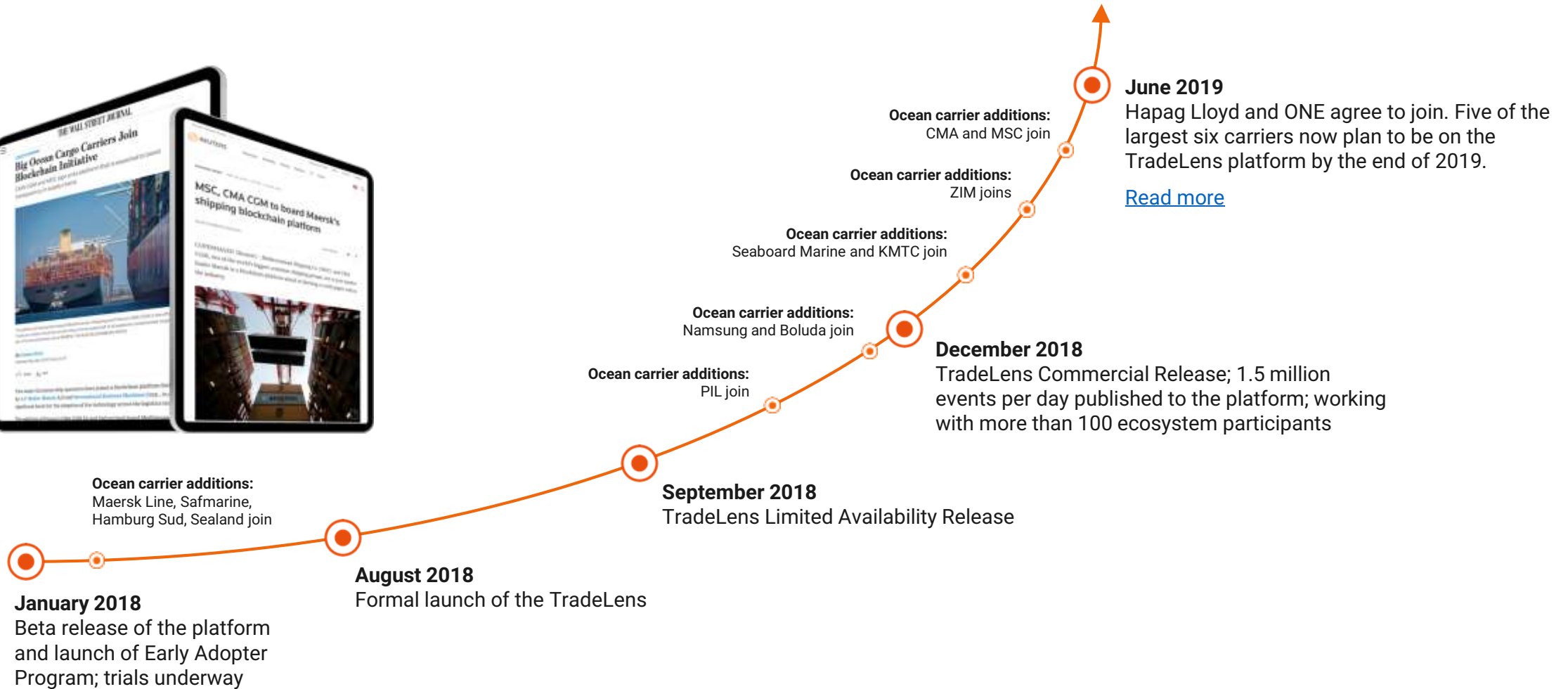
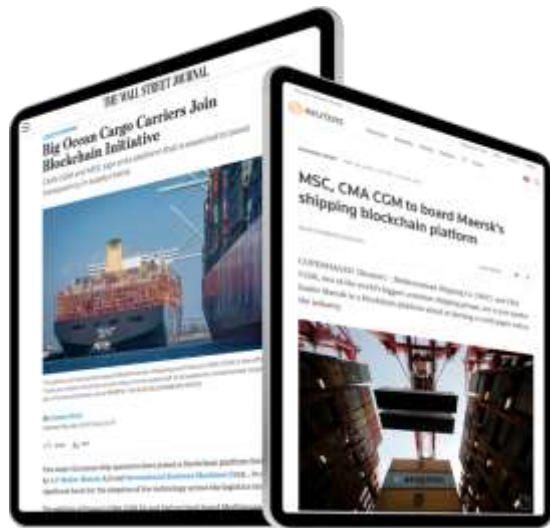


TRADELENS OVERVIEW

SEPTEMBER 2019

OUR JOURNEY



AN EXAMPLE FROM OUR RESEARCH ILLUSTRATES THE INEFFICIENCIES

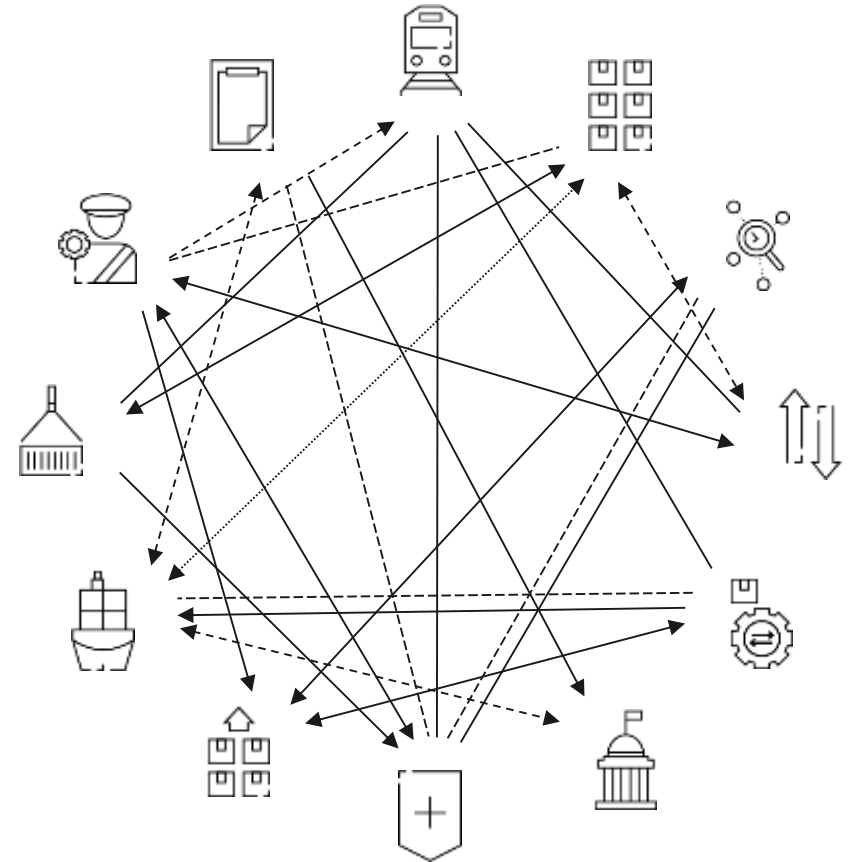
A single shipment of avocados from Mombasa to Rotterdam involves **30 actors, 100+ people, and 200 information exchanges**

- + Inconsistent information across organizational boundaries and blind spots throughout the supply chain hinder the efficient flow of goods
- + Complex, cumbersome, and costly peer-to-peer messaging
- + Manual, time-consuming, paper-based processes
- + Risk assessments often lack sufficient information; clearance processes subject to fraud



GLOBAL TRADE IS HIGHLY INEFFICIENT AND BURDENED BY PAPER-BASED PROCESSES

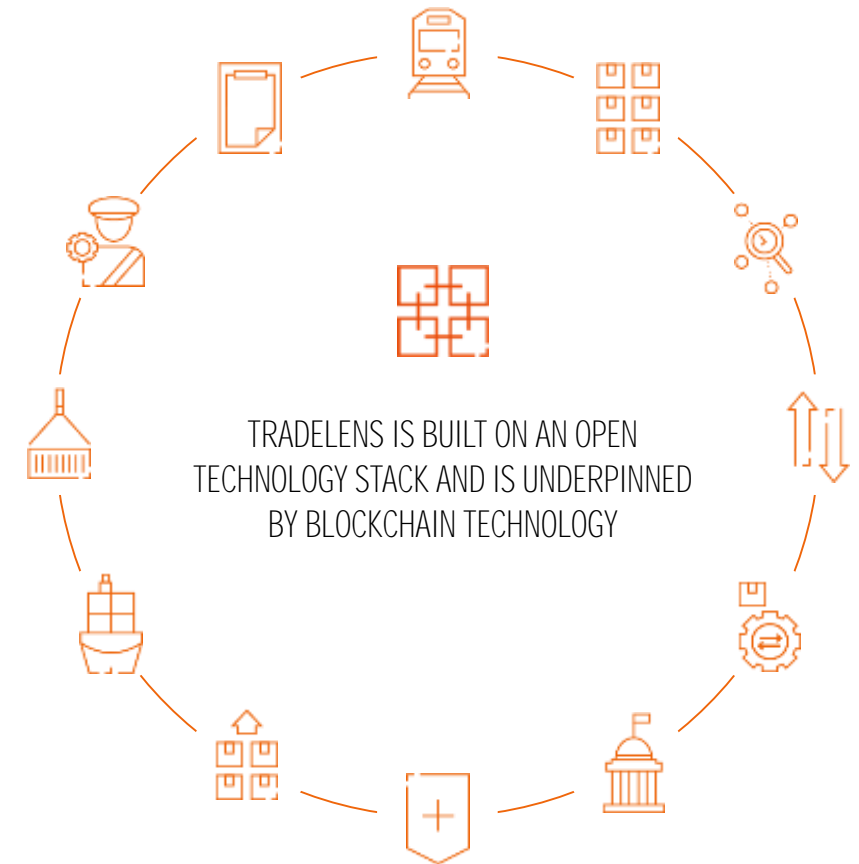
- + Data trapped in organizational silos
- + Manual, time-consuming, paper-based processes
- + Clearance takes too long and is often subject to fraud
- + High costs and poor customer service

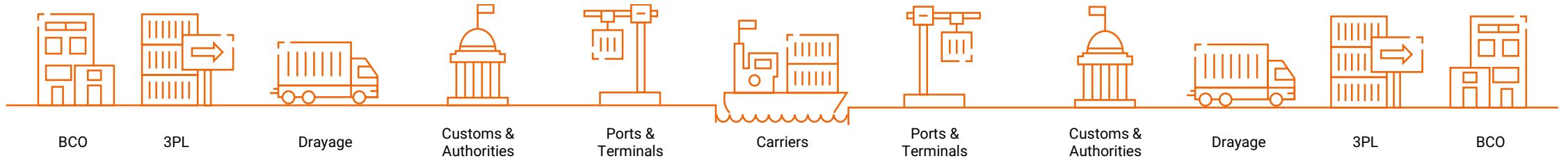


OUR MISSION

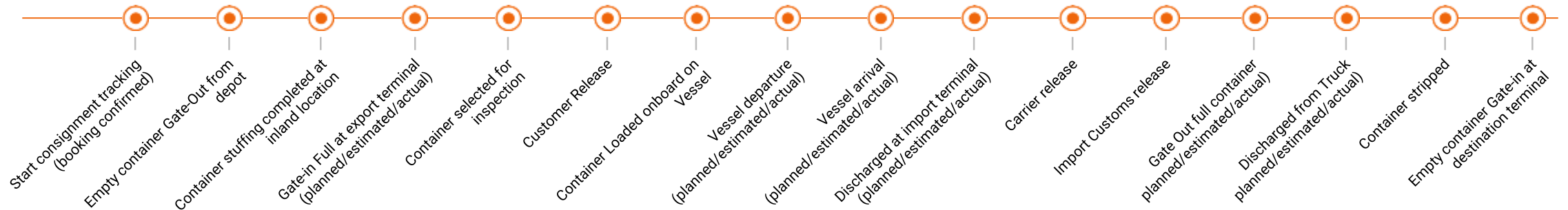
DIGITIZE THE GLOBAL SUPPLY CHAIN

- + **Connect the ecosystem**
- + **Drive true information sharing**
- + **Foster collaboration and trust**
- + **Spur innovation**





SHIPPING MILESTONES AND SHIPMENT DATA*



STRUCTURED AND UNSTRUCTURED DOCUMENTS*



TRADELENS BLOCKCHAIN BUSINESS NETWORK



* Note: representative sample only of the data on the platform

THE TRADELENS PORT AND TERMINAL NETWORK

- + Coverage across 6 continents
- + 61 ports and terminals directly integrated in to TradeLens
- + Data from up to 600 ports and terminals captured by existing TradeLens members

- Ports and terminals directly integrated with TradeLens
- Ports and terminals contributing data via carriers to TradeLens

Interactive map of TradeLens port and terminal network:

<https://www.tradelens.com/ecosystem/>



PORTS AND TERMINALS

- Live: The Network Member is connected to the Platform and providing data
- In Process: The Network Member engaged and/or integration is in process

Terminal Location	Operator
○ Algeciras, Spain	Port of Algeciras
● Algeciras, Spain	APM Terminals
○ Antofagasta, Chile	SAAM
○ An Ping, Taiwan	MPB
● Apapa, Nigeria	APM Terminals
● Auckland, New Zealand	PortConnect
● Avonmouth, UK	MCP
● Bahrain	APM Terminals
○ Barcelona, Spain	Port of Barcelona
● Bilbao, Spain	Port of Bilbao
● Brisbane, Australia	Patrick Terminals
● Buenos Aires, Argentina	APM Terminals
○ Busan, South Korea	Port of Busan
● Callao, Peru	APM Terminals
● Cotonou, Benin	APM Terminals
○ Dahej, India	Adani Ports
○ Dharmaj, India	Adani Ports
○ Elizabeth, NJ, USA	APM Terminals
○ Ennore, India	Adani Ports
● Felixstowe, UK	MCP
● Fremantle, Australia	Patrick Terminals
○ Gavle, Sweden	Yil Port Group
○ Gebze, Turkey	Yil Port Group
○ Gempport, Turkey	Yil Port Group
● Gothenburg, Sweden	APM Terminals
● Grangemouth, UK	MCP

Terminal Location	Operator
● Gunsan, South Korea	KL-NET
○ Hakata, Japan	MLC
● Halifax, Canada	Halterm Canada
○ Hazira, India	Adani Ports
● Hong Kong	Modern Terminals
● Houston, TX USA	Port of Houston
○ Hualien, Taiwan	MPB
● Hull, UK	MCP
● Immingham, UK	MCP
● Itajai, Brazil	APM Terminals
● Incheon, South Korea	KL-NET
○ Iquique, Chile	SAAM
● Izmir, Turkey	TIL
● Izmir, Turkey	APM Terminals
○ Kaohsiung, Taiwan	MPB
○ Kattupalli, India	Adani Ports
○ Keelung, Taiwan	MPB
○ Kobe, Japan	MLC
● Kwangyang, South Korea	KL-NET
● Lazaro, Mexico	APM Terminals
○ Leixoes, Portugal	Yil Port Group
○ Lillia, Estonia	Port of Tallinn
● Liverpool, UK	MCP
● Los Angeles, CA, USA	APM Terminals
● Maasvlakte II, Netherlands	APM Terminals
○ Manila, Philippines	ICTSI

Terminal Location	Operator
○ Marport, Turkey	Marport, Turkey
○ Marsaxlokk, Malta	Yil Port Group
● Melbourne, Australia	Patrick Terminals
○ Moji, Japan	MLC
● Montreal, Canada	MGTP
● Mobile, AL USA	APM Terminals
○ Moin, Costa Rica	APM Terminals
○ Mumbai, India	APM Terminals
○ Mundra, India	Adani Ports
○ Murrumbidgee, India	Adani Ports
○ Nagoya, Japan	MLC
● Napier, NZ	Napier Port Authority
○ Newcastle, UK	MCP
○ Norfolk, USA	Virginia International
● Onne, Nigeria	APM Terminals
○ Osaka, Japan	MLC
○ Oslo, Norway	Yil Port Group
● Philadelphia, PA USA	Packer Terminals
● Pipavav, India	APM Terminals
● Pecem, Brazil	APM Terminals
● Pyeongtaek, South Korea	KL-NET
● Poti, Georgia	APM Terminals
● Pohang, South Korea	KL-NET
● Pusan, South Korea	KL-NET
○ Rotaport, Turkey	Yil Port Group
● Rotterdam, Netherlands	APM Terminals

Terminal Location	Operator
● Said, Egypt	APM Terminals
○ Salalah, Oman	APM Terminals
○ Santo Antonio, Chile	SAAM
○ Santos, Brazil	APM Terminals
○ San Vicente, Chile	SAAM
● Singapore, Singapore	PSA
○ Solventas, Turkey	Yil Port Group
○ Stockholm Nord, Sweden	Yil Port Group
○ Suao, Taiwan	MPB
● Sydney, Australia	Patrick Terminals
○ Taichung, Taiwan	MPB
○ Taipei, Taiwan	MPB
● Tangier, Morocco	APM Terminals
● Tauranga, NZ	PortConnect
● Teesport, UK	MCP
○ Tuna, India	Adani Ports
● Ulsan, South Korea	KL-NET
● Valparaiso, Chile	TSP
● Valencia, Spain	Port of Valencia
○ Visakhapatnam, India	JM Baxi
○ Vizag, India	Adani Ports
○ Vizhinjam, India	Adani Ports
○ Yokohama, Japan	MLC

OCEAN CARRIERS

The ocean leg is at the heart of a container shipment journey, and as such carriers are the linchpin of the end-to-end information model by providing the booking that links all parts of the journey

Given the central role that carriers play today in safeguarding and distributing key information and documents across parties to a shipment, they are in a unique position to govern the blockchain network that will transform the industry's information sharing model

TradeLens is currently in partnership with 13 global ocean carriers*



DATA ON 60% OF
GLOBAL CONTAINER
SHIPPING VOLUME

BY YEAR END 2019

* CMA CGM and MSC have agreed to join TradeLens; final membership pending. Speak with your TradeLens representative for a report on current onboarding status.

3PL AND INTERMODAL

Third-party logistics providers (3PLs) and Freight Forwarders are central to the global movement of goods. As a solution designed for the entire supply chain industry, TradeLens is focused on maximizing the value of these participants by:

- + Improving collaboration with their customers by leveraging global standards and nuanced data control
- + Tangibly bringing together the commercial, documentary and operational elements of supply chain management.

Intermodal operators handling their customers' cargo want more visibility up and down the supply chain so they can act fast and lower the cost of every shipment.

TradeLens provides trustworthy data that helps them to predict and optimize equipment utilization, speed up pick-ups and drop-offs and reduce queueing times.



- This list of 3PLs and intermodal operators is not exhaustive. Speak with your TradeLens representative for a complete list, along with current onboarding status.

GOVERNMENT AUTHORITIES

Authorities and agents in charge of the import and export of goods want powerful new tools to help them simply and clearly identify risks and efficiently process huge volumes of trade that cross their borders.

TradeLens is working with authorities from 11 countries to deliver better information sharing, less manual paperwork, and easier connections to national single window platforms.



Abu Dhabi
Customs



Azerbaijan
Customs



Australia Home
Affairs



Bahrain
Customs



Canada
Customs



Dutch
Customs



Ghana/GCNET



Peru
Customs



Russian
Authorities



Saudi Arabia
Customs



Singapore
Customs

- This list of authorities is not exhaustive. Speak with your TradeLens representative for a complete list, along with current onboarding status.

QUESTIONS?



THANK YOU

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