

PAXAFE

Logistics Orchestration & Decision Intelligence Platform

Target Industries

Life Sciences, Produce, LSP / 3PL, Sensor, Retail (F&B)

Customer Pain Point

Managing transportation & logistics for temperature-sensitive products is hard and expensive. Each year, \$800+ billion worth of perishable food, medicines, and consumer goods are wasted due to temperature management failures in transit & storage. Enterprises invest hundreds of billions annually in 3PL services, consulting, packaging, sensors and temperature control solutions aiming to reduce losses through improved visibility. Despite these growing investments into data loggers, TMS / visibility aggregators & IoT sensors, product loss ratios continue to rise while enterprises remain underwhelmed with a lack of actionable data.

Solution

[PAXAFE](#) is a logistics orchestration & decision intelligence platform that helps cold chain manufacturers and Logistics Service Providers (LSP) reduce monitoring & intervention costs [for IoT-enabled visibility], digitize & automate Lane Validation and Lane Risk Assessments (LRA), and incorporate prescriptive recommendation into the real-time visibility network.

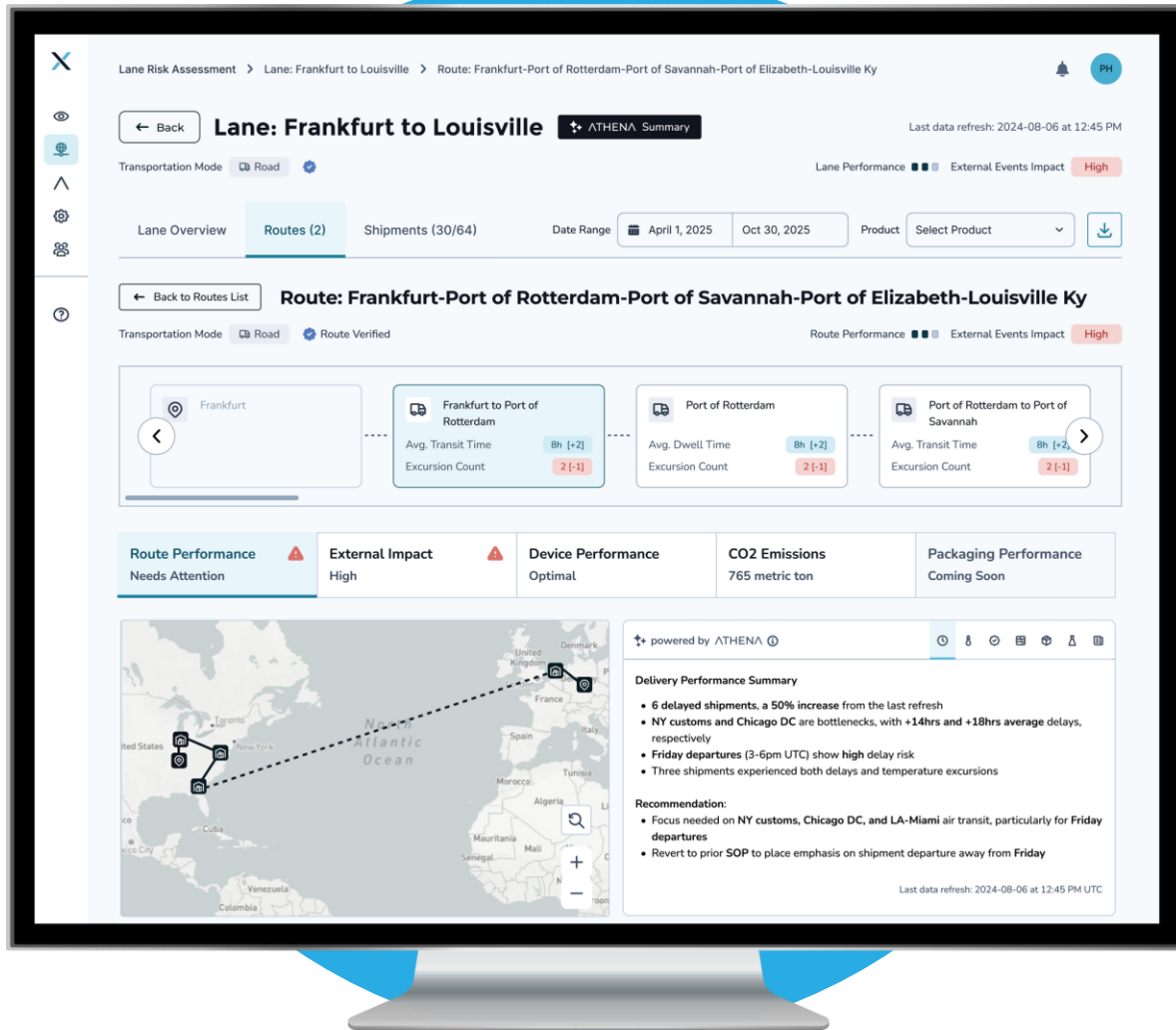
Customer Benefit

Acting as the trust layer for temperature-controlled logistics networks whose mission is to drive towards zero waste in cold chain transportation, PAXAFE accelerates and improves logistics planning decisions (SOP, routing, packaging, carrier, mode of transport, IoT) while automating tactical monitoring of critical day to day shipments.

PAXAFE customers benefit from putting their cold chain operations on auto-pilot – accelerated and optimized decision-making & instant tradeoff analysis – powered by gen-AI -- without the costly dashboards, consultants and analysis paralysis

Leadership

Ilya Preston CEO, Ashok Seetharam CTO, Brian Shultz CRO





You're 4 steps from validating your first lane

Prerequisite Form

- Product Details >
- Shipping Details >
- Additional Requirements >
- Review Summary

Lane Name

BELGIUM - KENTUCKY, USA Edit

Product Information

Product Type Semi-Finished Finished

Product Name Vaccine

Temperature Range + Add New

Frozen ⋮

-40 to -15 °C 0h Cumulative

Shipping Solution

SkyCell ⋮

1500C/CRT 120h Passive Pallet

Standard Requirements

Need Help?

For any questions, please contact us at support@paxafe.com

- Previous
- Save as Draft
- Submit

Properties

Status Prerequisite In Progress

Created By Phillip

Contributor Add Contributor

Forwarder/3PL Add Forwarder/3PL

Shipping Details

Origin

Moderna Belgium
Oupeye, Belgium

Primary +17865434565

John Smith
Contact for POD Moderna johnsmith@modernaatx.com

Additional Facility: New Wade (Yusen): Rue Camille Hubert 24, Les Isnes (5032)

Destination

UPS Inc
5071 S Preston Hwy, Shepherdsville KY 40165





Lanes (6)

Last data refresh: 2024-08-06 at 12:45 PM UTC

LANE NAME ▾

STATUS ▾

Belgium - Kentucky, USA

Prerequisite submitted

10 ▾

items per page

< 1 >

Belgium - Kentucky, USA

Add Lane Details ▾



Upload Document

Add Lane Details Manually

Product

Type

Finished

Name

Vaccine

Temperature Requirements

Frozen

-35 to -15 °C

120h

Cumulative

Temperature Monitoring

Sensitech | TempTale® GEO Ultra

Passive

5 min

60 min

Elpro | LIBERO Gx

Real-time

5 min

Shipping Solution

SkyCell | 1500C

D-ACT

120h

Other

Regulations

N/A

Security

N/A

Origin

Moderna Belgium

Oupeye, Belgium

+17865434565

Primary

John Smith

+17865434565





Lanes (6)

Last data refresh: 2024-08-06 at 12:45 PM UTC



LANE NAME ▾

Belgium - Kentucky, USA

10 ▾ items per page

Belgium - Kentucky, USA

Add Lane Details ▾

Upload Lane Documents (DRA/LRA/SOP) ✕

i You will be able to review the uploaded information in the next step

Drag and Drop File Here

or

[Upload Document](#)

[Submit](#) [Cancel](#)

Upload Document

Add Lane Details Manually

Finished

Line

35 to -15 °C 120h Cumulative

Passive 5 min 60 min

Real-time 5 min

ACT 120h

Oupeye, Belgium +17865434565

Primary
John Smith +17865434565





Submit DRA File

Air Mode

Add Leg

- Belgium
- Pre Carriage
- BRU
- Air Segment Selected**
- ORD
- Post Carriage
- Kentucky, USA

Air Segment 1h ISO 9001 CEIV GDP Unknown Edit

Responsible Party: UPS

Contact: **John Smith**
 +32 10 85 6584 | john.smith@modernaatx.c... +4

Temperature Set Point: -20°C

Planned Flight Schedules [BRU - IAD] Air France Preferred Carrier

Air France	AG 687609	BRU	17:00 CEST	24h 59min	Nonstop	ORD	00:40 AST +1	M T W T F S S
Boeing 777 Passenger								
Air France	AG 687609	BRU	17:00 CEST	24h 59min	Nonstop	ORD	00:40 AST +1	M T W T F S S
Boeing 777 Passenger								

Instructions Edit

- Freight to be recovered from designated warehouse area and transported to outbound aircraft. Aircraft Departs origin.
- Freight to be recovered from inbound aircraft and transported to airline's warehouse.

Properties

Status: Ready for Approval

Created By: Phillip

Contributor: Phillip

Forwarder/3PL: UPS

Preferred Route: BRU-ORD

Incoterms: DAP

Backup Route: 25 routes

Primary Carrier: UPS

Lane Requirements

Product: _____

Type: Semi-Finished Finished

Name: Vaccine API

Temperature Requirements

- Chilled: 2 to 8 °C 120h Cumul...
- CRT-A: 18 to 25 °C 120h Cum...
- CRT-B: 2 to 25 °C 120h Cum...

Temperature Monitoring

- Sensitech | TempTale® GEO X: Passive 5 min
- Sensitech | TempTale® GEO U...: Real-time 5 min 60 min

Shipping Solution

- SkyCell | 1500C: D-ACT 120h





← Back

Lane: Belgium - Kentucky, USA

Last data refresh: 2024-08-06 at 12:45 PM UTC

Lane SOP

Routes

Risk Assessment

Lane Configuration

Submit DRA File

Air Mode

Add Leg

Belgium

Pre Carriage

BRU

Air Segment

ORD Selected

Post Carriage

Kentucky, USA

Destination Airport

Edit

Tarmac & Loading 1h Unknown

Responsible Party



Contact

John Smith

+32 10 85 6584 | John.smith@modernaatx.c... +4

Tarmac Protection

Not Available

Instructions

Freight to be recovered from designated warehouse area and transported to outbound aircraft. Aircraft Departs origin.

Edit

Storage 1h

ISO 9001 CEIV GDP Unknown

Address

Chicago O'Hare International Airport, ORD

Active Temp. Monitoring

Battery Replacement

Re-ice Capabilities

Responsible Party



Contact

John Smith

+32 10 85 6584 | john.smith@modernaatx.c... +4

Storage Temperature

-35 to -15 °C

Instructions

Freight to be transferred and stored in designated location within the warehouse at destination carrier.

Edit

Properties

Status

Ready for Approval

Created By

Phillip

Contributor

Phillip

Forwarder/3PL

UPS

Preferred Route

BRU-ORD

Incoterms

DAP

Backup Route

25 routes

Primary Carrier

UPS

Lane Requirements

Product

Type

Semi-Finished Finished

Name

Vaccine API

Temperature Requirements

Chilled

2 to 8 °C 120h Cumu...

CRT-A

18 to 25 °C 120h Cum...

CRT-B

2 to 25 °C 120h Cum...

Temperature Monitoring

Sensitech | TempTale® GEO X

Passive 5 min

Sensitech | TempTale® GEO U...

Real-time 5 min 60 min

Shipping Solution

SkyCell | 1500C

D-ACT 120h



← Back

Lane: Belgium - Kentucky, USA

Last data refresh: 2024-08-06 at 12:45 PM UTC

Lane SOP

Routes

Risk Assessment

Lane Configuration

Submit DRA File

Air Mode

Add Leg

Belgium

Pre Carriage

BRU

Air Segment

ORD

Post Carriage

Kentucky, USA Selected

Destination

Edit

Delivery

Address

GlaxoSmithKline

GlaxoSmithKline, Marietta, USA

Responsible Party

UPS

Contact

John Smith

+32 10 85 6584

John.smith@modernaatx.com

+4

Instructions

Upon delivery to consignee, import forwarder to obtain written POD.

Edit

Properties

Status

Ready for Approval

Created By

Phillip

Contributor

Phillip

Forwarder/3PL

UPS

Preferred Route

BRU-ORD

Incoterms

DAP

Backup Route

25 routes

Primary Carrier

UPS

Lane Requirements

Product

Type

Semi-Finished Finished

Name

Vaccine API

Temperature Requirements

Chilled

2 to 8 °C 120h Cumul...

CRT-A

18 to 25 °C 120h Cum...

CRT-B

2 to 25 °C 120h Cum...

Temperature Monitoring

Sensitech | TempTale® GEO X

Passive 5 min

Sensitech | TempTale® GEO U...

Real-time 5 min 60 min

Shipping Solution

SkyCell | 1500C

D-ACT 120h



Lanes (6)

Last data refresh: 2024-08-06 at 12:45 PM UTC



LANE NAME ▾

STATUS ▾

Les Isnes, Belgium - Marietta, USA

Prerequisite submitted

Brussels, Belgium - Mexico City, Mexico

Review by LSP

Belgium - Kentucky, USA

Ready for Risk Assessment

Amsterdam, Netherlands - Louisville, USA

Ready for Approval

Louisville, USA - Ecuador

Approved

Gembloux - Mexico

Draft

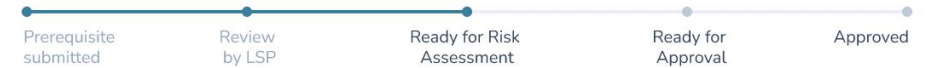
10 ▾

items per page

< 1 >

Belgium - Kentucky, USA

Lane Details



Product

Type: Finished
Name: Vaccine

Temperature Requirements

Frozen: -35 to -15 °C, 120h, Cumulative

Temperature Monitoring

Sensitech | TempTale® GEO Ultra: Passive (5 min, 60 min)
Elpro | LIBERO Gx: Real-time (5 min)

Shipping Solution

SkyCell | 1500C: D-ACT, 120h

Other

Regulations: N/A
Security: N/A

Origin

Moderna Belgium
Oupeye, Belgium +17865434565

Primary
John Smith +17865434565





Last data refresh: 2024-08-06 at 12:45 PM UTC

← Back

Lane: Belgium - Kentucky, USA

Lane SOP

Routes

Risk Assessment

Lane Configuration

Save As

Approve

BRU-FRA-ORD

Preferred Route



Air Mode



Route Summary

Belgium

Pre Carriage

BRU

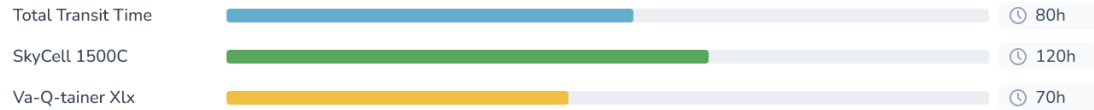
Air Segment

ORD

Post Carriage

Kentucky, USA

Planned Duration



Show More

Forwarder/3PL

Name: UPS

Packaging

SkyCell	SkyCell	+3
120h	120h	
D-ACT	D-ACT	

Carrier

Primary: UPS

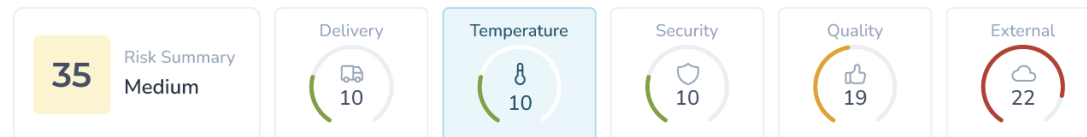
Secondary: 2 carriers

Temp. Monitoring

Sensitech	EL Pro	+2
Passive	Realtime	
5 m	5m, 60m	

Route Risk Summary

PAXAFE PHARMA



Properties

Status: Ready for Approval

Created By: Phillip

Contributor: Phillip

Forwarder/3PL: UPS

Preferred Route: BRU-ORD

Incoterms: DAP

Backup Route: 25 routes

Primary Carrier: UPS

Lane Requirements

Product

Type: Semi-Finished, Finished

Name: Vaccine, API

Temperature Requirements

- Chilled: 2 to 8 °C, 120h, Cumulative
- CRT-A: 18 to 25 °C, 120h, Cumulative
- CRT-B: 2 to 25 °C, 120h, Cumulative

Temperature Monitoring

- Sensitech | TempTale® GEO X: Passive, 5 min
- Sensitech | TempTale® GEO U...: Real-time, 5 min, 60 min

Shipping Solution

- SkyCell | 1500C: D-ACT, 120h
- SkyCell | 2500C: D-ACT, 120h



Lane SOP

Routes

Risk Assessment

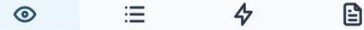
Lane Configuration

Save As

Approve

BRU-FRA-ORD

Preferred Route



Air Mode

Route Summary

Belgium

Pre Carriage

BRU

Air Segment

ORD

Post Carriage

Kentucky, USA

Forwarder/3PL

Name UPS

Packaging

SkyCell 120h D-ACT

Carrier

Primary UPS
Secondary 2 carriers

Temp. Monitoring

Sensitech EL Pro
Passive Realtime
5m 60m

Route Risk Summary

PAXAFE PHARMA



Temperature Score

Table with 4 columns: Temperature Monitoring, Container, Temp. Controlled Envi..., Ambient Temperature

Properties

Properties table with rows: Status, Created By, Contributor, Forwarder/3PL, Preferred Route, Incoterms, Backup Route, Primary Carrier

Lane Requirements

Lane Requirements table with sections: Product, Type, Name, Temperature Requirements, Temperature Monitoring, Shipping Solution



Last data refresh: 2024-08-06 at 12:45 PM UTC

← Back

Lane: Belgium - Kentucky, USA

Lane SOP

Routes

Risk Assessment

Lane Configuration

Save As

Approve

BRU-FRA-ORD

Preferred Route



Air Mode



Route Summary

Belgium

Pre Carriage

BRU

Air Segment Selected

ORD

Post Carriage

Kentucky, USA

Planned Duration

Planned duration: 24 hrs



Packaging Thermal Life Impact



Show More

Air Segment 1h

ISO 9001 CEIV GDP Unknown

Responsible Party

UPS

Contact

John Smith

+32 10 85 6584 john.smith@modernaatx.c... +4

Temperature Set Point

-20°C

Planned Flight Schedules [BRU - IAD]

Air France Preferred Carrier

Air France	AG 687609	BRU	17:00 CEST	24h 59min	Nonstop	ORD	00:40 AST +1	M T W T F S S
Boeing 777 Passenger								

Air France	AG 687609	BRU	17:00 CEST	24h 59min	Nonstop	ORD	00:40 AST +1	M T W T F S S
Boeing 777 Passenger								

Properties

Status	Ready for Approval
Created By	Phillip
Contributor	Phillip
Forwarder/3PL	UPS
Preferred Route	BRU-ORD
Incoterms	DAP
Backup Route	25 routes
Primary Carrier	UPS

Lane Requirements

Product	
Type	Semi-Finished Finished
Name	Vaccine API

Temperature Requirements	
Chilled	2 to 8 °C 120h Cumul...
CRT-A	18 to 25 °C 120h Cum...
CRT-B	2 to 25 °C 120h Cum...

Temperature Monitoring	
Sensitech TempTale® GEO X	Passive 5 min
Sensitech TempTale® GEO U...	Real-time 5 min 60 min

Shipping Solution	
SkyCell 1500C	D-ACT 120h



Last data refresh: 2024-08-06 at 12:45 PM UTC

← Back

Lane: Belgium - Kentucky, USA

- Lane SOP
- Routes**
- Risk Assessment
- Lane Configuration

Possible Routes

Add Route ▾

Route	Date created	Length
BRU-ORD	2024-08-06 at 12:45 PM UTC 5 legs 2 carriers	
BRU-AMS-ORD	2024-08-06 at 12:45 PM UTC 8 legs 2 carriers	
BRU-LUX-EWR	2024-08-06 at 12:45 PM UTC 8 legs 2 carriers	
BRU-EWR	2024-08-06 at 12:45 PM UTC 5 legs 2 carriers	

Properties

- Status: Ready for Approval
- Created By: Phillip
- Contributor: Phillip
- Forwarder/3PL: UPS
- Preferred Route: BRU-ORD
- Incoterms: DAP
- Backup Route: ↔ 25 routes
- Primary Carrier: UPS

Lane Requirements

- Product: _____
- Type: Finished
- Name: Vaccine
- Temperature Requirements: _____
- Frozen -35 to -15 °C 120h C...
- [Show More](#)

Version 1.0

Version History

- Created By: Phillip





Lane SOP

Routes

Risk Assessment

Lane Configuration

Air Mode



Route Summary

Belgium

Pre Carriage

BRU

Air Segment

ORD

Post Carriage

Kentucky, USA

4 carriers

2 carriers

2 carriers

2 carriers

BRU-ORD

Carriers

UPS Air France

Route Assessment Details

PAXAFE PHARMA

What is the lane total duration?

Answer

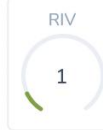
Is higher that 100% of total duration

Likelihood

Low

Mitigation Actions

N/A



What is the transportation grade used ?

Answer

Pharmagrade

Likelihood

Low

Mitigation Actions

N/A



Is lane associated to a preferred airline company ?

Answer

Yes

Likelihood

Low

Mitigation Actions

N/A



Properties

Status

Ready for Approval

Created By

Phillip

Contributor

Phillip

Forwarder/3PL

UPS

Preferred Route

BRU-ORD

Incoterms

DAP

Backup Route

25 routes

Primary Carrier

UPS

Lane Requirements

Product

Type

Semi-Finished Finished

Name

Vaccine API

Temperature Requirements

Chilled

2 to 8 °C 120h Cumu...

CRT-A

18 to 25 °C 120h Cum...

CRT-B

2 to 25 °C 120h Cum...

Temperature Monitoring

Sensitech | TempTale® GEO X

Passive 5 min

Sensitech | TempTale® GEO U...

Real-time 5 min 60 min

Shipping Solution

SkyCell | 1500C

D-ACT 120h



Last data refresh: 2024-08-06 at 12:45 PM UTC

← Back

Lane: Belgium - Kentucky, USA

Lane SOP

Routes

Risk Assessment

Lane Configuration

Save As

Approve

BRU-FRA-ORD

Preferred Route



Air Mode



Route Summary

Belgium

Pre Carriage

BRU

Air Segment

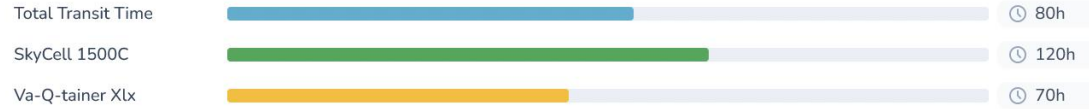
ORD

Post Carriage

Kentucky, USA

Route Summary

Planned Duration



Show More

Expand All

Collapse All

Origin

Controlled 1h

Pickup Location 1h

Controlled

Address

Moderna Belgium
Oupeye, Belgium

Responsible Party



Contact

John Smith

+32 10 85 6584 john.smith@modernaatx.c... +4

Temperature Set Point

-20°C

Instructions

Vehicle arrives at shipper location. Driver verifies that freight pieces correspond with shipment details, parcel IDs and ensures correct temperature setting of the pick-up truck. Freight is loaded into the vehicle ensuring freight is secured to avoid damage. Truck departs shipper location to export forwarder warehouse.

Other

Regulations N/A

Security N/A

Origin

DHL Global Forwarding IAD

Rue Camille Hubert ,22. 5032, Belgium, Gembloux (Les Isnes) +17865434565

Primary

BE BRU GSK

Contact for POD Glaxo

+17865434565

bebrugsk@mail.com

Destination

DHL Global Forwarding IAD

Rue Camille Hubert ,22. 5032, Belgium, Gembloux (Les Isnes) +17865434565

Primary

BE BRU GSK

Contact for POD Glaxo

+17865434565

bebrugsk@mail.com

Show Less

Version 1.0

Version History

Created By

Phillip

Contributor

Phillip

Date created

2024-08-06 at 12:45 PM UTC

Date submitted

2024-08-06 at 12:45 PM UTC



Lanes (4)

Origin

Destination

Product

ORIGIN	DESTINATION	PERFORMANCE	EXTERNAL IMPACT
Belgium	Kentucky, USA	<div style="width: 25%;"></div>	High
Belgium	Japan	<div style="width: 25%;"></div>	No Events
Belgium	Taiwan	<div style="width: 25%;"></div>	No Events
Belgium	Kentucky, USA...	<div style="width: 25%;"></div>	High

Belgium to Taiwan

Lane Details

- Transp. Mode: Multimode
- Routes: 4
- Shipment Count: 40
- Delayed Shipment Count: 4
- Shipment Count with Excursions: 5

Show More

powered by ATHENA

Delivery Performance Last data refresh: 2024-11-09 at 12:00 AM UTC

- Recommendation**
- Upload Standard Operating Procedures (SOPs) and Distribution Risk Assessments (DRAs) into platform for more accurate recommendations
 - Investigate Belgium-Brussels Airport (BRU)-Dubai Airport (DXB)-Taiwan route as a low confidence route that had **12 excursion pings**
 - Explore modifying shipment departure times to mornings or earlier in the day (before **3 PM**)

External Events (6)

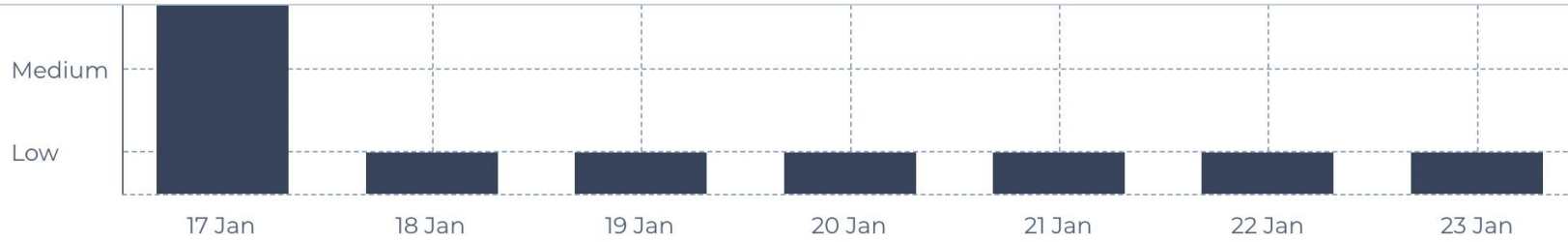
EVENT TYPE	HIGH
Geopolitical (1)	H --
Weather (5)	H 1 event

External Events Feed

- High** Extreme Cold Watch issued for Wilmington OH
- Medium** Winter Storm Watch issued for Upton NY
- Medium** Winter Storm Watch issued for Upton NY
- Weather starting: Today

Weather Event Details: Extreme Cold Watch

Event Severity **High** Last data refresh: Today by 22:08



WEATHER FORECAST

17 Jan	18 Jan	19 Jan	20 Jan	21 Jan	22 Jan
H 8.89°C L 4.44°C	H 5.56°C L -4.44°C	H -3.33°C L -13.89°C	H -9.44°C L -11.67°C	H -3.89°C L -12.78°C	H -3.33°C L -6.11°C
Wind Avg. Speed: 8km/h	Wind Avg. Speed: 8km/h	Wind Avg. Speed: 8km/h	Wind Avg. Speed: 7km/h	Wind Avg. Speed: 7km/h	Wind Avg. Speed: 5km/h
Precipitation: Rain (0h)	Precipitation: Rain (0.3h)	Precipitation: Rain (0h)	Precipitation: Rain (0h)	Precipitation: Rain (0h)	Precipitation: Rain (0h)

Routes Impacted (1)

Other Lanes Impacted (0)

High Belgium-Brussels Airport (BRU)-Kentucky, USA
Impacted Waypoints/Segments: 1 | Review

- Belgium to Brussels Airport: No Events
- Brussels Airport (BRU): No Events
- Brussels Airport (BRU) to Kentucky, USA: **High**