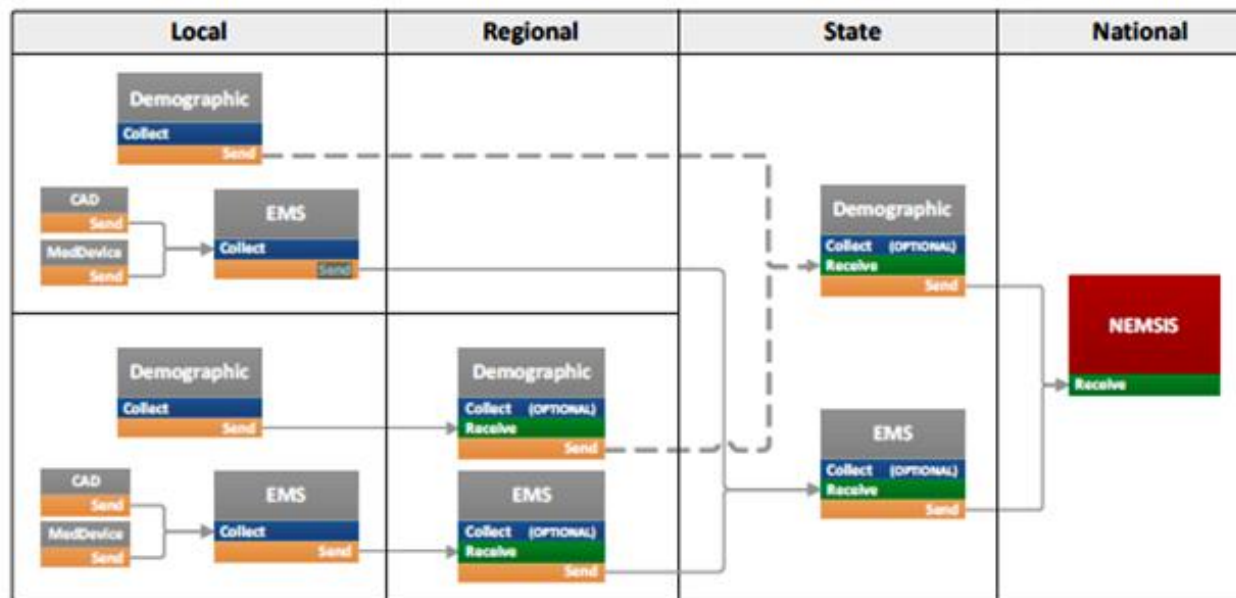


Data Warehouse Testing

- Auto-Generated 300,000 records
 - Testing web-services submission
 - Element cataloging (right place)
 - ETL rule violations



Compliance Testing



Software implementation issues to be addressed in the compliance assessment include:

1. Ensure the full NEMSIS v3 Demographic standard is implemented in the user interface
2. Ensure the full NEMSIS v3 EMS standard is implemented in the user interface
3. Ensure the implementation of custom elements as provided in the test cases
4. Ensure the implementation of Schematron for business logic
5. Ensure the ability to process multiple Schematron files
6. Ensure the use of Schematron for business rules when a Demographic record is finalized
7. Ensure the use of Schematron for business rules when a EMS record is finalized
8. Ensure the processing of a NEMSIS v3 MedDevice dataset populates the EMS event
9. Ensure the processing of a NEMSIS v3 CAD dataset populates the EMS event

V3 Software Testing



National EMS Information System (NEMSIS)
Helping Unify EMS Data

SEARCH NEMSIS:

FOLLOW US ON SOCIAL MEDIA!
facebook.com/NemsisTac
twitter.com/NemsisTac

Home	The Project	Reporting Tools	Version 3	Version 2	Reference Materials	Support	Contact Info
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[Home](#) > [Version 3](#) > [Compliant Software](#)

05-Sep-2013

Version 3 - Compliant Software

The NEMSIS TAC announced during the May 2012 NEMSIS Version 3 Implementation Calls that NEMSIS Version 3 Compliance Testing is open effective May 29, 2012.

NEMSIS Version 3 Compliant Software Companies and their Products (based on version) will be listed here once Compliance has been successfully achieved.

We will also track the progress of Software Companies/Products through the NEMSIS V3 Compliance Process. Below is a table characterizing the current status of Companies undergoing compliance testing.

Software Company	Intended Audience	Pretesting*	Start Date	Active Testing**	Start Date
A/R Concepts, Inc.	Local EMS	✓	4/5/2013		
ImageTrend, Inc.	State	✓	7//11/2013		

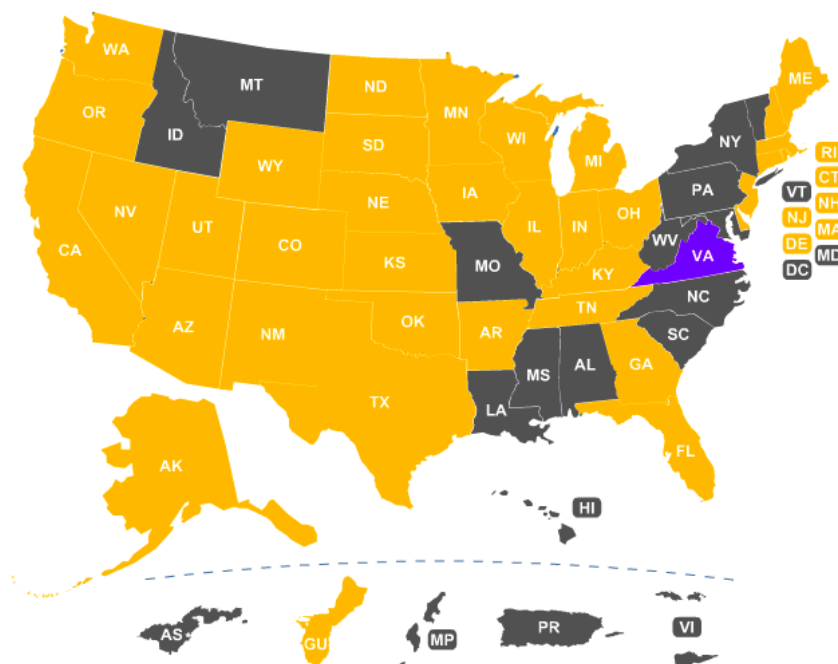
* Pretesting: Submit Demographic and EMS datasets, pass XSD and Schematron validation

**Active Test: Validating test cases, custom element implementation and schematron rules

Chicken Egg Problem!

State & Territory Version 3 Transition Information ...and status of Version 3 submission to NEMSIS

- | | |
|--|--|
| ■ Submitting v3 Data | ■ v3 Documents Available |
| ■ v3 Implementation Plan | ■ Limited Progress |



NEMSIS Annual Development

Meeting

Software Vendor News

NEMSIS 2013 Annual Meeting "Progression of the V3 Data Standard"

Save The Dates: October 24-25, 2013

The purpose of this meeting is to answer questions regarding NEMSIS V3 products, detail NEMSIS V3 compliance testing, introduce a V2 to V3 mapping solution, vet suggestions for the 2014 V3.x release, introduce an XML-based markup standard for encoding clinical data for exchange (HL7-CDA) and, discuss ideas regarding integration of national and local EMS data reporting.

Please complete the meeting [Registration](#).

View the draft [agenda](#).

Deer Valley Resort registration [here](#).

[Things to do in Park City](#).

V3 Minor Revision Cycle

NEMSIS Version 3 Minor Revision Process Schedule

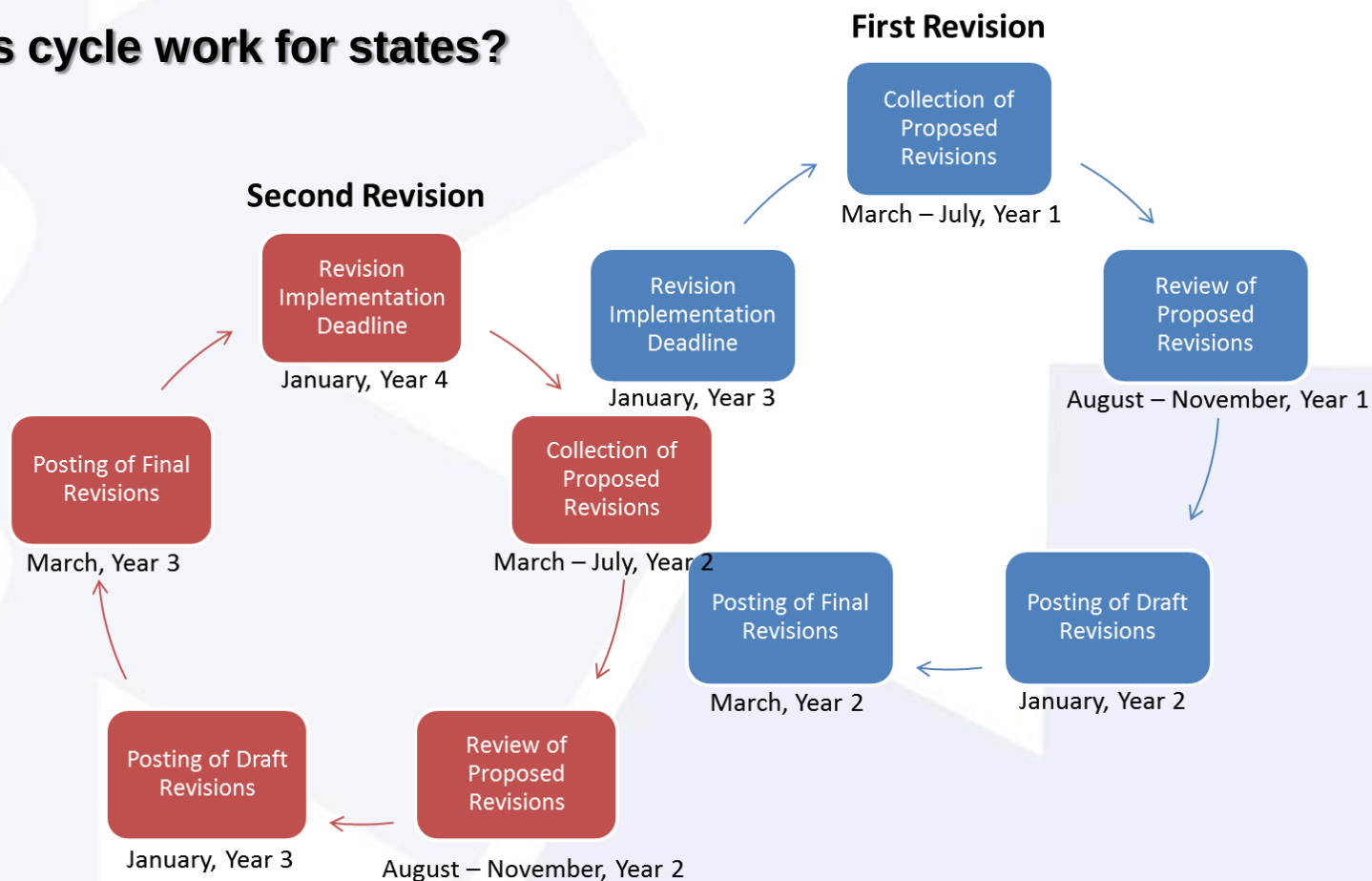
Future modifications to the NEMSIS Version 3 dataset will use the following minor revision and release process. Only an identified critical error will warrant a change outside of this schedule:

V3 Minor Revision Process	TIMELINE
1. Public feedback/recommendations for the next minor revision. →send via email to Jorge & Karen a. Jorge.Rojas@hsc.utah.edu b. Karen.Jacobson@hsc.utah.edu	1. March through July 31, 20xx (of current year)
2. NEMSIS TAC will review the requested changes with EMS stakeholders.	2. August through November 20xx (of current year)
3. V3 Software Developer's & State Data Manager's Annual Meeting - Review requests - Discuss revisions & impact	3. Fall 20xx (of current year)
4. NEMSIS TAC posts Final Draft revisions for public review, accuracy, and comment.	4. December 20xx through January 31, 20xx
5. NEMSIS TAC makes necessary revisions and posts the updated Official Release to v3.x.x by March 1, 20xx.	5. March 1, 20xx (of the following year)
6. EMS Software Companies required to have implemented the March 1 revisions and have all client applications compliant by January 1, 20xx.	6. January 1, 20xx (nine months from Official Release)

NOTE: Please see below for a real time example of the minor revision process.

V3 Minor Revision Cycle

Will this cycle work for states?



V3 Revisions

- Critical Error Revision (V3.3.3)
 - 4 changes (2nd address line, 5010 X12 billing, pattern)
 - Available September 23rd
- Minor Revision (V3.3.4)
 - 143 requests for change
 - Major revisions – 49
 - Minor revisions – 95
 - Educational – 4



V3 Revision Request Types

- Remove Elements
- New Elements
- Update Elements –
 - Add as National
 - Remove as National
- Value List Changes – Add, Remove
- Change Constraints
- Name Change to Elements
- ...more

V3 Revision Definitions

- Critical
 - Pattern Discrepancy
 - Billing Update – meet CMS standard
- Major
 - New Elements
- Minor
 - Adding Values
 - Updating Comments, Definitions
- Educational

Move to HL7




[Home](#) [Vote](#) [Tally](#)
[Tally Home](#) | [Return to Ballot Deskop](#)

Balloting

Ballot Tally Details

HL7 Implementation Guide for CDA® Release 2 - Level 3: Emergency Medical Services; Patient Care Report, Release 1 - US Realm

Normative 1
Aug 12, 2013 - Sep 16, 2013

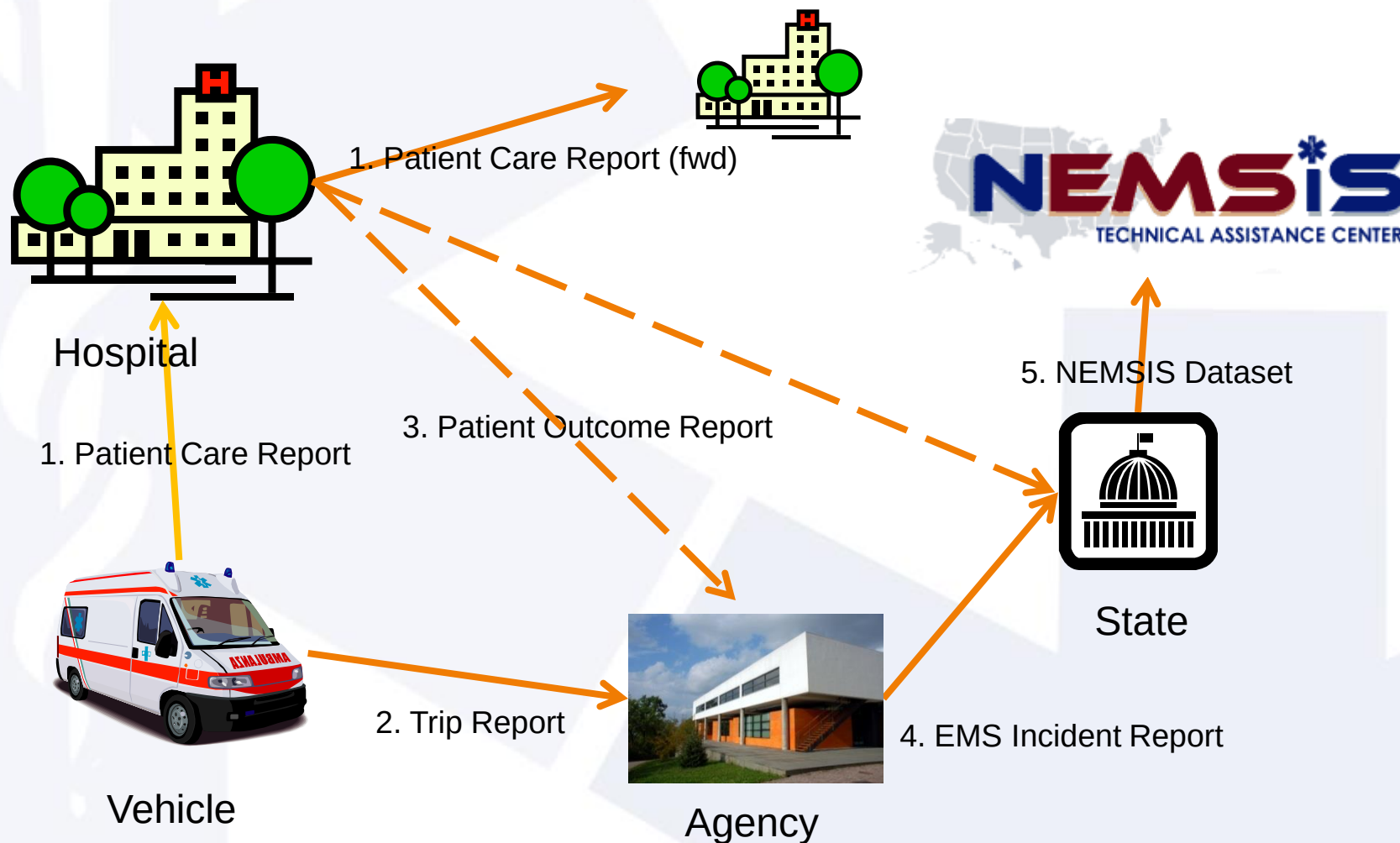
CDAR2L3_IG_EMSRUNRPT_R1_N1_2013SEP

Announcement Documents: [Formation of Ballot Pools for September 2013 Ballot Cycle \(pdf , 148.5 kb \)](#) [Formation of Reaffirmation Review Groups for September 2013 Ballot Cycle \(pdf , 46.6 kb \)](#) [Update to Ballot Announcement for September 2013 Ballot Cycle \(pdf , 28 kb \)](#) [NonMember Participation in HL7 Ballots Instructions \(pdf , 212.7 kb \)](#) [Formation of Out-of-Cycle Allergies and Intolances DAM Ballot Pool for September 2013 \(pdf , 52.8 kb \)](#) [Announcement of Reaffirmation Review Group Openings for September 2013 Ballot Cycle \(pdf , 46.4 kb \)](#) [Announcement of Ballot Openings for September 2013 Ballot Cycle \(pdf , 151.8 kb \)](#) [Announcement of Additional Ballot Openings for September 2013 Ballot Cycle \(pdf , 86.5 kb \)](#) [Seeking Interested Members to Help Us Fulfill Balance of Interest for Normative Ballots - September 2013 Ballot Cycle \(htm , 12.8 kb \)](#) [Announcement of Delayed Ballot Openings for September 2013 Ballot Cycle \(pdf , 73.5 kb \)](#) [Announcement of Out-of-Cycle Allergies and Intolances DAM Ballot Opening for September 2013 \(pdf , 42.8 kb \)](#)

Ballot Content: [Ballot Document \(zip , 580.7 kb \)](#)

	Aff.	Neg.	Abst.	NV
Affiliate	0	0	1	28
Consultant	0	0	0	13
Government/Non-Profit	2	0	0	12
Payor	0	0	0	0
Pharmaceutical	0	0	0	0
Provider	0	0	1	33
Vendor	0	0	2	17
Totals	2	0	4	103
% of Votes	1.83%	0.00%	3.67%	94.50%
Quorum				5.50%
Approval				Have not achieved Quorum yet

Possible CDA Implementations



How are we Doing?



2013 Objectives

- **IT Features**

- Implementation of the NEMSIS V3 processing model
- Publish the 2012 NEMSIS Public Release Research Dataset
- Develop a value-by-value translation of V2 to V3
- Finalize the national EMS probability sample
- Develop new suite of reporting tools (as defined in Table 3.2)
- Enhance Compliance Testing Environment
- Develop V3 Libraries
- Create NDX-type V3 report

- **Service Features**

- Bring an additional 5 states to NEMSIS compliance
- Redesign of the NEMSIS website
- Restructure the NEMSIS Advisory Board
- Complete the HL7 DSTU period
- Complete NEMSIS Annual publication
- Instructional Videos/Manuals
- All encompassing NEMSIS CDA
- Software Implementation Calls
- Integration with National Information Exchange Model (NIEM)
- NEMSIS-compatible air-medical, EMD/CAD and critical care datasets
- Develop “best practices” documents

IT Features

- Implementation of the NEMSIS V3 data processing model
- Publish the 2012 NEMSIS Public Release Research Dataset
- Develop a single authentication for reporting tools
- Develop a value-by-value translation of V2 to V3
- Transition states to NEMSIS V3
- Finalize the national EMS probability sample
- Develop new suite of reporting tools
- Enhance Compliance Testing Environment
- Develop Custom Element Library
- Create NDX-type V3 report

Service Features

- Bring an additional 5 states to NEMSIS compliance
- Redesign of the NEMSIS website
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- Develop “best practices” document

How Far We Have Come!



The original Butler County Rescue Squad. November 26, 1977

Posted by Joe Moreland (9/13/2013)

Questions



Reporting Tools and Stakeholders for 2013 Development

<u>Stakeholder</u>	<u>Need</u>	<u>Tool</u>
Federal Partners	Accountability Congressional Inquiries	Annual Full Database (SQL Server 2012, SharePoint Tools)
State Level EMS-DM	Data Quality Data submission (total) Agency & Software Level EMS Performance National Benchmarking Surveillance (real time)	NDX type tool (V3)? (SQL Server 2012, SharePoint Tools) (SQL Server 2012, SharePoint Tools) (SQL Server 2012, SharePoint Tools)
EMS Agencies	Performance Benchmarking	Toolkit
Researchers	Hypothesis Generation Case-level Assessment	OLAP Cube Annual Public Dataset
Public	Awareness Simple Questions Bits of info	(Tableau Public) (SQL Server 2012, SharePoint Tools) Facebook & Twitter
Developers	Tools Liaison to States Development direction	Website SharePoint/Website Forum

Approach for EMS Agency Toolkit (V2)

Advertise that EMS Toolkits Available (send request for toolkit to SDM)
 State EMS Data Manager verifies an EMS agency request (forwards request to the TAC)
 SAS script builds report for EMS agency on a quarterly basis
 TAC provides (by email) access information to password protected file on website
 Site requests provider Certification and provided password
 Passwords good for 1 year...then renew with SDM