.conf2015

Tracking Health Claims Status Across Multiple Formats, Forms, Systems, and Platforms (and not losing any!)

Stuart Sands
Principal Systems Architect,
Kaiser Permanente



Disclaimer

During the course of this presentation, we may make forward looking statements regarding future events or the expected performance of the company. We caution you that such statements reflect our current expectations and estimates based on factors currently known to us and that actual events or results could differ materially. For important factors that may cause actual results to differ from those contained in our forward-looking statements, please review our filings with the SEC. The forward-looking statements made in the this presentation are being made as of the time and date of its live presentation. If reviewed after its live presentation, this presentation may not contain current or accurate information. We do not assume any obligation to update any forward looking statements we may make.

In addition, any information about our roadmap outlines our general product direction and is subject to change at any time without notice. It is for informational purposes only and shall not, be incorporated into any contract or other commitment. Splunk undertakes no obligation either to develop the features or functionality described or to include any such feature or functionality in a future release.

Agenda

- Landscape & Context
- The Challenge
- The Solution
- Outcomes
- Next Steps
- Best Practices
- Summary and follow-up

About Kaiser Permanente

Members	Medical Facilities & Staff	Employees
10.1 million	38	177,445
_	Hospitals	Technical, administrative and clerical employees
/ Geographic Regions	619	and caregivers
	Medical Offices & Outpatient Facilities	>6,000 in IT!
	17,791	
	Physicians	
	49,978	
	Nurses	
	and a LARGE variety of systems	5 <i>!</i>



Claims Adjudication: High Level

10,000,000 claims processed daily (and growing!)

Submit Claim

Validate Claim

Structural Validation Logical Validation Acknowledgements Scan Links

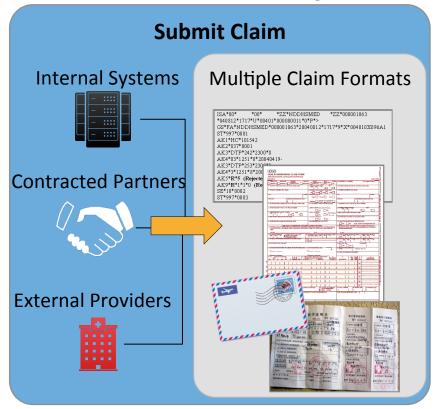
Adjudicate Claim

Health plan specifics
Authorizations to perform care
Care rendered
Deductibles, accumulations, and
out-of-pocket
Other coverage (e.g., spouse)

...AND A LOT MORE COMPLEXITY

Pay Claim

Claims Adjudication: The Reality



Process Claim

Validation

Format Validation
Logic Validation
Scan Links
Acknowledgements
Initial focus area

Adjudication



Pay Claim







2015 Policy Change

All claims must route through National EDI for input into adjudication system

Before

- National EDI only handles external claims
- No visibility tracking claims across systems
- Transfers within KP and with external vendors
- No easy direct reconciliation/tracking system
- Potential for unhappy providers and members
- Risk of federal penalties for late processing

After

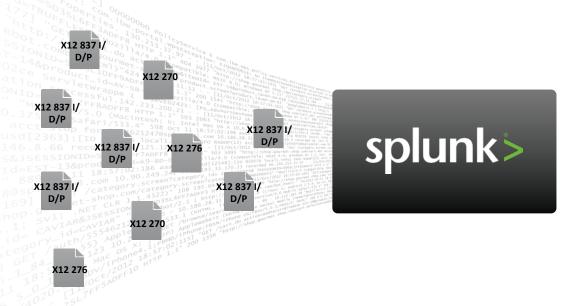
- National EDI handles ALL claims
- Must implement enterprise-wide claims adjudication system
- Volume jumps 2,250%
- YIKES!!!

Challenges

- Need visibility at claim and file level:
 - Where is it?
 - Why is it there?
 - Is it late?
 - Excessive "bad" claims in the file?
- Need alerts for "stuck" claims/files to avoid penalties for delays
- No knowledge on log file content
- No time for huge development effort or impossible changes

Solution: Feed Text Files into Splunk

Formatted text files



Questions Answered

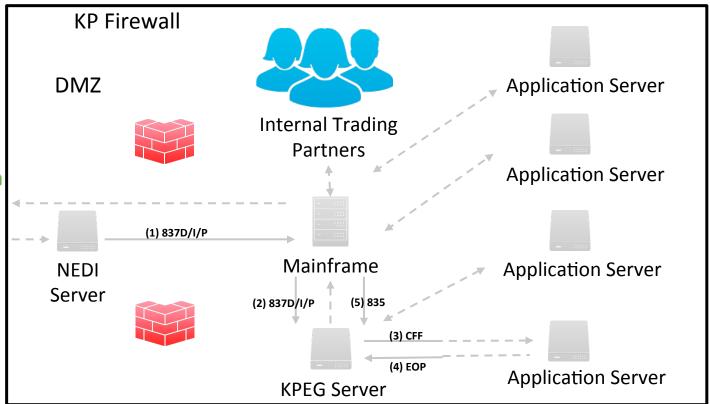
Location of every claim and its file location

Where and when claim was processed

Claims processing slowly

Additional processing metrics

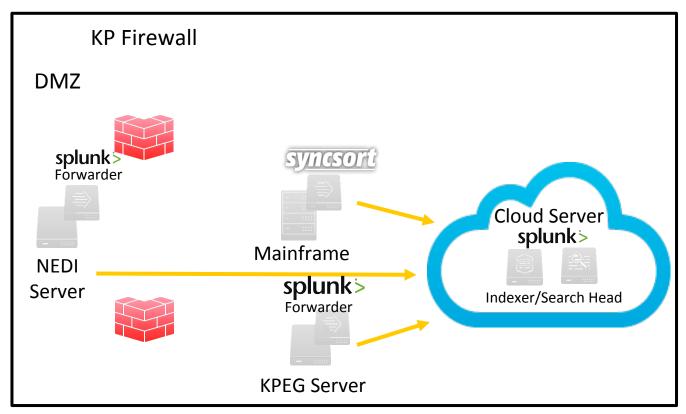
Existing Architecture





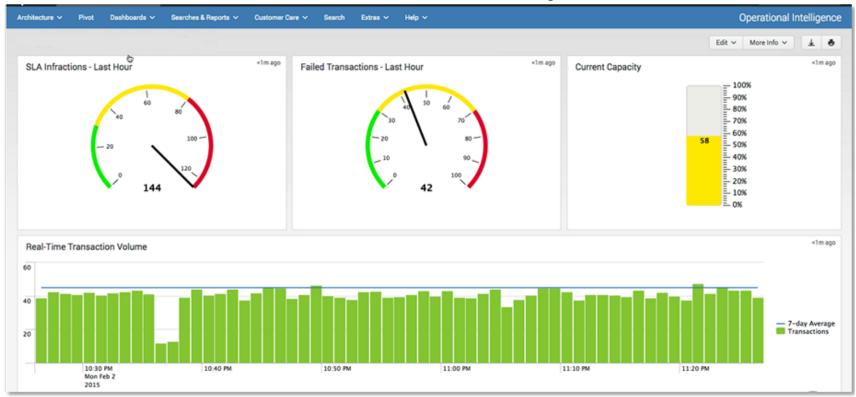
External Trading Partners

Splunk Placement

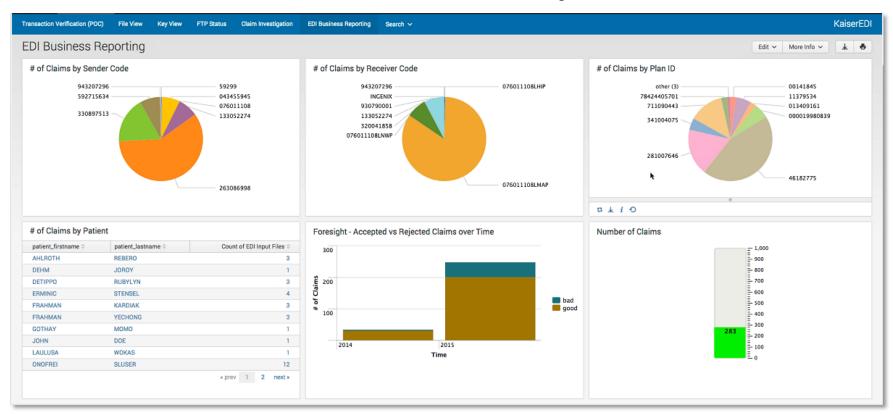


- 1. X12 Files uploaded to Splunk Indexer and displayed online
- 2. Queries for file counts for each file type received
- Alerts created for missing files and lengthy processing

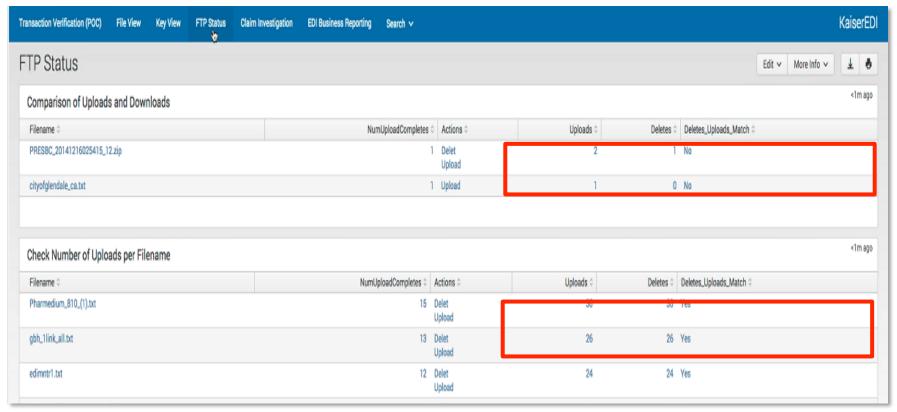
Dashboard Snapshot



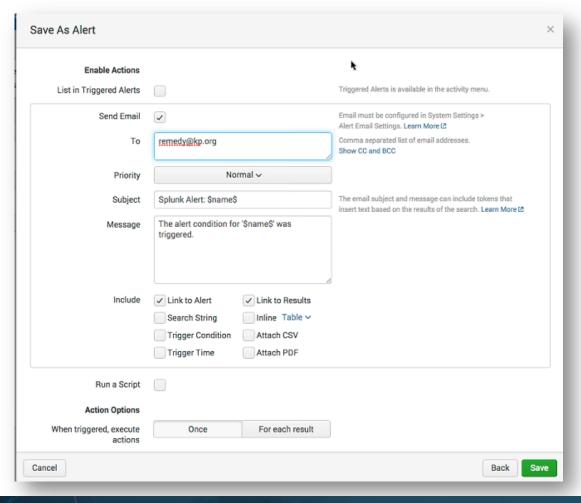
Dashboard Snapshot



Tracking Claims in Files



Alerts Create Service Ticket



What's Next?

- Improved dashboard
 - Add Biggest Offenders list
 - Create Tivoli tickets/ emails
- Extend further along the claims lifecycle
 - Scan/OCR intake
 - Send/return from adjudicator
 - Financial transactions and EOB statements
- Business ops and technical ops dashboards

Best Practices

- Follow known good development practices:
 - SMEs
 - Use cases
 - Early IT collaboration
- Security at the beginning (HIPAA PHI)
- Include machine and app name
- Use UTC
- POC and iterate
- More Data!
- Share the data
 - Fraud and Abuse
 - Security

Summary and Follow-up

- Summary
- Contact Info:

Stuart Sands Stuart.H.Sands@KP.org

