

American Association of Port Authorities
2013 Conferencia Ejecutiva para America Latina y el Caribe

**Tecnologias para Informacion y Comunicacion como
instrumentos Claves en la Mantencion de Operaciones y
Gestion Portuaria**

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Seguridad Fisica



Un poquito de que es Louis Noriega y Automated Port Solutions

- **Gerente Principal de Automated Port Solutions que se especializa en el tema de Sistemas Portuarios de Operaciones y Seguridad Física**
- **Previo Director de Informática del Puerto de Miami que sirvió por 14 años dirigiendo el desarrollo de todos los Sistemas de Operaciones, Seguridad Física, Financia y Mercadeo que soporta el negocio del Puerto.**
- **32 años de experiencia en el campo de informática**
- **Anterior Presidente del Comité de Informática de la AAPA**
- **Miembro de la AAPA por 10 años**
- **Miembro anterior del Comité de Seguridad de los Puertos de la Florida**
- **Miembro anterior del Comité del desarrollo de un Credencial Unificado del Estado de la Florida**
- **Nombrado en el libro universitario “Port Security Management” como una persona que tiene la habilidad de explicar sistemas complejos**
- **Honorado de recibir el premio de Líder de Tecnología del año 2010 por la Cámara de Comercio de Miami**



Port of Miami Network Infrastructure 1999

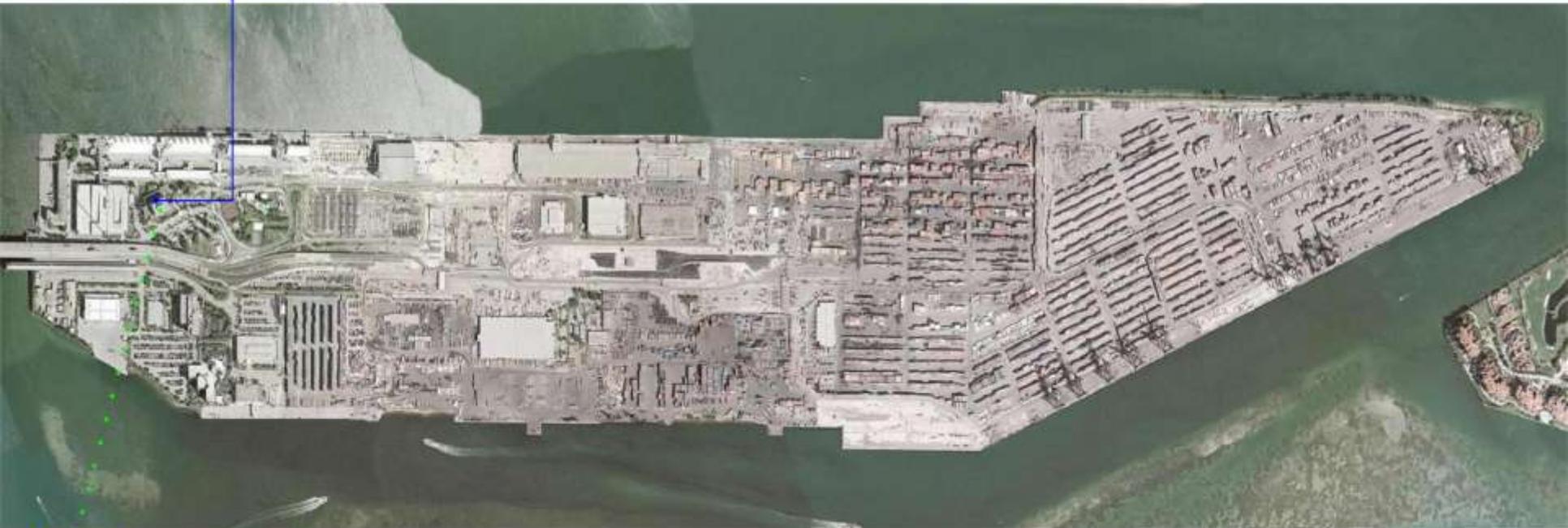
1045 BUILDINGS
Primary Site

Legend for building types:

- Person icon
- Hand icon
- Building icon
- Truck icon

Secondary icons:

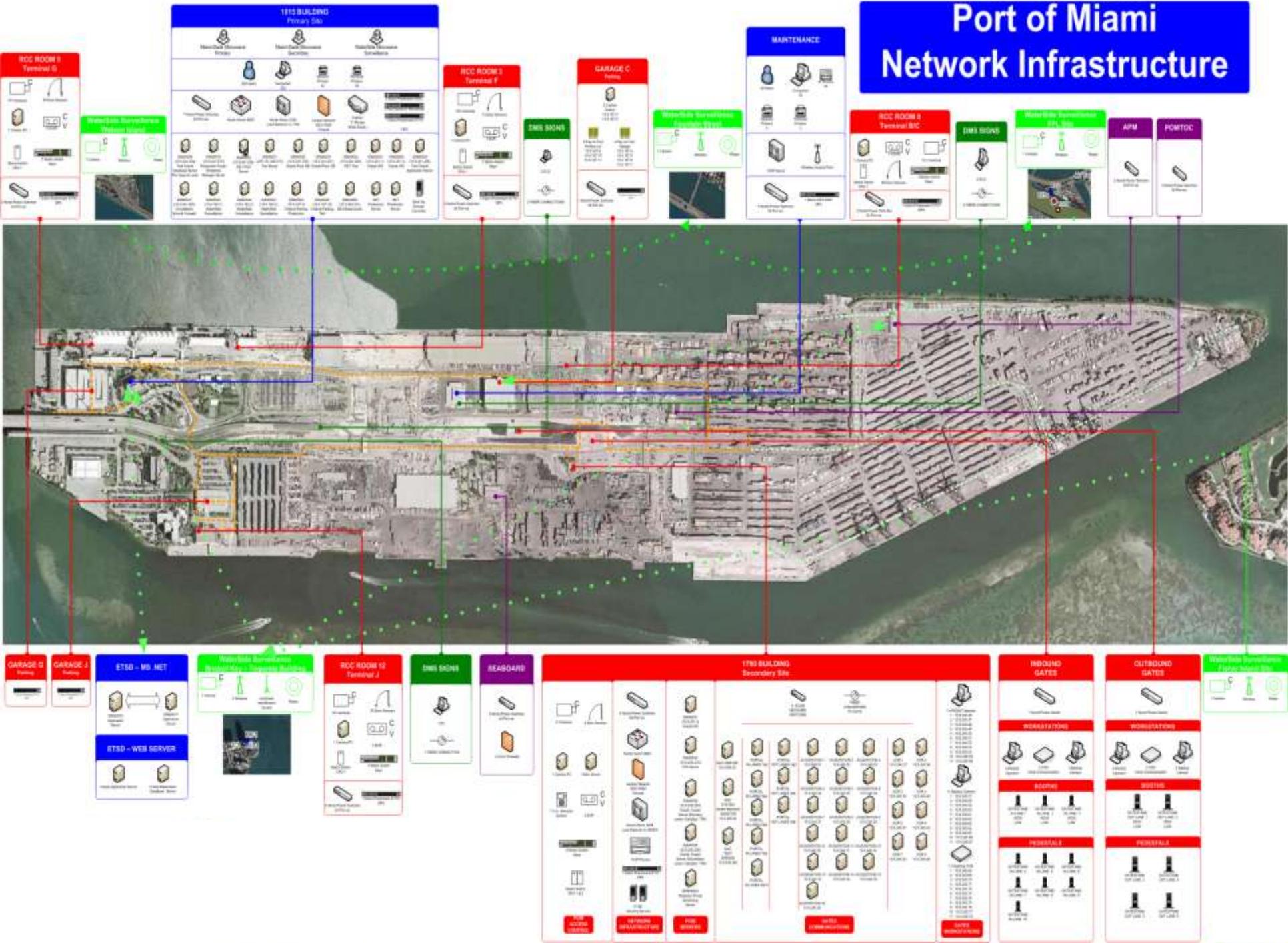
- Hand icon
- Truck icon



ETSD



Port of Miami Network Infrastructure



Permiso de Negocio

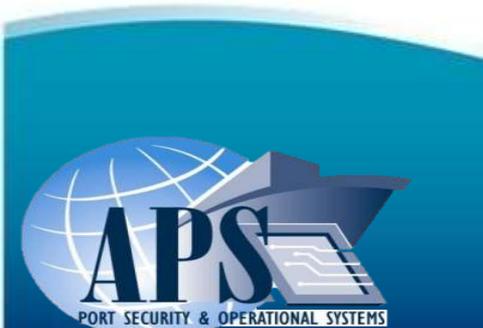
Con el fin de llevar a cabo negocios de acuerdo con las normas y requisitos del Arancel Portuario, las empresas deben cumplir con todas las regulaciones locales, estatales y federales.

- Verificación de la empresa con el Estado
- Prueba de seguro
- Garantía de pago

The screenshot displays a software window titled "Permit System" with a menu bar including File, Application, Permit, Insurance, Bond, Payment, Follow-up, Reports, Category, Letters, Approval, and Help. The main window is titled "Permit Inquiry" and contains the following information:

- Application:** No. 2008-08544, App. Date 08/04/2008, City []
- Permit Information:** Permit Number 3005, Status A, Exp. Date 08/04/2009, First Busn Date 08/04/2008, Issue Date 08/21/2008, By DALGISB
- Payments:** Last Check Rec. Date 08/04/2008, Amt Received \$662.00
- Insurance:** Ins. Exp. Date 01/09/2009, Bond Exp. Date []
- Category Information:** 11 PRE-ARRANGED GROUND TRANSP
- Approved by:** Property Section, Finance, Permit Section, Collections Section, Supplemental Data Form File
- Company Information:** No. 4328, Name MIAMI BEST TRANSPORTATION, L.L.C., Doing Business As [], Print Company Name, Print DBA Name
- Primary Contact:** Name (J, ZEDDIN, ALHDM), Title MGR, Address 13361 SW 52nd COURT, City MIRAMAR, State FL, Zip 33027, Country USA, Email INFO@MIAMIBESTTRANSPORTATIO, Phone (888) 884-6934, Fax (305) 829-7949
- Secondary Contact:** Name [], Middle [], Last Name [], Title [], Address [], City [], State [], Zip [], Country [], Email [], Phone [], Fax []

On the left side of the window, there is a vertical toolbar with icons and labels for Followup, Insurance, Bond, Payment, Void, Print, Save, and Close. At the bottom, it shows "Record: 1/1" and navigation buttons for <OSC> and <DBG>.



Credencial

Después de obtener un Permiso de Negocio, todo el personal de la empresa que trabajan en el puerto deben obtener una tarjeta de identificación. Esta tarjeta de proximidad se usa para obtener acceso a las áreas restringidas del Puerto vía lectores atado al sistema del acceso.

Personal Details Form

Exit
 Image
 Preview
 History
 Cards
 New Note
 Vehicle Passes
 Print Dock
 Print Card
 Dossier
 Parking
 Certific
 Take
 Edit

Last Name: TESTPARK9
 First Name: TEST Middle:
 Personal ID: 78230 DRL No: F777777777 FL
 SSNo: 020-30-6050 D.O.B.: 12/14/1965
 Race: W Weight: 125 Height: 105 Sex: F
 Hair Color: BLONDE Eye Color: BROWN
 Address: TEST TEST
 Line 2:
 City/St/Zip: MIAMI FL 33165
 Home: (305) 227-4343 Work: Cell:

Parking Privilege: Yes Certifications: No
 Company: MIAMI DADE COUNTY EMPLOYEE
 Department: ACCOUNTING
 Title: DETECTIVE
 Personal status: Access Level: Admin Bldg
 BadgeType: pewa

Last Fingerprint Information State National
 Fingerprint Re-Sent Name Search

TCN: TEST000000007
 Sent On: 8/20/2008
 Received On: 8/20/2008
 Rejected: TCR:

ADJUDICATION APPROVED on 8/20/2008 !!! Next Fingerprint Check Recommended STATE.

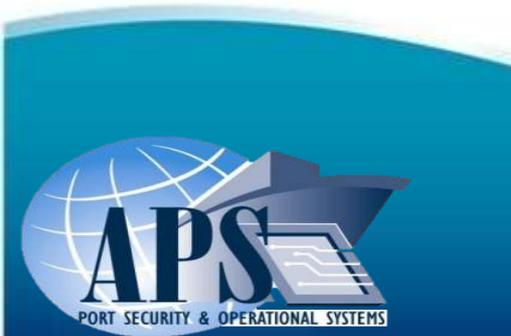
Tag No	Effective From	Effective To
<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes

DATE	NOTE
<input type="text"/>	<input type="text"/>

Record:

Current card information
 Card No.: 1000074
 Prn Serial No: 218002
 Issue Date: 10/22/2008
 Exp. Date: 8/20/2009
 Bdg status: ACTIVE
 Bdg Type: pewa



Acceso Electrónico

Un sistema de control de accesos es uno de los pilares imprescindibles del sistema de seguridad en general, puesto que se encarga de permitir o cancelar el paso a un espacio protegido con determinados riesgos

- Prevenir "Piggybacking"
- Integrado con el sistema de CCTV y Permiso de Negocio



Entrada a las Terminales

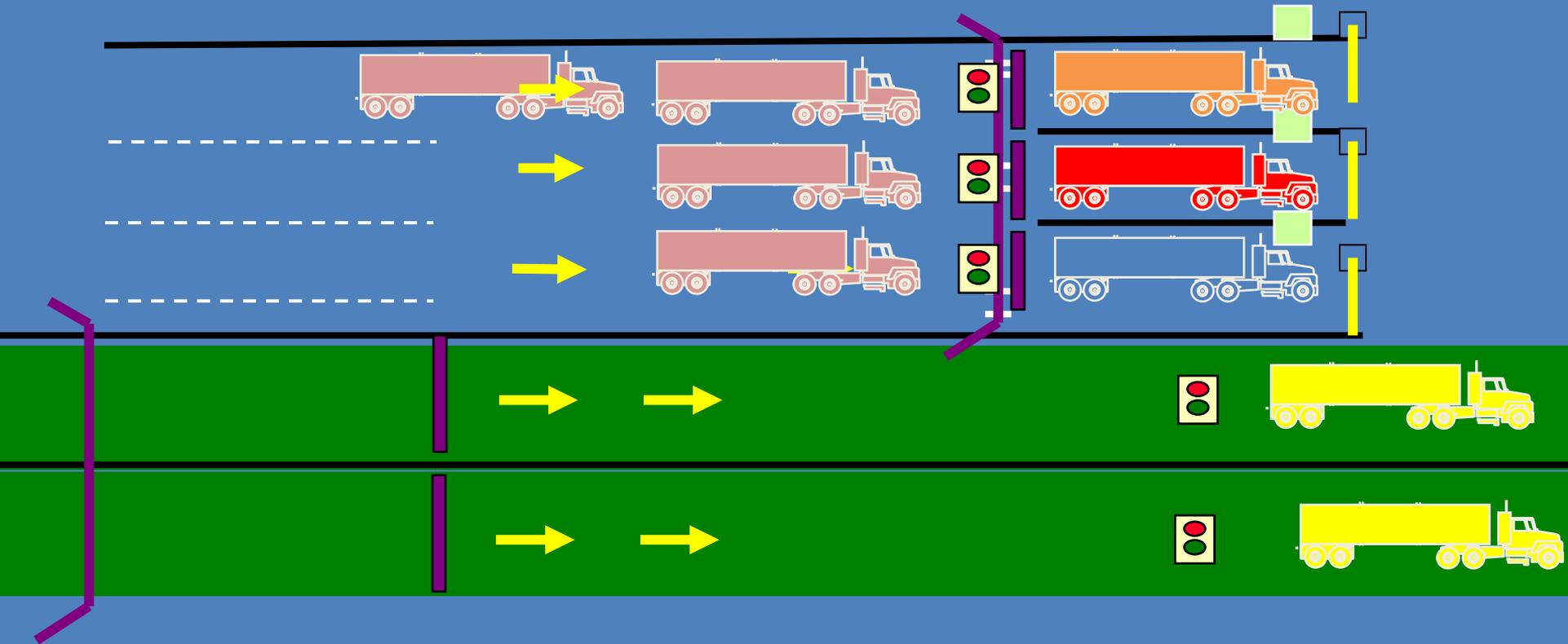


Cargo Gate Vehicle Processing Security System designed and implemented by the Port of Miami ranks amongst the most technologically advanced Cargo Gate system in the Western Hemisphere. It is used to control access to the restricted cargo areas of the Port.

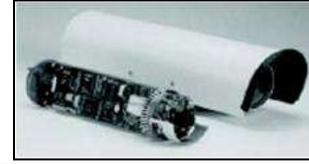
Entrada a las Terminales



Mi Visión del Líneas Verdes para las Puertas de los Puertos



Visión del Líneas Verdes



- OCR camera:
- Truck Tag
- Container #
- Chassis #

ata from truck at tunnel exit

- Uses 5.9 GHz DSRC and 1609.11 security similar to tolling and WRI systems (128 bit AES encryption)
- Data along with OCR, Thermal, and WIM readings are used to qualify truck for Green Lane.

Green Lane Entrance:

- Truck presence detected
- RFID is reconfirmed
- Financial Transaction Performed
- Feedback provided to driver via red/green signal and/or message sign



-Thermal Camera senses number of occupants in truck

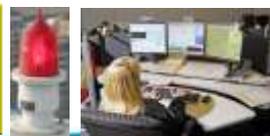
-Weigh-In-Motion Scales capture scale weight

-Feedback provided to driver
-Green Lane Access (Granted or Denied)

-Unauthorized Vehicle Detected
-Enforcement notified (visual and computer monitor) for violation processing



UNAUTHORIZED VEHICLE!
ENTER STOP LANES



Transporte Terrestre

Los vehículos de la flota de la compañía que se le permite la venida en el puerto están obligados a estar registrados en el sistema y instalar un transpondedor. El sistema ofrece a los conductores la capacidad de conducir a través de los puntos de entrada sin tener que parar o reducir la velocidad para pagar los honorarios



Vigilancia del Ribereño



The screenshot displays the Honeywell RVS - Cruise Operations software interface. The main window shows a satellite map of a port area with various vessels and structures labeled. The interface includes a menu bar (File, Edit, View, Help) and a toolbar with navigation and zoom controls. A status bar at the bottom provides location information: MIAMIDADE\SPBARCO, SELECT, -80.18351, 25.7789, 80° 11' 01" W 25° 46' 44" N.

Labels on the map include: PINAR DEL RIO, Watson, NRC LIBERTY, FLORIDA RESPONDER, T1010, SLUISGRACHT, JAN CARIBE, T1012, SEABOARD COSTA RICA, T1006, HANJIN LIMA, MAERSK DHAHRAN, EL RAMAL, G2, G4, G5, FOUNTAIN, GREETSIEL, FORT BRAGG, ST MARKS, FISHER, GOLDEN ODYSSEY, C1, AIS1, Tequesta, and C4.

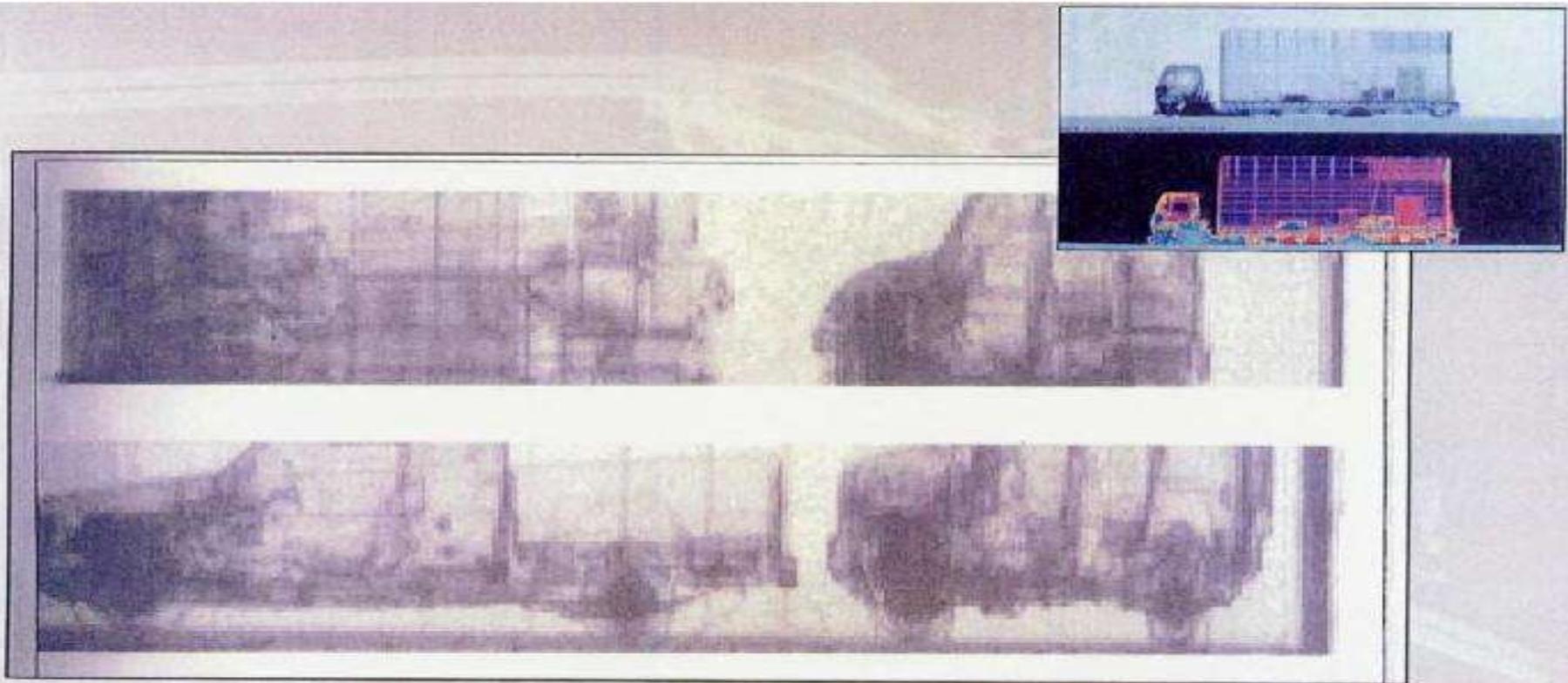
Four live video feeds are visible:

- Top-left: A wide view of the water with a red crosshair.
- Middle-left: A view of a boat on the water.
- Bottom-left: A view of a bridge structure over the water.
- Bottom-right: A view of a large ship docked at a pier.

Vigilancia del Ribereño



Inspección no intrusiva de contenedores



Reconocimiento de matrículas

The screenshot displays a software interface for license plate recognition, divided into two main sections: "Left Traffic" and "Right Traffic".

- Left Traffic:** Shows a rear view of a dark-colored SUV. The license plate is identified as **NT2485**. Below the image, there are buttons for "Call", "IR", and "Take Pic", followed by a display of the license plate number **NT2485**. At the bottom of this section are buttons for "Review", "Eject 2001", and "Eject 2002".
- Right Traffic:** Shows a rear view of a white Chevrolet pickup truck. The license plate is identified as **HI19711**. Below the image, there are buttons for "Call", "IR", and "Take Pic", followed by a display of the license plate number **HI19711**. At the bottom of this section are buttons for "Cam Mode Traffic", "Admin", and "Log Out".

At the bottom left of the interface is the logo for **APS PORT SECURITY & OPERATIONAL SYSTEMS**, which features a stylized globe and circuitry.

Notificación Masiva

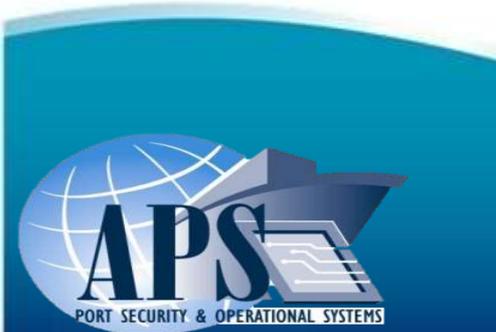


Gestión de Video

Diseñar un buen sistema de CCTV no es tan fácil como muchos creen.

- Sistema Digital
- Sistema Análogo
- Sistema Híbrido
- Suporte de Camaras Megapíxel vía la Red
- Amplio rango dinámico
- Sabotajes de las camaras
- Visualización Remota

The screenshot displays the NiceVision Control software interface. On the left is a channel list with 25 entries, each showing a camera icon, a status indicator (red or yellow), and a channel ID (e.g., R209103V005(9)). The main area shows a 2x2 grid of video feeds. The top-left feed shows an airport terminal with a red circle highlighting a person. The top-right feed shows a hallway with yellow circles highlighting a person. The bottom-left feed shows a train platform with a yellow circle highlighting a person. The bottom-right feed shows a highway with a yellow circle highlighting a car. At the bottom, there is a control panel with a 'Live' indicator, a zoom level of 'x(1) (100%)', a date of '14 September 2004', and a time of '20:29:35'. A red 'ALERT!' button is visible, along with a message: 'ALARM! Manual on Channel R209103V013'. The 'NiceVision Control' logo is at the bottom left, and the 'NICE' logo is at the top right.



Análisis de Video Tradicional



Análisis de Video de Comportamiento



Car Follows Train



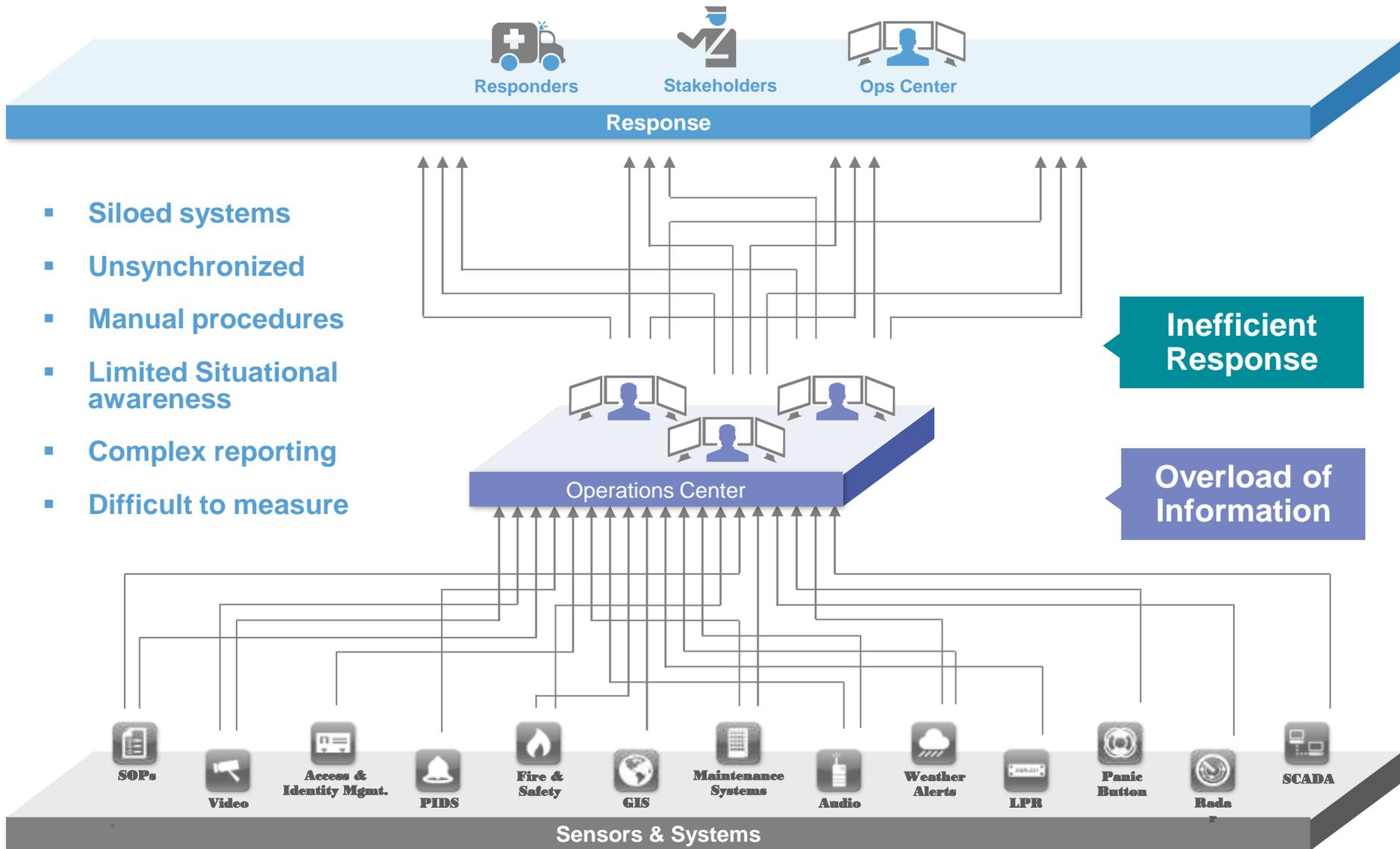
Climbing on top of Emergency Box



Centro de Comando y Control



La Situation en los Centro's de Command and Control





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