

PORT CHARLESTON



AAPA Port Operations and Information Technology Seminar

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Presentation Outline

- Container Terminals Overview
- Yard Management System
- Wireless Infrastructure

PORT CHARLESTON

We currently have four terminals in operation with a fifth terminal in the planning stage.



Union Pier Terminal



Cargo at UPT

Breakbulk/heavy lift charter ships, and passenger cruise vessels.

Columbus Street Terminal



Cargo at CST

Container and
breakbulk /
heavy lift.

2 container
berths with on-
terminal rail
yard. 4
breakbulk
berths; 3875 feet
total.

78 acres of open
storage.

North Charleston Terminal



Cargo at NCT

Container cargo.

3 berths with on-terminal rail yard; 2500 feet.

123 acres of open storage.

Wando Welch Terminal



Cargo at WWT

Container cargo.

4 container
berths, 10
container
cranes; 3800
feet of berth.

194 acres of
open storage.

Yard Management System

- Real-time inventory, yard configuration management, cargo handling intelligence
- Five applications manage gate operations, yard work, yard configuration, vessel operations, business reporting



Wireless Evolution at Port Terminals

- ✓ **1st network:** Intermecc access points at 24'
*Implemented at Columbus Street, North Charleston,
Wando Terminals in 1998*

- ✓ **2nd network:** Cisco access points at 24'
and 100'
*Implemented at Columbus Street, North Charleston
Terminals in 2001*

- × **3rd network:** Cisco access points at 100'
Proposed to complete WWT implementation

Proposed Wando Terminal Implementation

Wando Terminal Project

- 32 Cisco access points on 100' poles; additional ductbank, data, and UPS power needed
- Infrastructure cost: **\$1,750,000**
- Estimated timeline: **10.5 months**

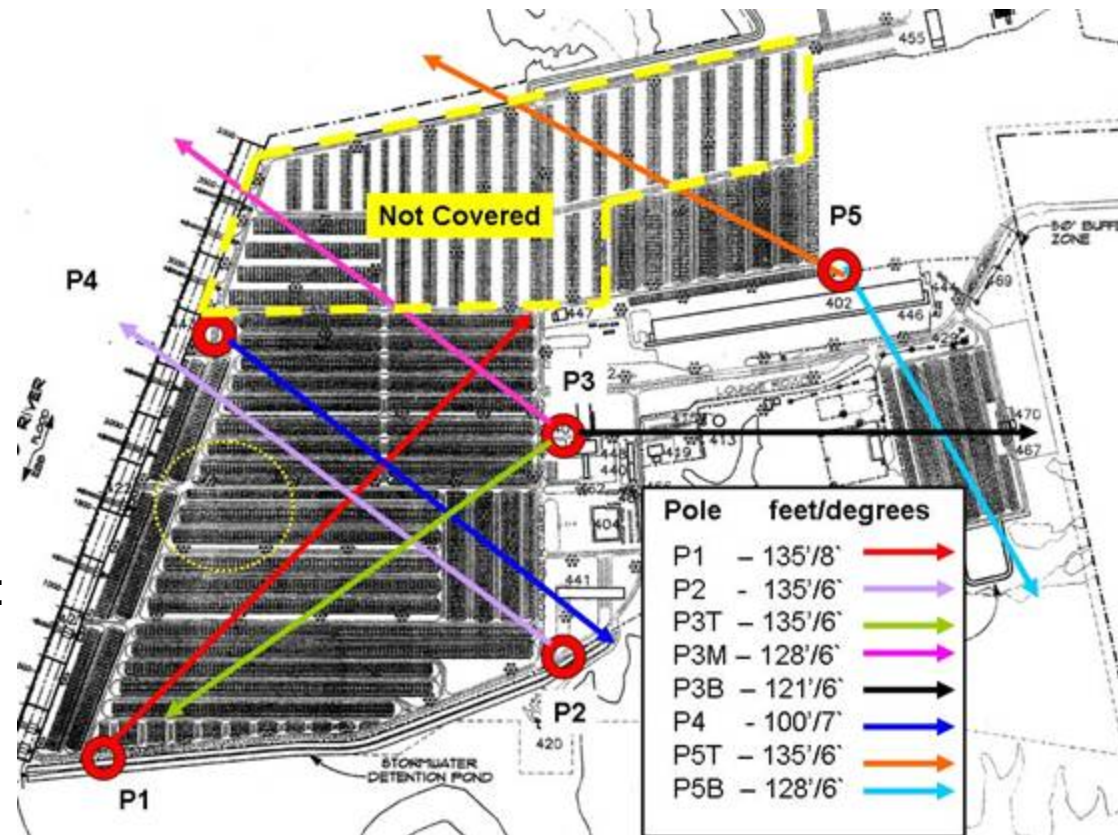
Concerns

- Trenching on port property for additional conduit
- Network coverage, given the dynamic daily yard movement of containers, vessels, trains, and equipment
- Yard configuration flexibility
- **Cost, timeline**

Teklogix / Vivato Proposal for Wando Terminal

Solution offered additional coverage and redundancy

- Five 135' towers and eight Vivato panels
- Infrastructure cost: **\$600,000**
- Estimated timeline: **7.5 months**



Current Wireless Networks

Wando Welch Terminal

- 5 communication towers
- 8 Vivato panels
- 11 Cisco access points

North Charleston Terminal

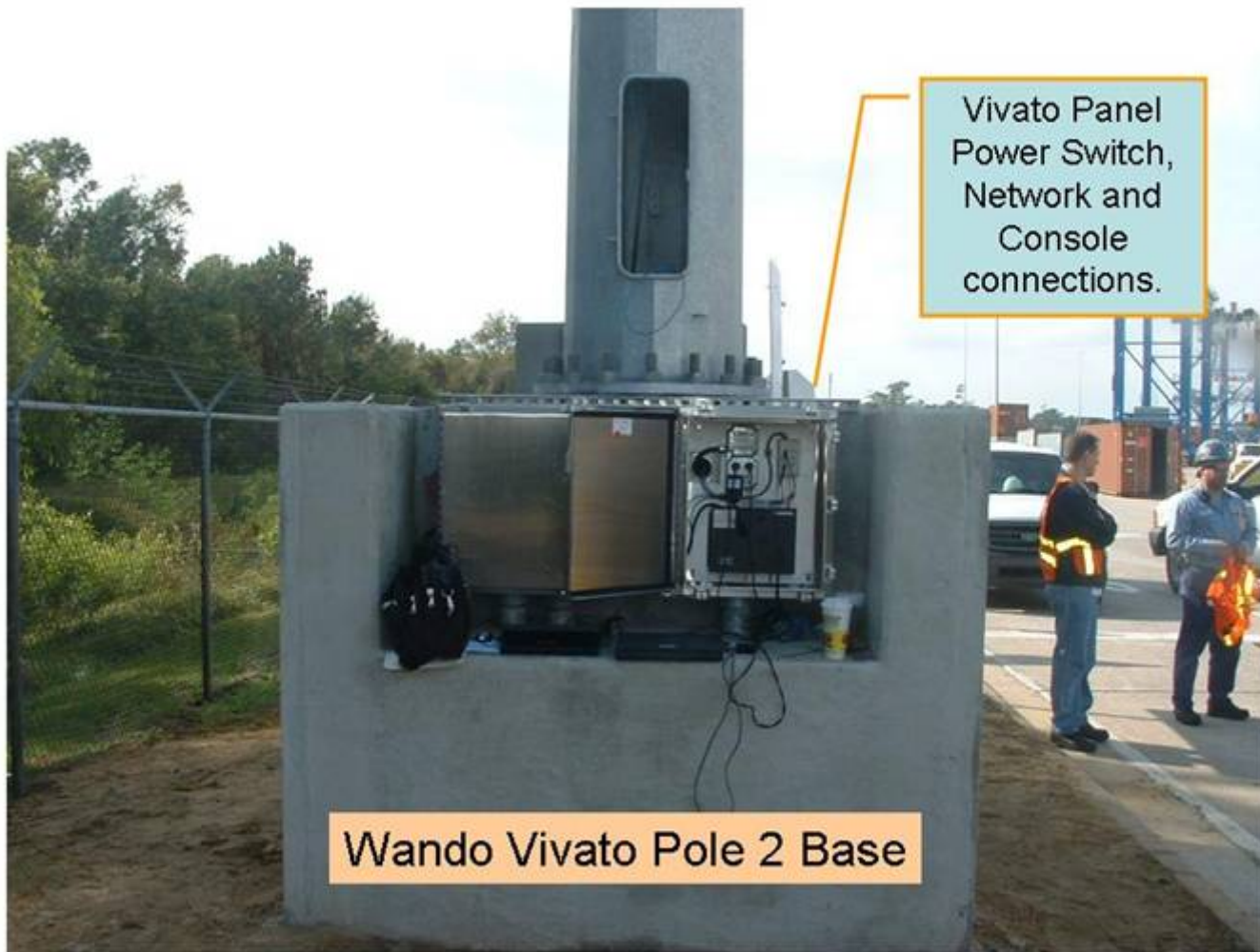
- 1 Vivato panel
- 22 Cisco access points

Columbus Street Terminal

- 8 Cisco access points

Union Pier Terminal

- 1 Cisco access point
- 2 bridges to main office



Vivato Panel
Power Switch,
Network and
Console
connections.

Wando Vivato Pole 2 Base

PORT CHARLESTON





SCPA-Wando-Pole3



PORTCHARLESTON

Thank You!

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