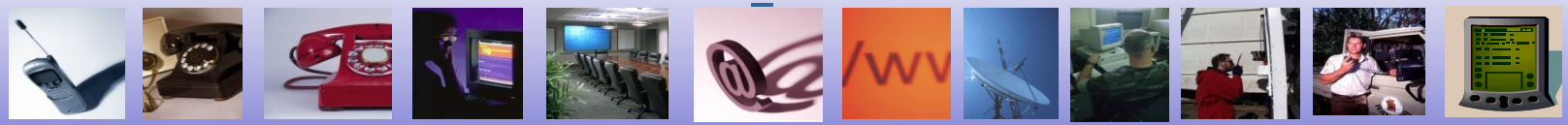
Department of Homeland Security

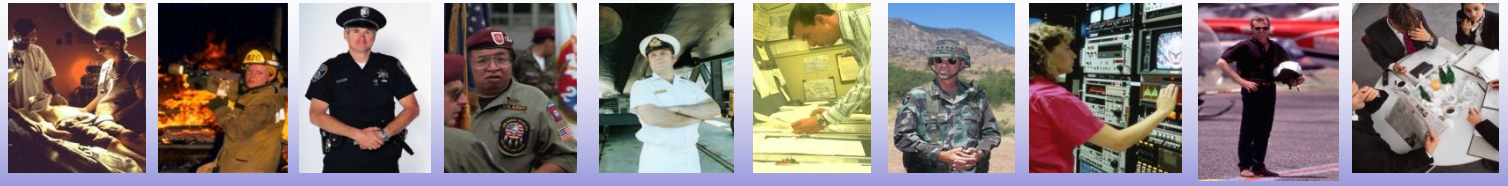
Communicating within or across Departments

Office of the President | Agriculture | Commerce | FEMA | Transportation | Treasury | Justice | State | Defense | GSA

You choose your Medium



You choose your Audience



CKM® takes care of the rest.

Homeland Security

- Overview
- Grouped by Agencies
- Example 1:TSA and the Aviation Environment
- Example 2: The Shipping Environment
- Using CKM for Authorization UND Pilots (Coming Soon)

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Departments & Agencies Involved in Homeland Security

- **Office of the President**
  - PCIPB -The President's Critical Infrastructure Protection Board
    - NSTAC - The President's National Security and Telecommunications Advisory Committee.
- **USDA** - Department of Agriculture
  - APHIS - Animal and Plant Health Inspection Service
- **DOC** - Department of Commerce
  - CIAO - Critical Infrastructure Assurance Office
- **FEMA** - Federal Emergency Management Agency
  - National Security
  - Planning and Assistance
  - National Preparedness
  - Regional Offices
- **DOT** - Department of Transportation
  - Coast Guard
  - TSA – Transportation Security Administration
  - FAA – Federal Aviation Administration
- **Department of Treasury**
  - Secret Service
  - Customs
- **DOJ** - Department of Justice
  - Justice Programs
    - ODP - Office for Domestic Preparedness
  - FBI - Federal Bureau of Investigation
    - NDPO - National Domestic Preparedness Office – Counter Terrorism Division
    - NIPC - National Infrastructure Protection Center - Counter Terrorism Division
  - INS - Immigration and Naturalization Service
    - Border Patrol
- **DOS** - Department of State
  - Visa Office
- **DOD** - Department of Defense
  - DISA - Defense Information Systems Agency
    - NCS - National Communications System
- **GSA** – General Services Administration
  - FTS - Federal Technology Service
    - FCIRC – Federal Computer Incident Response Center (FedCirc)
  - Federal Protective Service (FPS)

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Departments & Agencies Involved in Homeland Security

Office of the President

USDA

DOC

FEMA

DOT

Treasury

DOJ

DOS

DOD

GSA

NSTAC
(PCIPB)

APHIS

CIAO

Coast Guard

Customs

ODP

Visa Office

NCS
(DISA)

FCIRC
(FTS)

TSA

Secret Service

NDPO (FBI)

FAA

NIPC (FBI)

INS

Border Control
(INS)

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Example 1: TSA – The Aviation Environment

Agencies Involved

- TSA
- FAA

Other Entities Involved

- Airline
- Chicago O'Hare Airport

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The Aviation Environment

The Pilot's Smart Card holds Permissions for the following facilities:

CHICAGO O'HARE AIRPORT

FEDERAL AVIATION ADMINISTRATION

UNITED AIRLINES

TRANSPORTATION SECURITY ADMINISTRATION

O'Hare Airport requires the following Permissions:
Airport
Tarmac
Tower

The FAA requires the following Permissions:
Flight Control
Communications Channel

UAL requires the following Permissions:
Ready Room
Cockpit
Human Resources

Example 2: The Shipping Environment

US Agencies Involved

- TSA (DOT)
- Coast Guard (DOT)
- Port Authority of NY and NJ
- Customs (Treasury)
- Visa Office (DOS)
- Border Control (INS - DOJ)

Other Entities Involved

- Shipping Company
- Republic of Liberia
- Gov't of Greece

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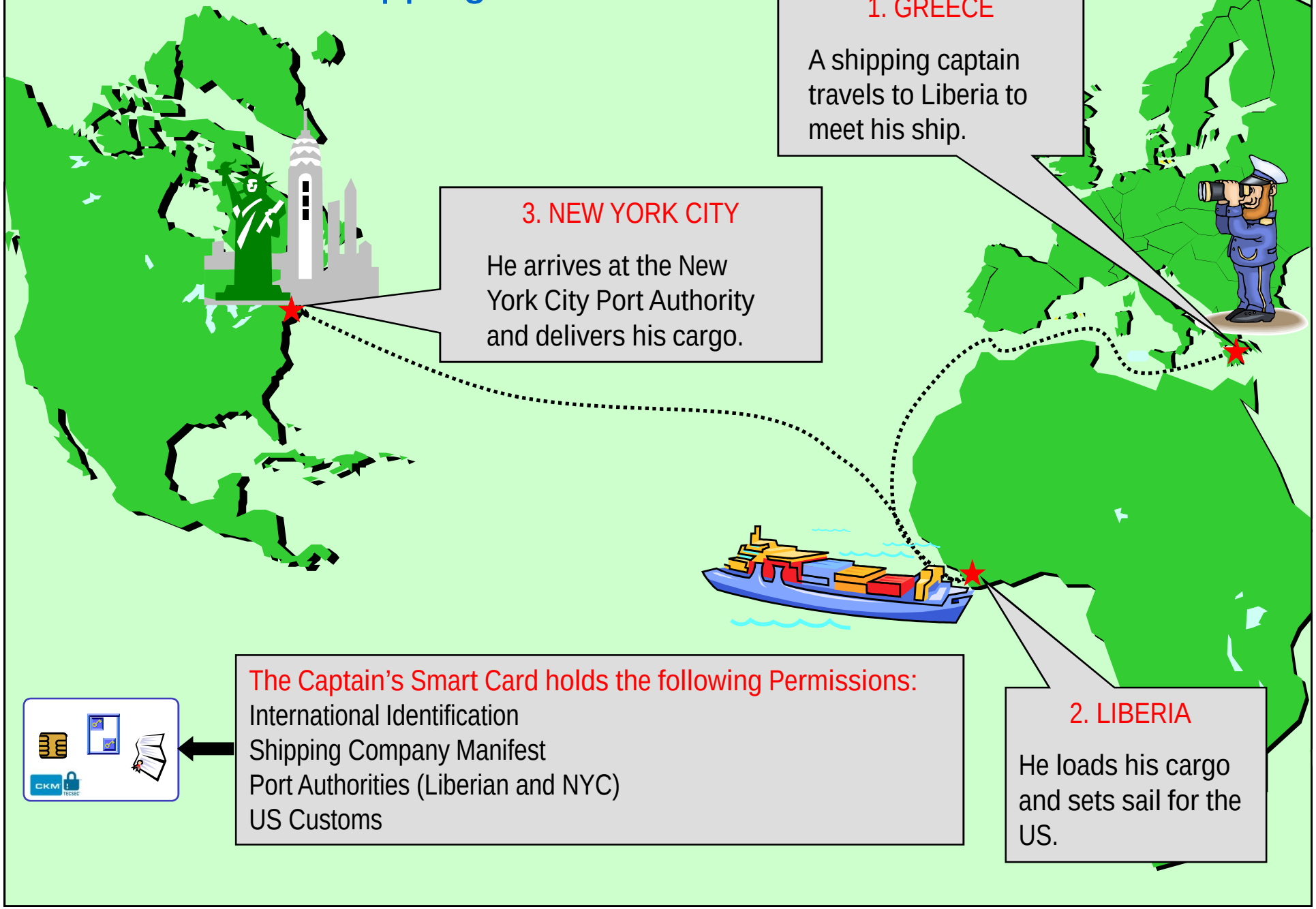
The Shipping Environment



1. GREECE

A shipping captain travels to Liberia to meet his ship.

2. LIBERIA

He loads his cargo and sets sail for the US.

3. NEW YORK CITY

He arrives at the New York City Port Authority and delivers his cargo.

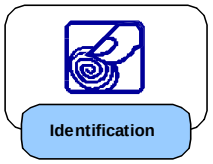
The Captain's Smart Card holds the following Permissions:

International Identification
Shipping Company Manifest
Port Authorities (Liberian and NYC)
US Customs

The Authorization Elements

Identity = Token + Identification + Authentication

- Token Only *or…*
- Token and Identification *or…*
- Token and Authentication *or…*
- Token and Identification and Authentication



Coupled with

Credentials = Set of Permissions on the Token

- For physical, logical, functional access control
- To airports, countries, objects, information, etc
- From multiple sources (FAA, TSA, UAL, INS, etc)

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The Authorization Process

- Individual presents Token
  - with or without I&A and commensurate with risk

- Identity is validated and verified

- Credentials (permissions) located on the Token are checked
- Access/Authorization is granted or denied

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In Summary:

A Hardware Token
with
Identification + Authentication
(Commensurate with Risk)
and
Coupled with Credentials
(= Sets of Permissions)
Provided by Multiple Sources

= Secure Authorization

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