World Customs Organization

Dataset for e-CO

Tejo Kusuma

Policy Analyst
Revenue and Strategic Planning
Directorate General of Customs and Excise

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Globally Networked Customs (GNC)

## Challenges in establishing interconnectivity:

- Different CO data requirements between one contracting party to another

- Different technical standards and specifications introduced by other contracting parties

- Different procedures of issuance and handling of CO in different contracting party.

Globally Networked Customs

The **voluntary** arrangement between two or more Members for a **seamless exchange** of cross border information at a Customs to Customs level using a **standardized** approach based on existing WCO instruments

By **gradually** moving away from the current individually **hand-crafted** method for negotiating **International Agreements** and using a disciplined and common methodology to **industrialize** the process

GNC: A comprehensive tool for Interconnectivity

People

Policy
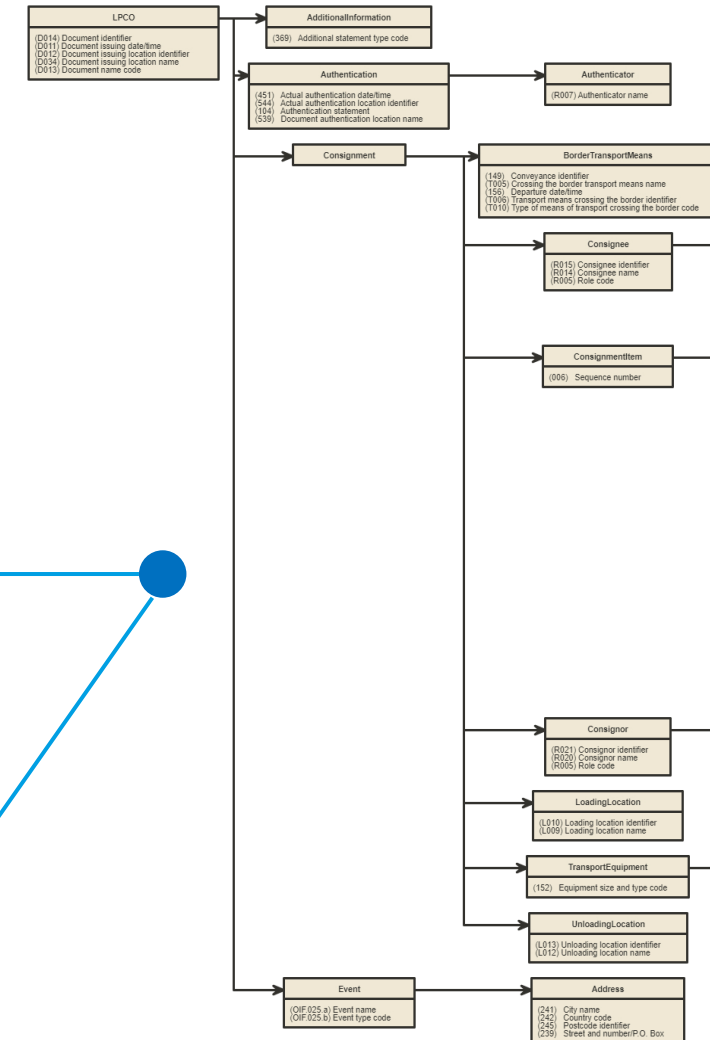
Process
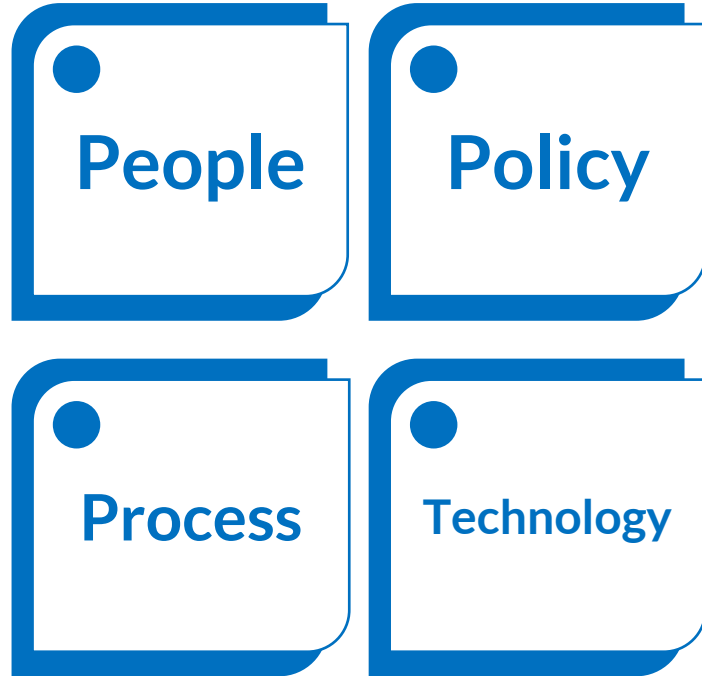
Technology

GLOBALLY NETWORKED CUSTOMS Segments

Regulatory and Legal Framework
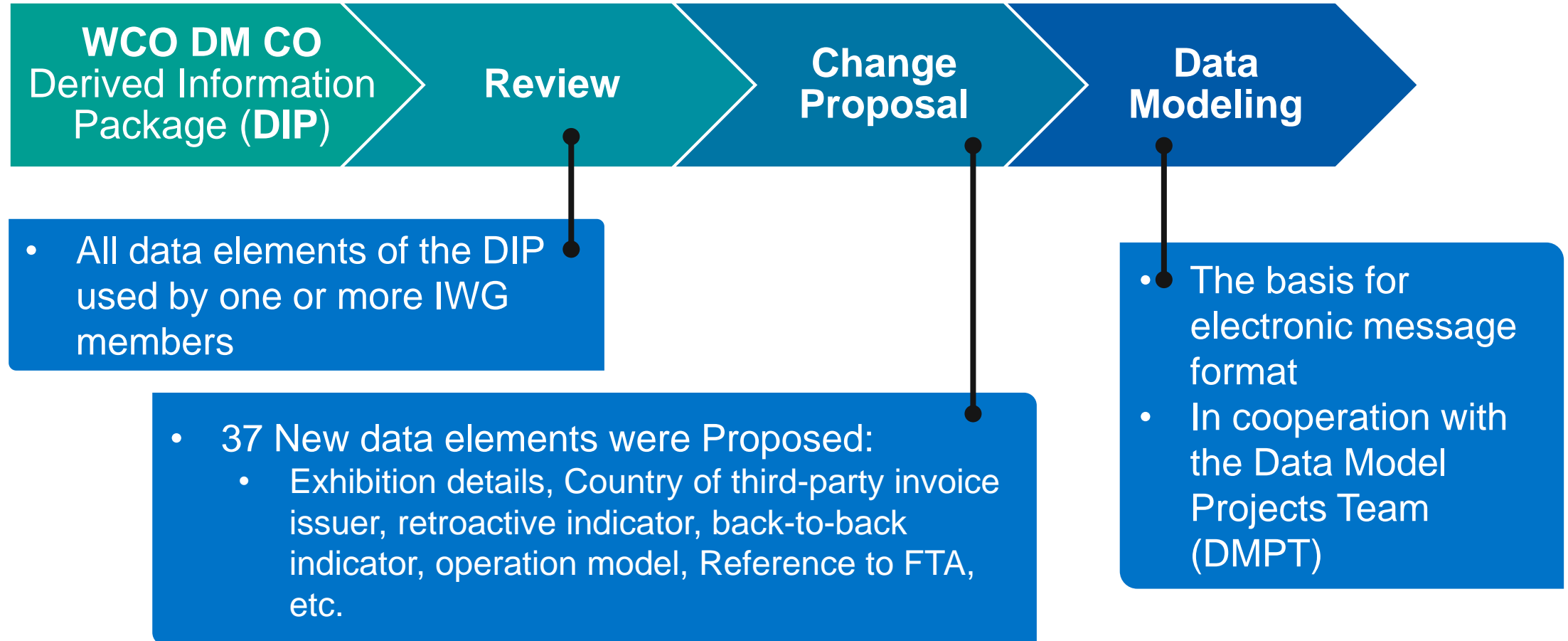
Process Alignment
- Entities
- Trigger
- Process flow/business rules
- Data Cluster

Technological Interoperability
- Systems integration architecture
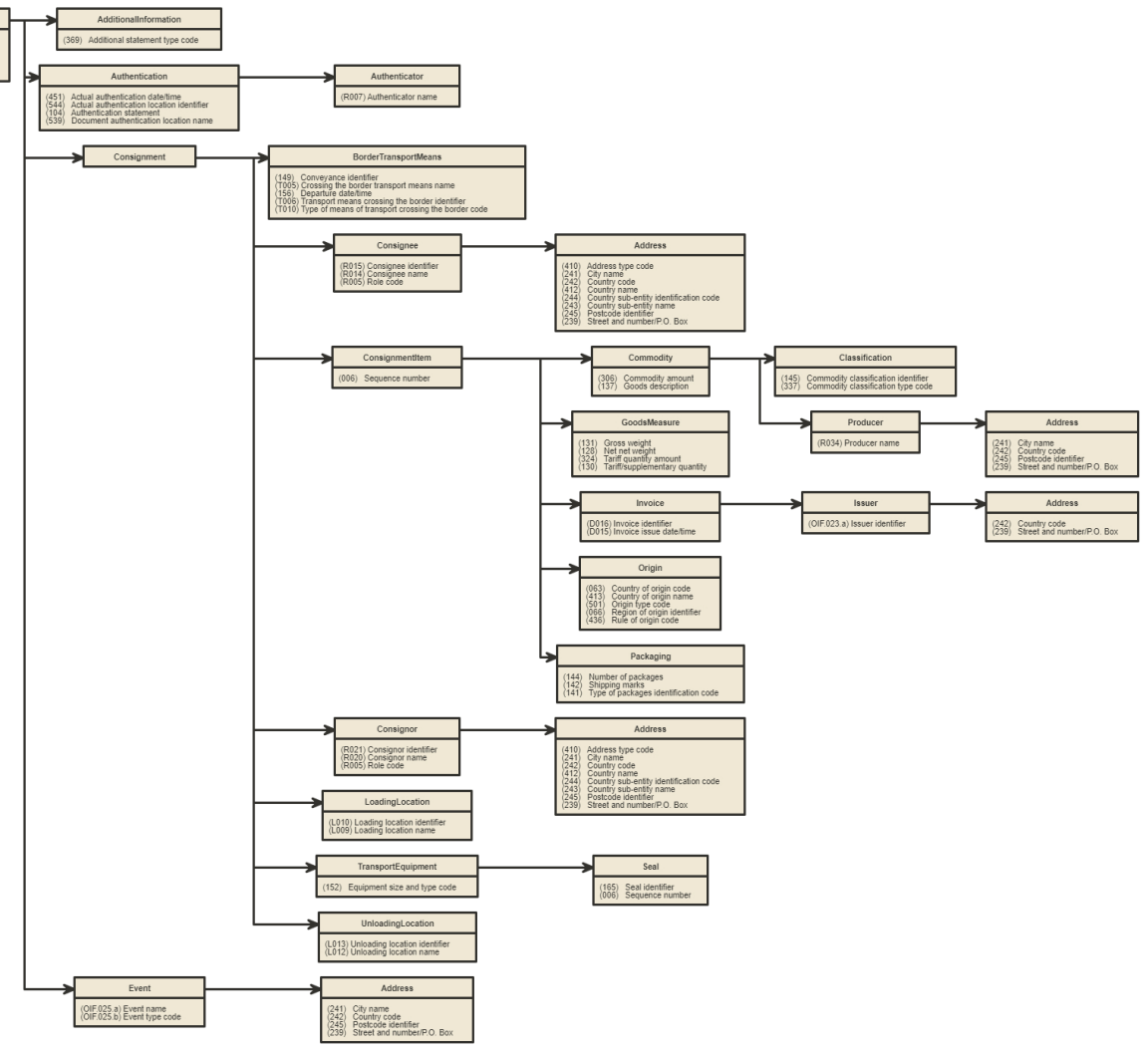- Systems interface
- Network communication
- Security

Origin Digitalization and Interconnectivity

4. Dataset for e-CO

WCO

WCO DM CO Derived Information Package (**DIP**) → **Review** → **Change Proposal** → **Data Modeling**

- All data elements of the DIP used by one or more IWG members

- 37 New data elements were Proposed:
  - Exhibition details, Country of third-party invoice issuer, retroactive indicator, back-to-back indicator, operation model, Reference to FTA, etc.

- The basis for electronic message format
- In cooperation with the Data Model Projects Team (DMPT)

4. Dataset for e-CO

Available on the WCO DM App:
- https://datamodel.wcoomd.org/#/mydataset/code/mapping/e448a5c010
- https://datamodel.wcoomd.org/#/infopack/scope/national/bceed8417e

Maximum dataset and Maintenance Mechanism

CO Data Element "Menu"

• Exporter	✓	✓	✓
• Consignee	✗	✓	✓
• Transport means	✓	✓	✗
• Marks and number	✓	✓	✓
• Gross weight	✗	✗	✗
• Country of Origin	✓	✓	✓
• Origin criteria	✓	✓	✓
• *New data element?*	?	?	?

Maintenance Requests

Maintenance Mechanism
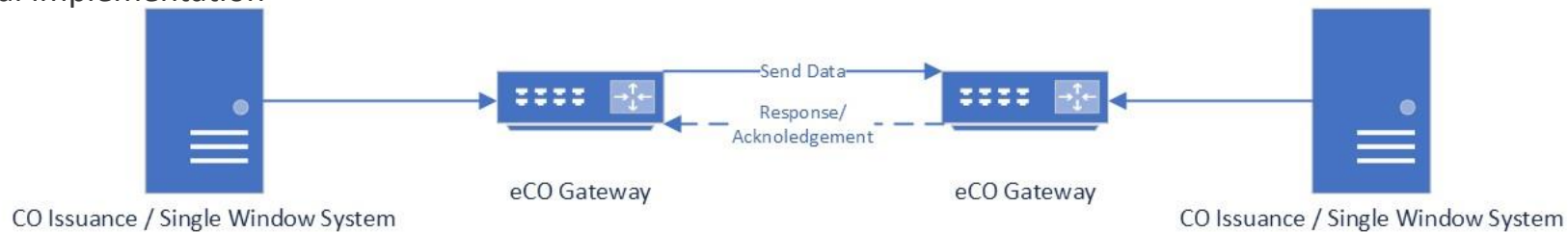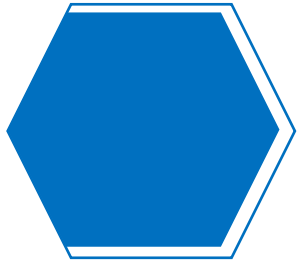
TCRO
(Subject matter expert)

DMPT
(DMR Procedures)

# GNC: seamless interconnectivity using international standard
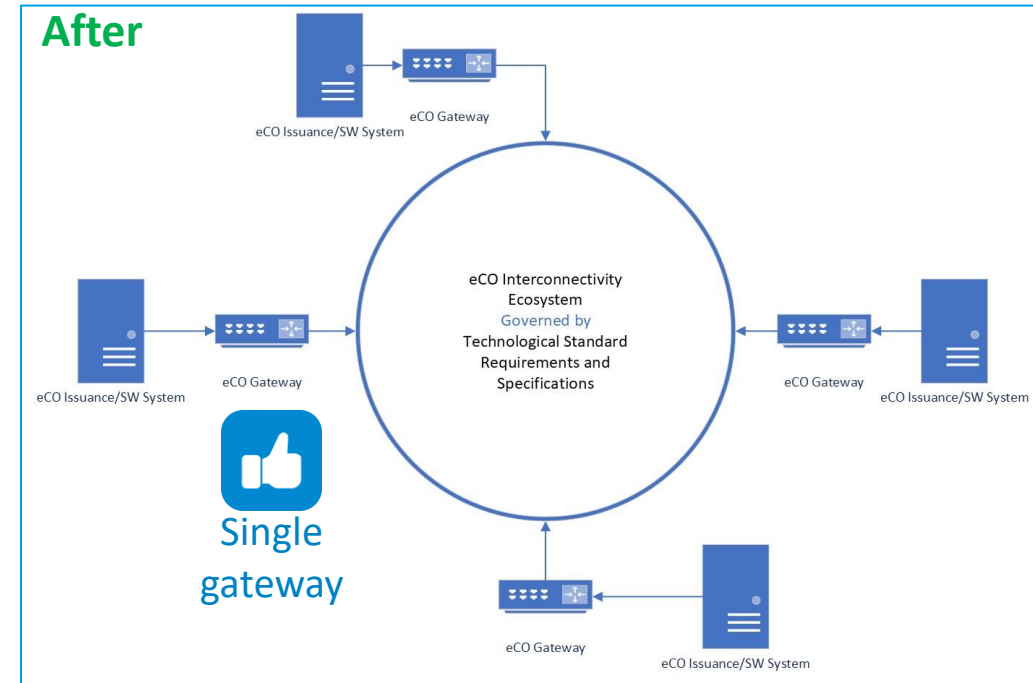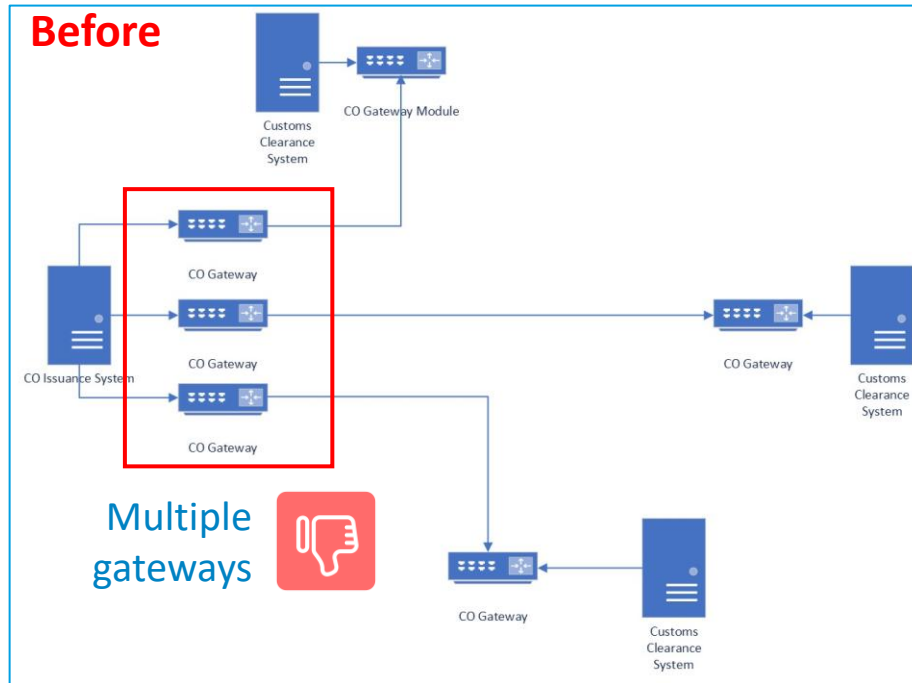
Service Endpoint Pattern

Ensure consistency of service endpoint by standardizing how each part of the endpoint using certain pattern. The pattern allows implementer to configure single gateway to connect with multiple partners

https://{environment}.coconect.{domain}/{service_operation}

Variable	Definition	Example/possible value
environment	The server environment where the system is deployed	• dev (Development) • test (Testing) • prod (Production)
domain	The domain name of the API	e.g., customs.go.kr, beacukai.go.id, aduana.gub.uy
service operation	The service operation as defined in the Service Operation section, lower cased and kebab cased (all spaces are replaced with dash character	send-co

# Necessities for standardization on technical specifications
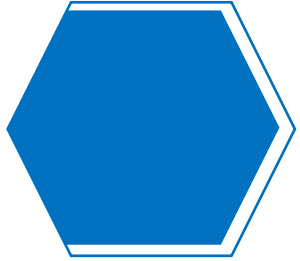
Service Operation Name

Ensure consistency of service endpoint by standardizing the name of service operation derived from the data exchange interaction described by the sequence diagram of the business process model.

Variable	Definition	Client	Service Provider
send-co	Send CO data	Outbound gateway	Inbound gateway
send-amendment-notification	Send amendment notification	Outbound gateway	Inbound gateway
send-cancelation-status	Send cancelation status	Inbound gateway	Outbound gateway
send-feedback	Send origin treatment feedback	Inbound gateway	Outbound gateway

Necessities for standardization on technical specifications
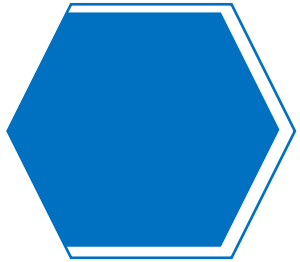
Interface Protocol and Message Format

The interface protocol, such as Webservice, WebAPI or Message Queueu determine how messages travel between two or more systems, while message format, such as JSON, and XML defines what the message looks like when it is to be passed from one system to another
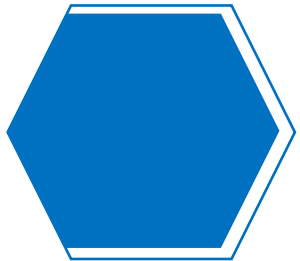
Coded values

concise string of characters that represents a piece of information. Coded value helps to avoid errors when providing information that would otherwise have to be represented by longer text with a higher probability of error.

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Thank you

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