

Asia-Pacific Model E-Port Network (APMEN)

亞太示範電子口岸網絡

Building the Foundation for The China (Shanghai) Free Trade Zone Cross-border Supply Chain Product Traceability Platform
為中國（上海）自貿區跨境供應鏈商品溯源平台項目打造基礎



About the Company 公司簡介

Asia-Pacific Model E-Port Network (APMEN) was launched at the 22nd APEC Economic Leaders Meeting (AELM) in November 2014, as a regional cooperation initiative to promote trade facilitation and supply chain connectivity. In August 2015, APMEN Operational Center (AOC) was set up in Shanghai. So far, APMEN has 19 members from 11 APEC economies.

2014年11月，亞太經合組織第22屆經濟領袖會議（AELM）成立亞太示範電子口岸網絡（APMEN），旨在促進貿易便利化和供應鏈聯通性的區域合作計畫。2015年8月，APMEN運營中心（AOC）在上海成立。至今APMEN有來自11個APEC經濟體的19個成員。

Background 背景

The China (Shanghai) Free Trade Zone (FTZ) Administration Bonded Area Bureau hopes to build a cross-border open data platform, which can connect the e-port, single window and supply chain information portal in Shanghai with those in other countries, therefore commissions Asia-Pacific Model E-Port Network (APMEN) to undertake a cross-border supply chain product traceability platform project in the FTZ.

Integrated with emerging technologies like big data and blockchain, the project involves setting up traceability data standards for products crossing the borders to realise import/export traceability data exchange. By mapping the supply chain service provider from the import/export region, the project targets to capture end-to-end cross-border product data, ultimately providing traceability data enquiry services for relevant enterprises, consumers and regulators in the region.

中國（上海）自由貿易區（自貿區）管理委員會保稅區管理局，冀建設一個連通上海電子口岸與各個國家電子口岸和單一窗口、以及各國供應鏈資訊平台的跨境開放資訊平台，遂委托亞太示範電子口岸網絡（APMEN）進行自貿區跨境供應鏈商品溯源平台項目。

該項目通過制定一套跨境供應鏈商品溯源數據的標準，結合大數據、區塊鏈等新興技術，實現進出口商品溯源數據交換，對接出口和進口地區的供應鏈服務機構，最終實現跨境商品端到端的完整資料搜集，並對區內相關企業、消費者和政府監管部門提供溯源信息查詢服務。

“GS1 global data standards support China to connect with the world, I hope once the project is executed, it will improve the efficiency of data connectivity between the members’ ports, enhancing cross-border supply chain traceability and thus the trade and economic growth.”

「GS1的國際編碼標準有助中國貿易銜接全球，我期望在項目正式推行後會改善各國口岸的數據聯通效率，增加跨境供應鏈可追溯性，促進貿易及經濟增長。」

Mr. David Zheng,
Senior Manager
資深經理 鄭珂威先生

GS1 standards used or solution (s) / service (s) applied

- Global Data Standard
- Electronic Product Code Information System (EPCIS)

應用的GS1標準或方案/服務

- 全球數據標準
- 產品電子代碼訊息服務 (EPCIS)



Solutions

APMEN invited GS1 Hong Kong (GS1 HK) to define and develop the cross-border traceability data standards for the FTZ. Based on the global GS1 systems of standards, the development work includes object identification standard, data capturing standard, data sharing standard (GS1 EPCIS), and standard implementation guideline. It covers details on the GS1 identification keys, basic and extended coding requirements, fitted for cross-border supply chain traceability application.

EPCIS is a global data standard that defines critical tracking events along the supply chain to describe the “WHAT, WHERE, WHEN, WHY”, and turns those events into data to be captured and shared across supply chain stakeholders.

The standards and guideline developed by GS1 HK become the foundation for platform development facilitating cross-border trade.

The project is expected to finish by the end of 2020.



Benefits

1. Provide a reliable standard foundation for the traceability data of cross-border import/export trade items
2. Achieve end-to-end data identification, capturing and sharing of cross-border goods
3. Able to offer traceability data enquiry services for all supply chain stakeholders in the future

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解決方案

APMEN招請香港貨品編碼協會(GS1 HK)協助，為自貿區去定義及開發一套跨境產品溯源資料的標準。開發工作以GS1標準系統為藍本，範圍涵蓋物件識別標準、數據採集標準、數據分享標準(GS1 EPCIS)，及編寫跨境供應鏈商品溯源指引。當中內容列出適合應用在跨境供應鏈溯源上的GS1識別碼、基本及擴展編碼要求等。

EPCIS是全球數據標準，為供應鏈發生的重要事件進行定義，主要從4方面描述：WHAT、WHERE、WHEN、WHY，並將這些事件變成數據，被收集及分享予供應鏈上各持份者。

GS1 HK開發的標準及指引會成為跨境貿易便利平台發展的基礎。

整個項目預期會於2020年年底完成。

效益

1. 為跨境貿易中進出口商品的溯源資料提供可靠的標準基礎
2. 助實現跨境商品端到端的完整資料識別、搜集、分享
3. 推動未來為各供應鏈持份者提供溯源資訊查詢服務

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