



**Asia-Pacific  
Economic Cooperation**

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**2009/SCCP/SWWG/WKSP3/004**

## **Korea Customs Unique Consignment Reference (UCR) Project**

Submitted by: Korea



**Single Window Working Group Capacity  
Building Workshop 3  
Singapore  
1-4 April 2009**



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## I. Outline of KCS' UCR Pilot Projects

### II-3. WCO Unique Consignment Reference

#### ■ Why ?

- Korea Customs needs to implement its own UCR Guideline to prepare for the following new environments:
  - ✓ Launching the supply chain security program (WCO SAFE Framework, etc.)
  - ✓ Pilot projects on export data exchange and cargo security with other countries
  - ✓ Drawing up the strategy on global trade single window(UN/CEFACT Rec.33)
- Revised Customs Act has come into effect since January 1<sup>st</sup> 2008, which requests traders to declare the UCR and enables Customs administration to issue the UCR
- Simplified guidelines for the UCR is required for all trade and transport stakeholders in Korea

## I. Outline of KCS' UCR Pilot Projects

### ■ History

- Data Exchange Pilot Project with Malaysian Customs (2000)
  - ✓ Send 19 data elements for 3 kinds of goods exporting to Malaysia
  - ✓ Receive 21 data elements for 3 kinds of goods importing from Malaysia
  - ✓ No primary key (i.e., UCR) for assessing exchanged data with import dec.
- Establishment of National Single Window (2003~2008)
  - ✓ 1<sup>st</sup> : Conveyance Report Single Window : C.I.Q. administrations
  - ✓ 2<sup>nd</sup> : Exp/Import Clearance Single Window : 13 PGAs
- Export Data Exchange Pilot with Belgium, the Philippines applying UCR (2008)
  - ✓ Belgium : Employing UCR by exporter in Korea
  - ✓ Philippines : Employing UCR in data exchange and CSD pilot



## I. Outline of KCS' UCR Pilot Projects

### ■ Key Aspects

	Belgium Customs	Philippines Customs
Durations	Jun. 2007 ~ June 2008	Sep. 2007 ~
Scope	Data Exchange/UCR/CSD*	Data Exchange/UCR/CSD
Participants	Hyundai Mobis Co	Dong In Entech Co
Cargo Route	Busan → Antwerp	Busan → Manila
Data Standard	WCO CDM V2.0	WCO CDM V2.0
Applied UCR	KCS UCR Numbering Standard	KCS UCR Numbering Standard
Communication	Mail/Internet (XML)	Internet (XML)
Data Security	PKI (Public Key Infrastructure)	PKI (Public Key Infrastructure)

\*CSD : Container Security Device



## I. Outline of KCS' UCR Pilot Projects

### ■ Progress of the KR-PH Project *(continued)*

- MOU Signing Ceremony : Sep. 2007
- Drafting Terms of Reference (TOR) : Sep. 2007
- Drafting Global Single Window Test Plan : Nov. 2007
- Communication Test : Dec. 2007
  - ✓ Exchange sample XML messages
- Amendment of Korea Customs Code : Dec. 2007
  - ✓ New provision :§255-3
  - ✓ Legal background for data exchange with other countries & the use of UCR



## I. Outline of KCS' UCR Pilot Projects

### ■ Progress of the KR-PH Project *(continued)*

- Modification of electronic documents : Jan. 2008
  - ✓ Add a data element of UCR into electronic export declaration and export manifest form
  - ✓ Release modified MIGs for VAN/EDI communication, and modified schemas for internet communication
- Real Data Exchange : Jan. 2008 ~
  - ✓ 1<sup>st</sup>: 10 EX1 XML messages every day → 2<sup>nd</sup>: real-time data exchange
- Appointment of participants for the UCR project : Jan. 2008
  - ✓ Dong In Entech Co and its branch companies in the Philippines



## I. Outline of KCS' UCR Pilot Projects

### ■ Progress of the KR-PH Project *(continued)*

- Modification of ERP systems of participants : Feb. 2008
  - ✓ Exporter : Installation of automatic UCR issuing program
  - ✓ Freight Forwarder & Sea Carrier : Amendment of their ERP systems to enable to lodge UCR numbers while submitting electronic manifests to Customs
- UCR declaration : March. 2008
  - ✓ 1<sup>st</sup>: Export Declaration (Internet) → 2<sup>nd</sup>: Manifest (VAN/EDI)
- Working Level Meeting in Manila : May. 2008
  - ✓ Importer & freight forwarder : Agreed on the declaration of UCR numbers issued in Korea from import manifest to cargo releasing
  - ✓ Philippines Customs : Agreed on the modification of electronic systems for accepting UCR numbers issued in Korea



## I. Outline of KCS' UCR Pilot Projects

### ■ Basic Principles of KCS' UCR numbers *(continued)*

- Issuing Agency : Korea Customs Service
- Time of issuing UCR : Contracting level is recommended
- Time of declaring UCR
  - ✓ 1<sup>st</sup> : Export goods declaration
  - ✓ 2<sup>nd</sup> : Export manifest
- Numbering Structure
  - ✓ Length : 21 digits in maximum
  - ✓ Composition : IAC(2~3 digits), Year(1), Company ID(6), Serial No(7~10), Check digit(1)
  - ✓ Unique for at least 10 years in national & international level



## I. Outline of KCS' UCR Pilot Projects

### ■ Basic Principles of KCS' UCR numbers *(continued)*

✓ Example of UCR number

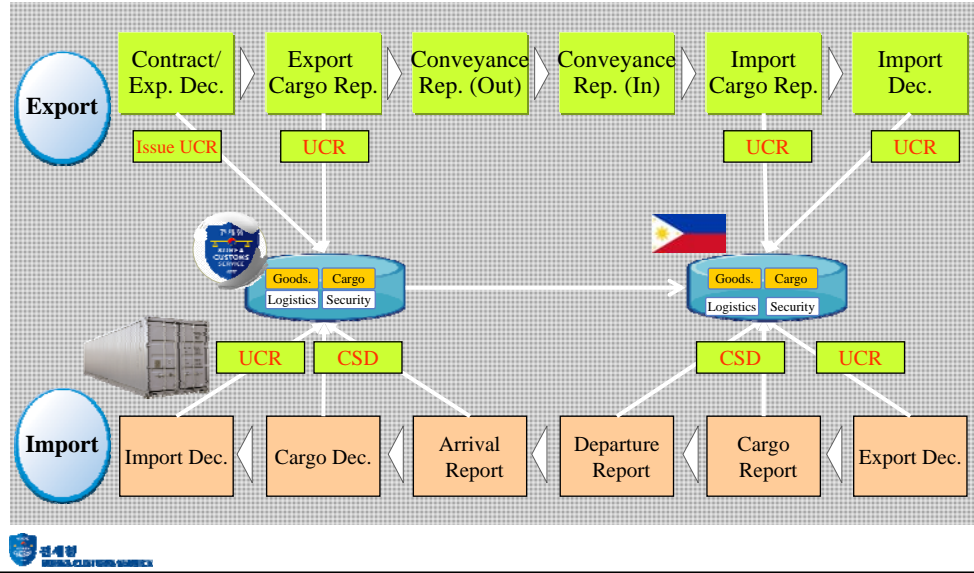
**(KC8MOBIS100000010011)**

<b>KC</b>	<b>8</b>	<b>MOBIS1</b>	<b>0000001</b>	<b>001</b>	<b>1</b>
<b>IAC</b>	<b>Year</b>	<b>Company ID</b>	<b>Serial No</b>	<b>Sub-Serial No</b>	<b>Check Digit</b>

## II. Updates on KR-PH UCR Project

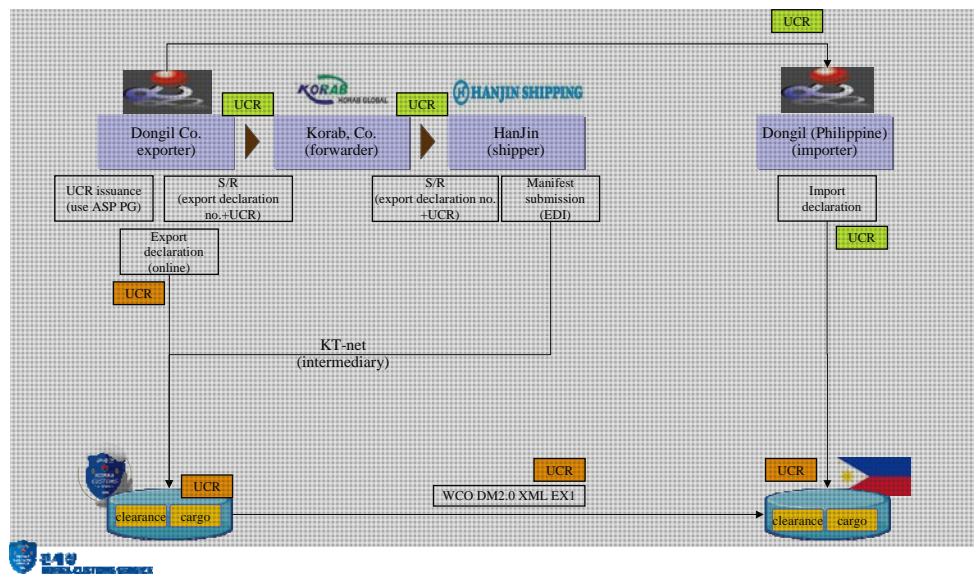
## II. Updates on KR-PH UCR Project

### ■ Conceptual Diagram of Data Flow & Cargo Management



## II. Updates on KR-PH UCR Project

### ■ Overall UCR Declaration Process







## II. Updates on KR-PH UCR Project

### ■ Input UCR Numbers by the Carrier

Booking Number: KOR25075201 A1

Export License Number	SMP PKG	TP	UCR No
023-10-08-0051723-0	0		RC-8-DONGJIN-0000475U-8
023-10-08-0051744-3	0		RC-8-DONGJIN-0000465U-7
023-10-08-0051745-0	0		RC-8-DONGJIN-0000464U-0

Buttons: Retrieve, Save, Close, Add, Delete

- Add the UCR delivered via SR by exporters to the manifest reporting.
- Store the UCR mapping data in the shipper's own ERP

## II. Updates on KR-PH UCR Project

### ■ Manifest Declaration by the Carrier

UCR Numbers

(별지 제6호 서식) 대한민국세관 KOREA CUSTOMS SERVICE 혼재화물적하목록(해상수출) Sea Consolidated Cargo Manifest

지	지	지	지	지	지	지	지	지	지	지	지
지	지	지	지	지	지	지	지	지	지	지	지
HSL1010029473	ICBL0949W 01	E						020150701 326041			C-T-MOEB B-1-UF100000-1-000
HSL1010029474	ICBL0949W 02	E						020150701 326042			C-T-MOEB B-1-UF100000-1-001
	ICBL0949W 03	E			B/L단위로 통합			020150701 326042			C-T-MOEB B-1-UF100000-1-002
	ICBL0949W 04	E						020150701 326042			C-T-MOEB B-1-UF100000-1-003
HSL1010029475	ICBL0949W 05	E						020150701 326045			C-T-MOEB B-1-UF100000-1-000
					B/L단위에서 통합			020150701 326046			C-T-MOEB B-1-UF100000-1-001
								020150701 326047			C-T-MOEB B-1-UF100000-1-002

## II. Updates on KR-PH UCR Project

### ■ UCR Declaration in the Philippines

PH-PMPMI-0000001-PO2A-0



## II. Updates on KR-PH UCR Project

### ■ Assessment of Received Data

Screen of auditing import declaration by a Customs officer



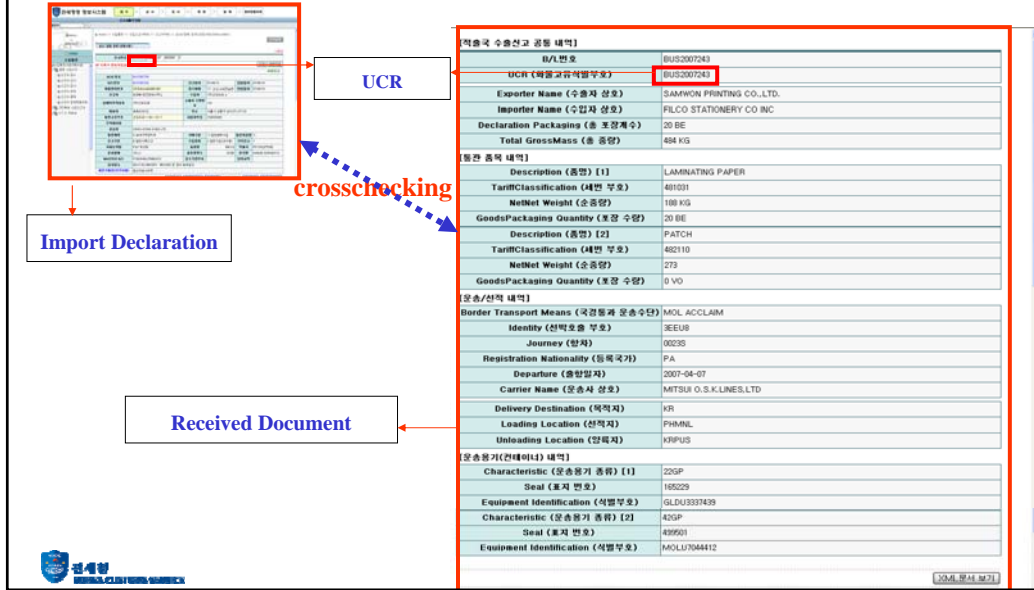
UCR

관세영정 정보시스템			
신고세부현황			
Home >> 수입통관 >> 수입신고서처리 >> 신고서처리 >> 심사/통관 등록(공동사망)(BAC0001)			
입사/통관 등록(공동사망)			
신고번호: 10051 111 BAC0001 11			
※ 조회가 완료되었습니다.			
시유신고			
입사번호	100510001001	신고일자	07/04/19
통관번호	07NE044400000002	결수일자	11 신고 수리완료
신고자	장관배 대진판매사무소	수입자	(주)신도리보 A
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무역대리점			
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운송형태	10-LC	총포장개수	20 개
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세관거래번호(여부)	음산거래사유부		



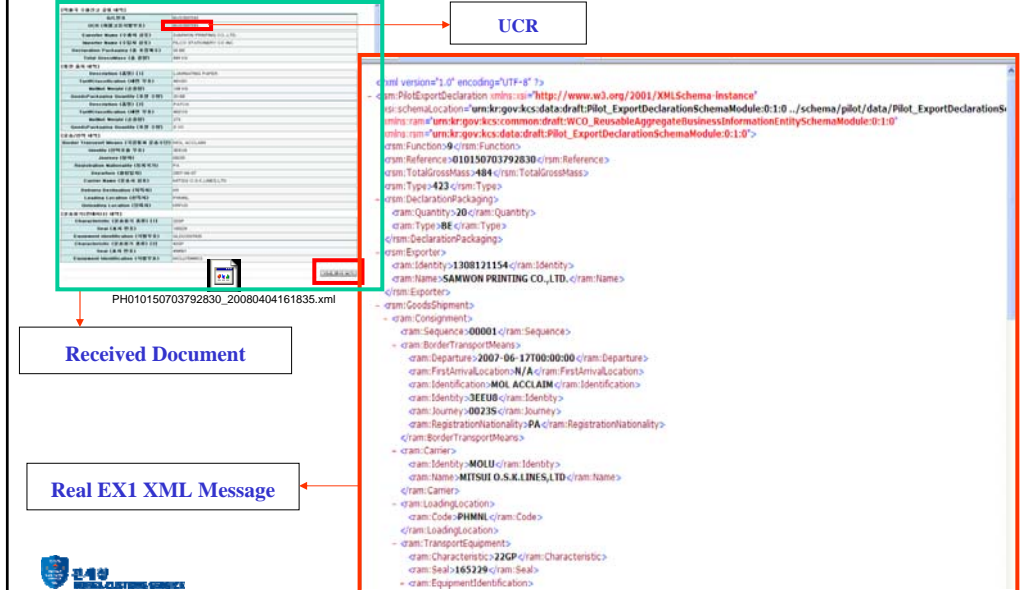
## II. Updates on KR-PH UCR Project

### ■ Assessment of Received Data (continued)



## II. Updates on KR-PH UCR Project

### ■ Assessment of Received Data (continued)

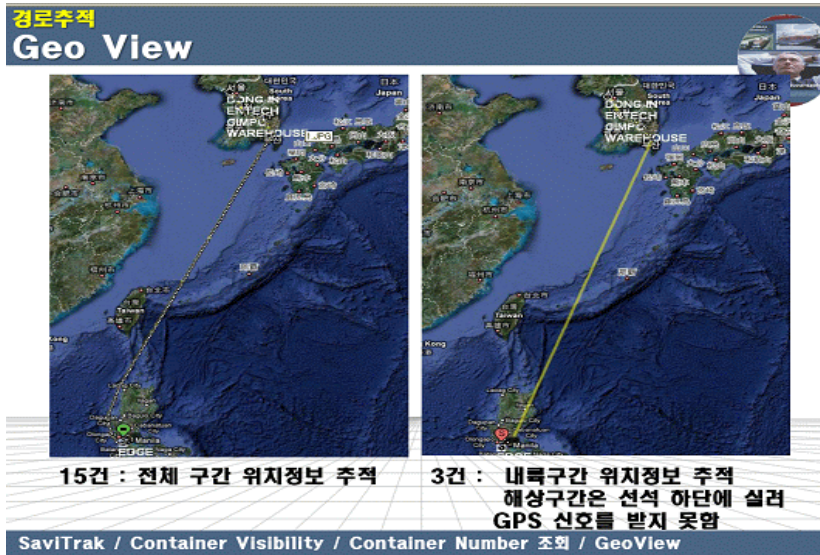




## Applying UCR in CSD pilot



## Geo View utilizing Google earth map



## Zoom In

개요

### 운송경로 - Philip Morris

PMI PH



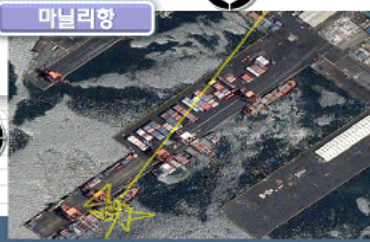
부산항



PMI KOR



마닐라항



## Applying UCR in CSD Platform system

UCR number 구현

### UCR Number Tracking

UCR No 로 Container No. 추적

SaviTrak / PO search / Container Mobility / Risk Management / Container Inspection / Home / Admin

UCR No 조회

Container No 나열

Security 상태 정보

PO	Ship Status	PI Status	CI	To	Supplier	CI Status
UC-00000000000000000000	Shipped	Original		UC-00000000000000000000	Original	

New Detail 1 Click to view Detail PO

PO	Version	Supplier	Event	To	Ship Status	PI Status	Supplier Contact	Supplier Loc	PI Contact	Supplier Contact ID
UC-00000000000000000000	1	Original	Original	UC-00000000000000000000	Original		02-81-547-010	Tanjung	02-81-547-010	02-81-547-010

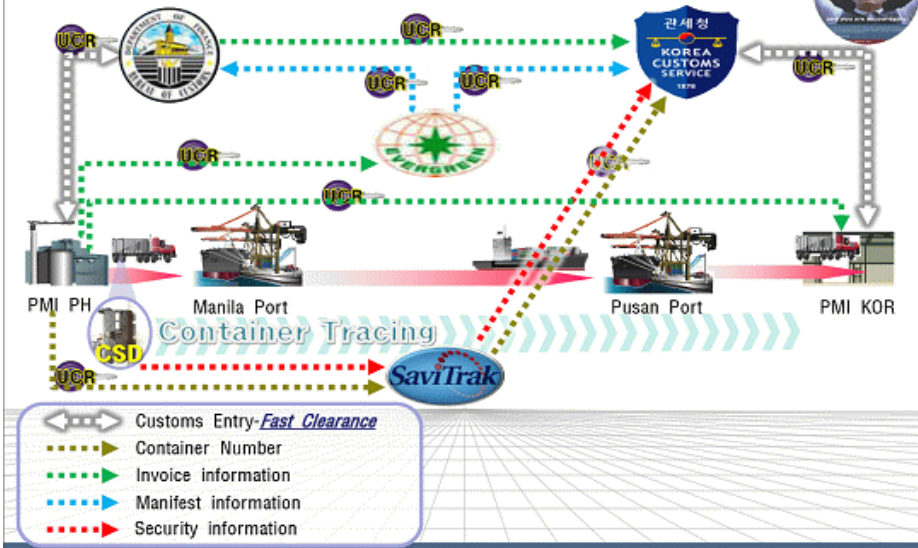
Exc 1	Exc 2	Supplier	From	To	CI Status	Container	BL	Supp	Doc	Shipment Date
UC-00000000000000000000	UC-00000000000000000000	Original	Original	UC-00000000000000000000		UC-00000000000000000000				

SaviTrak / PO search / CI Number 조회



## Applying UCR in CSD pilot

### Data Upload flow



### III. Outcome & Lessons

### III. Outcomes & Lessons

#### ■ Outcomes

- Statistics on data exchange with the Philippines(Jan. 2008 ~ Dec. 2008)
  - Send : 2,404 messages
  - Receive : 1,755 messages
- Risk Management
  - comparing the received data with information in import manifest & declaration using UCR
  - Data exchange with other countries is mandatory for security and facilitation of global trade
- Export cargo tracking
  - Provide export cargo tracking service using UCR by Customs
  - Manage supply chain from source to destination using UCR by traders
- Pre-requisite for Data Harmonization & Standardization



### III. Outcomes & Lessons

#### ■ Lessons

- Resources
  - Necessity of independent department or team
  - Time & budget
- Regular Meeting
  - Periodical conference call
- Collaboration
  - Among departments, with the private sector, between countries
- Feasibility Study
  - Evaluation of partners : IT infrastructure, political willingness, resources, etc
- Experience
  - Important to succeed in the completion of projects





### III. Outcomes & Lessons

#### ■ Lessons

- Data Standard
  - Some of data elements : Inconsistent with WCO Data Model
- Language Issues (e.g., company names)
- Business Confidentiality
  - Invoice Amount
- EX1 & CRE messages
  - Necessary to exchange EX1 & CRE messages respectively for split cargo
- Participants
  - Unwillingness of participation in the private sector

### IV. Future Plans

## IV. Future Plans

### ■ White Paper on the UCR Pilot Project

- Necessary to share valuable experiences and lessons with other members & international trade communities
- Agree to publish white paper on the UCR pilot project with Philippines Customs
  - ✓ Administrative & technical details on the projects, outcomes, obstacles, lessons, etc

### ■ Expand & Upgrade UCR Projects

- Consider regular data exchange & UCR projects with PH & BE
  - ✓ Philippines companies may issue UCR numbers for cargo exporting to Korea
- Study the feasibility of more data exchange & UCR projects with other countries

Thank You  
감사합니다.