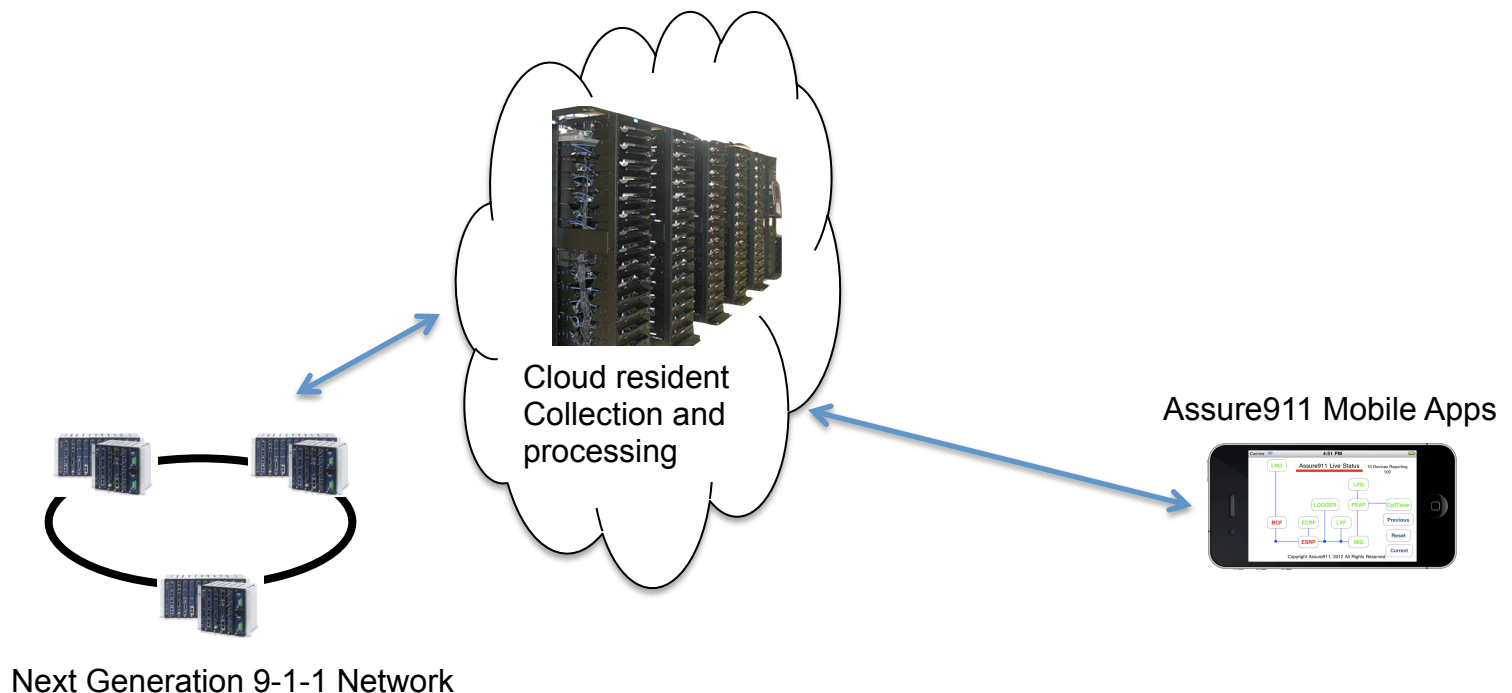


Assure911®
Patented Architecture
for
Next Generation 9-1-1
Reliability

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Assure911 is a registered trademark of Network Expert Software Systems, Inc. (NESS)
Assure911.net,LLC is exclusively licensed to use the NESS trademark and patent

Assure911.net,LLC is a start-up company providing Internet-based hosted monitoring services for network service providers, and equipment and software suppliers in the emerging Next Generation 9-1-1 industry.



Incubating Version 1, and Building “Industry Presence”

- ✓ Assure911 software deployed in the first Standards-based NG911 deployment:
 - Highly visible project, based in southern Illinois
 - 21 Dispatch Centers
 - Collecting data from 160 devices
 - Alerting on troubles that effect completion of calls
 - Users reacting to troubles using Mobile Apps on iOS and Android platforms
- ✓ Invited by FCC for ex parte meeting on Improving 9-1-1 reliability (April 2013)
- ✓ Provided testimony to State of Illinois Commerce Commission and FCC
 - Provided description of NG911 system design and reliability using our system
- ✓ Presented at national and regional Industry Group Conferences: NENA, APCO

The screenshot shows the homepage of The News Tribune. The top navigation bar includes links for Classifieds, Jobs, Cars, Homes, Apartments, Legals, and Place an Ad. The main header features the newspaper's name, "THE NEWS TRIBUNE", with a mountain graphic to the left. Below the header is a secondary navigation bar with links for HOME, NEWS, SPORTS, BUSINESS, OPINION, LIVING & ENTERTAINMENT, and LOCAL DEALS. The "NEWS" link is highlighted. On the right side of the header, there is a "Subscription" link and a search bar. The main content area displays a news article titled "State suggests \$2.9 million fine against CenturyLink for April 911 outage". The article is by Alexis Krell, a staff writer, and was published on December 2, 2014. The article text states that CenturyLink should pay a penalty of up to \$2.9 million for a statewide 911 outage earlier this year, as recommended by state regulators. It also mentions that a third-party vendor's software coding error caused the roughly six-hour outage, which kept the vast majority of Washington residents from being able to call 911 late April 9 and early April 10. On the right side of the article, there is a sidebar with a "Get your credit and report" section and a "Get U access" section. At the bottom right, there is a partial view of another article titled "Ev Br M".

Classifieds Jobs Cars Homes Apartments Legals Place an Ad

Subscription
Search

HOME NEWS SPORTS BUSINESS OPINION LIVING & ENTERTAINMENT LOCAL DEALS

News > Local News






State suggests \$2.9 million fine against CenturyLink for April 911 outage

BY ALEXIS KRELL
Staff writer December 2, 2014

CenturyLink should pay a penalty of up to \$2.9 million for a statewide 911 outage earlier this year, state regulators recommended in a report released Tuesday.

A third-party vendor's software coding error caused the roughly six-hour outage, which kept the vast majority of Washington residents from being able to call 911 late April 9 and early April 10.

Get your credit and report
Get U access
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“Assure911.net proposes a reporting scheme that would extend from 911 callers through to the PSAP that serves them. As a threshold matter, we note that the circuits from the end-user to the selective router lie beyond the scope of this proceeding.

“AT&T also observes that reporting obligations above and beyond what would accompany the certification would require Covered 911 Service Providers to file information that “is not necessary to ensure that providers regularly carry out diversity audits.

“Other commenters share this view. We agree and decline to impose a separate reporting obligation on Covered 911 Service Providers at this time. ”

From:

Document FCC 13-158 Public Safety Docket No. 13-75

REPORT AND ORDER Improving 911 Reliability

Adopted: December 12, 2013

Released: December 12, 2013

III. DISCUSSION, D. Certification Requirements, 1. Circuit Diversity Audits,
Paragraph 87, Page 30

“All entities in the chain of end-to-end 911 service must give serious consideration to ensuring that information about alarms associated with critical physical and logical functionalities is shared among such entities along the 911 call chain”

From:

April 2014 Multistate 911 Outage: Cause and Impact

Report and Recommendations, Dated October 10/2014

Public Safety Docket No. 14-72 PSHSB Case File Nos. 14-CCR-0001-0007

Section 4.4 Communications Among 911 Ecosystem Participants

“Our goal of proactive, measured accountability for reliable 911 call completion extends from the provision of service to the 911 caller at one end to the provision of service to the PSAP on the other.”

From:

Document FCC-14-186A1

POLICY STATEMENT AND NOTICE OF PROPOSED RULEMAKING

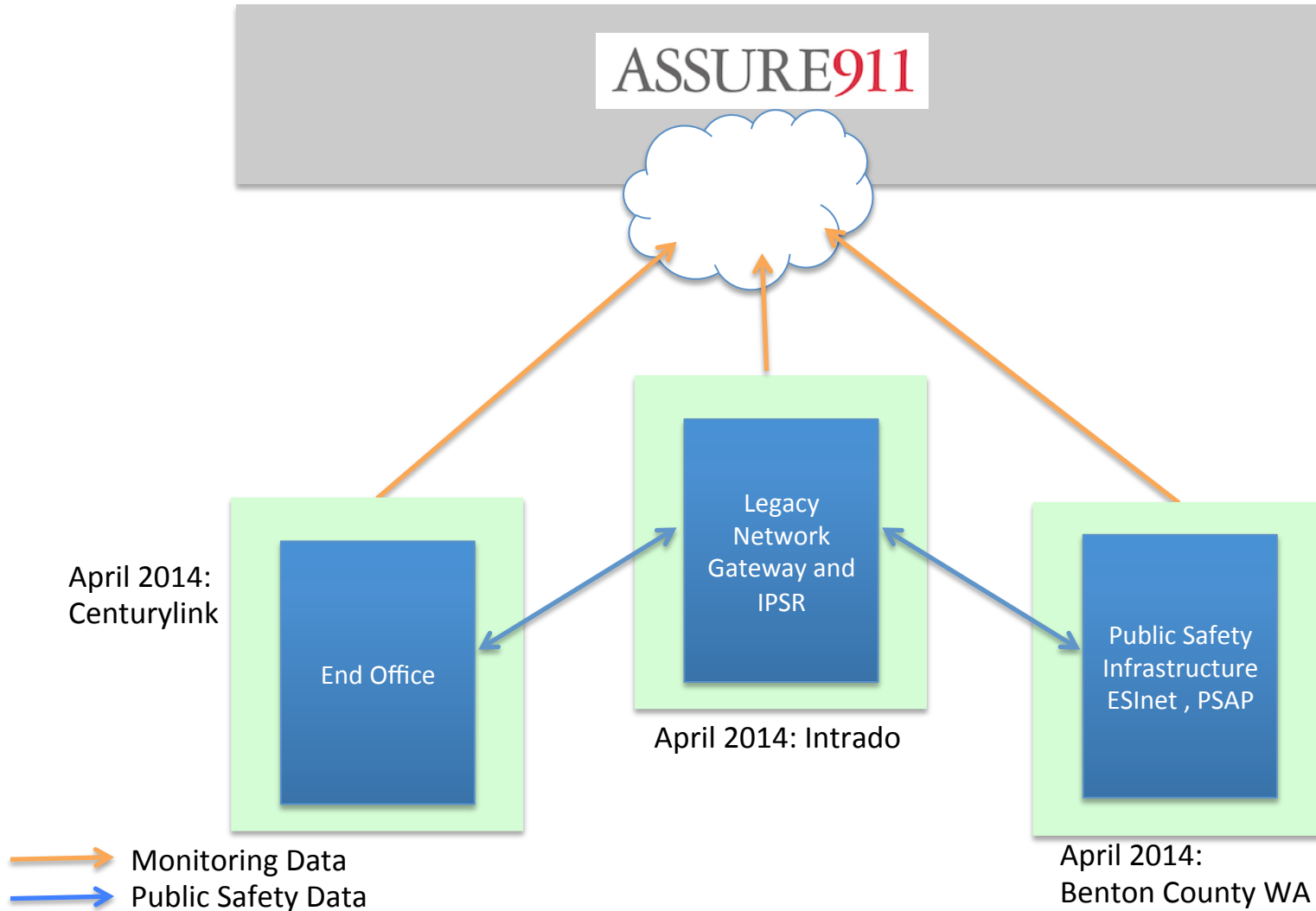
Adopted: November 21, 2014

Released: November 21, 2014

II. BACKGROUND, A. Entities Providing 911 Connectivity, Paragraph 7, Page 4

Some Features of the Patented “9-1-1 Status System and Method”

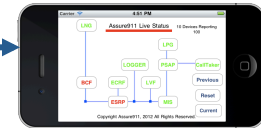
- Allows proactive monitoring of the NG 9-1-1 infrastructure
- Collection of data from two or more 9-1-1 networks
- Collection of data from both originating and terminating networks
- Processing and Alerting based on troubles found



Outage Notification via Mobile App

ASSURE911

ASSURE911



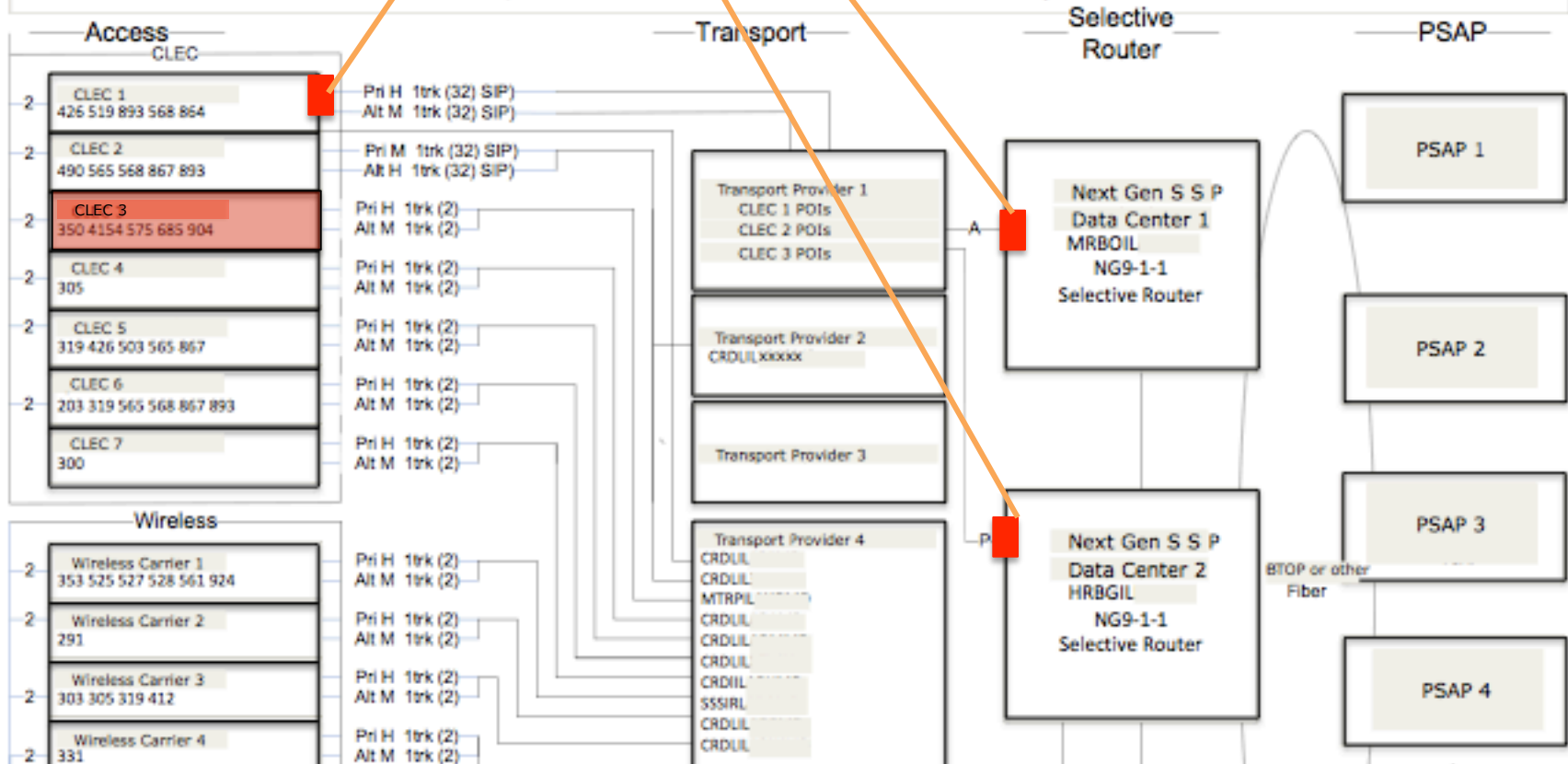
Carrier and VSP OSS

IP Transport OSS

Element Manager

Element Manager

Network Diagram for: Illinois LATA: 363 NPA: 618 County: Jackson



Mobile App Alert

ASSURE911

The sequence of screenshots illustrates the following workflow:

- Alert Screen:** A notification titled "TermFailure Reported" indicates 1 failure from 01/29/2015 22:09:36 to 22:09:36. The background shows a network diagram with components like Transport, Carrier, BCF, and ALI. A "Detail" button is highlighted.
- Alarm List Screen:** Displays "5 alarm types retrieved". A list of alarms is shown, with the entry "As of 13:52:17 710 TermFailType BCF" selected. An orange arrow points from this entry to the next screen.
- Table Screen:** Shows a table with "Retrieving Details ...". The table has two columns: "Target" and "Trouble". The selected row is "Union County (Union1)" with the trouble "Abnormal_EndMedia_Term No_user_responding Call I". An orange arrow points from this row to the final screen.
- Data Screen:** Displays a JSON object with details about the failure, including locationUri, sip, country, and various call parameters. An orange arrow points from the "Union County (Union1)" row to this screen.

Table Data:

Target	Trouble
Union County (Union1)	Abnormal_EndMedia_Term No_user_responding Call I
Carbondale Pd (Carbon2)	Abnormal_EndMedia_Term No_user_responding C
Union County (Union2)	Abnormal_EndMedia_Term No_user_responding C
CSIWestJackson_A	Abnormal_EndMedia_Term Temporary_failure Call
Jackson County (Jackson1)	Abnormal_EndMedia_Term No_user_responding C
Jackson County (Jackson1)	Abnormal_EndMedia_Term No_user_responding C

JSON Data:

```
{  "locationUri": "sip:9769,357yc6s64ceyoiuy5ax3o@ls.exa",  "ca:country": "US",  "ca:A1": "IL",  "ca:A2": "181",  "ca:A3": "COBDEN",  "ca:RD": "MOUNTAIN GLEN",  "ca:STS": "RD",  "ca:HNO": "344",  "ca:NAM": "██████████",  "/ca:civicAddress": "retransmission-allowed"}
```