Monitoring the order fulfilment process within an automated warehouse using Splunk Business Flow

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Your Speaker

Jamie Frost

Business Improvement Analyst

15 years working automated intra logistics

5+ years working with Splunk

Second year at .Conf

TGW Logistics Group

TGW Logistics Group is a leading global systems provider of highly dynamic, automated and turnkey logistics solutions. Since 1969 the company, which has been owned by the TGW Future Private Foundation since 2004

More than 3300 employees worldwide

Generated sales of 713 million euros in 2017/2018

10% of the company's revenue are used for charitable projects of the Future Wings Foundation.

Prevent an issue becoming a problem in an intralogistics warehousing.

Monitoring the order fulfilment process using Splunk Business Flow.

How Splunk Business flow can identify the root cause efficiently…

Intralogistics Warehouse

What is it?

Picking workstations

Automatic Storage and Retrieval Systems

Transport conveyor

Monitoring The Order Fulfilment Process

Identify issues as soon as possible and investigate

Monitor journey steps with Splunk alerts

Identify orders that could have an issue

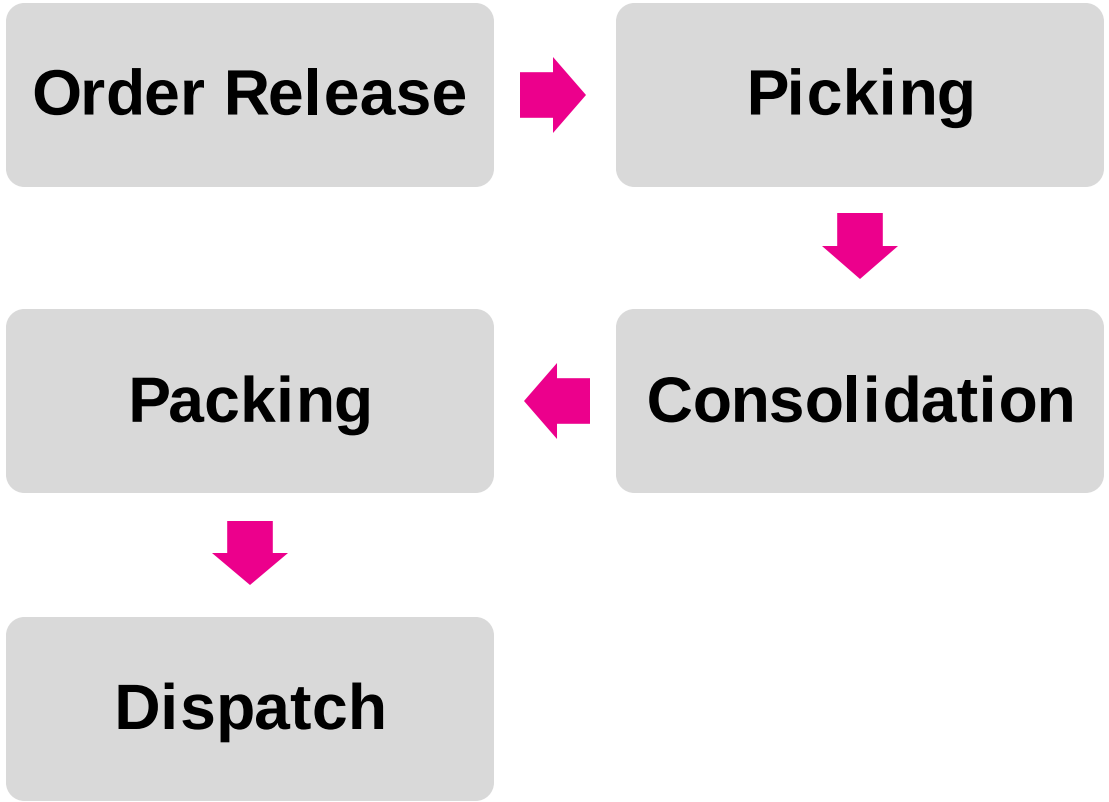
Investigate the cause

- Use journey filters
- Isolate common attribute or attributes

Limit the impact

- Using attribute filters
- Find all effected orders
- Redirect orders using the warehouse control system

Correct the issue



Demo

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Summary

Action summary of demonstration

Time period

Select time period to view 3 hr window

Start time filter

Journeys started 3 hours previously 07:00 – 08:00

Step filters

Include ‘picking started’ and exclude ‘finished picking’

Analysis

Isolate common attributes

Investigate impact

Identify all journeys with the same attribute

Next steps

"We call you before you call us."

Operation control centre

- Live system monitoring
- Automated alerts
- Quick and simple investigation
- Hot line support

Tote movement history (demo)

What's Next?

Future functionality I'd like to see

On screen alerts

Visual ques

Sub processes

Additional filters

- Step duration
- Step count

Real time investigation

Using Splunk Business Flow as a real time investigation tool

1. Not just post event analysis
2. Real time investigation
3. Think about the scenarios you could want to investigate
4. Group and format events to create the steps you need
5. Enrich your journeys with attributes
6. Filters sets

Fix it before it breaks

Q&A

Jamie Frost | Business Improvement Analyst

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