SECURE Out-of-Band Management

Communication Devices, Inc.

CDI

Out-of-Band Management

- Direct "console access" to network routers, firewalls, servers and other systems infrastructure
- Connection OUTSIDE the main network bandwidth – via traditional phone circuits, cellular wireless services or secondary private/public IP networks
- Power control as necessary to restart or reboot attached components
- Security restrictions to prevent outsiders from entering network via an out-of-band connection

CDI Design Principles

▸ Deploy <u>built-in</u> security, to eliminate dependency on the network or other systems for secure operation

▸ Gain control over remote devices for deployment, configuration and management

▸ Respond quickly to failure events, including underlying network failures

▸ Simplify management of devices across large-scale networks for multiple administrators

CDI Product Suite

- Port Authority 100 Series *(PA-100)*
  - FIPS 140-2 validated and FISMA-high approved devices for government customers

- Port Authority 200 Series *(PA-200)*
  - PCI compliant, two-factor authentication devices for financial and commercial customers

- Out-of-Band Manager *(OBM)*
  - Multi-user, SQL-based management software for system configuration and secure administrator access
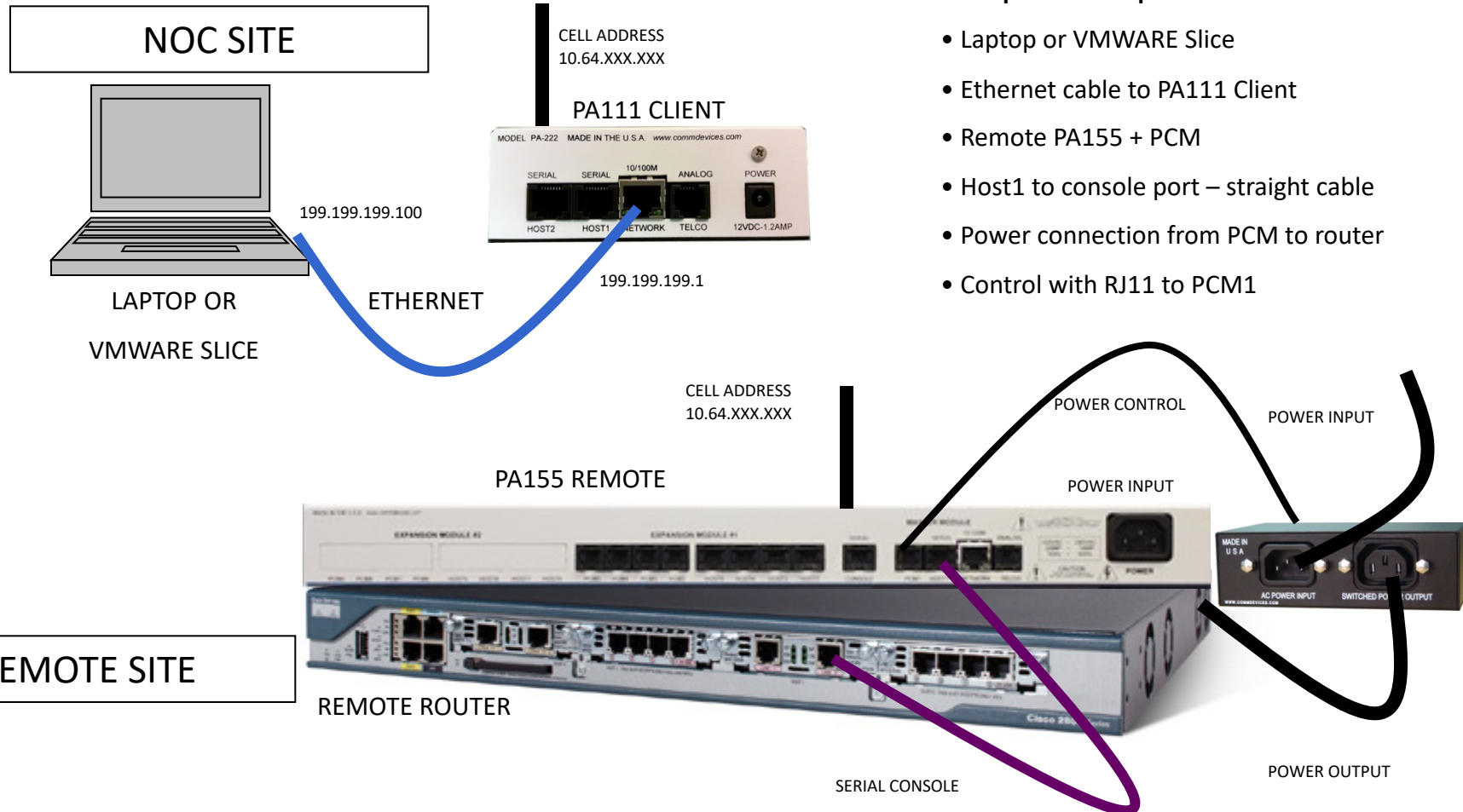
PA-200 Commercial Series

- Designed for all OOB access
- Bundled feature set
- Cost-effective
- Secure two-factor authentication
- RADIUS, TACACS+, SNMP at NOC.
- On-board RSA SecurID authentication (secure access in the event of a network failure)
- Wired / Wireless / Network connectivity options
- OBM Enterprise Manager enabled
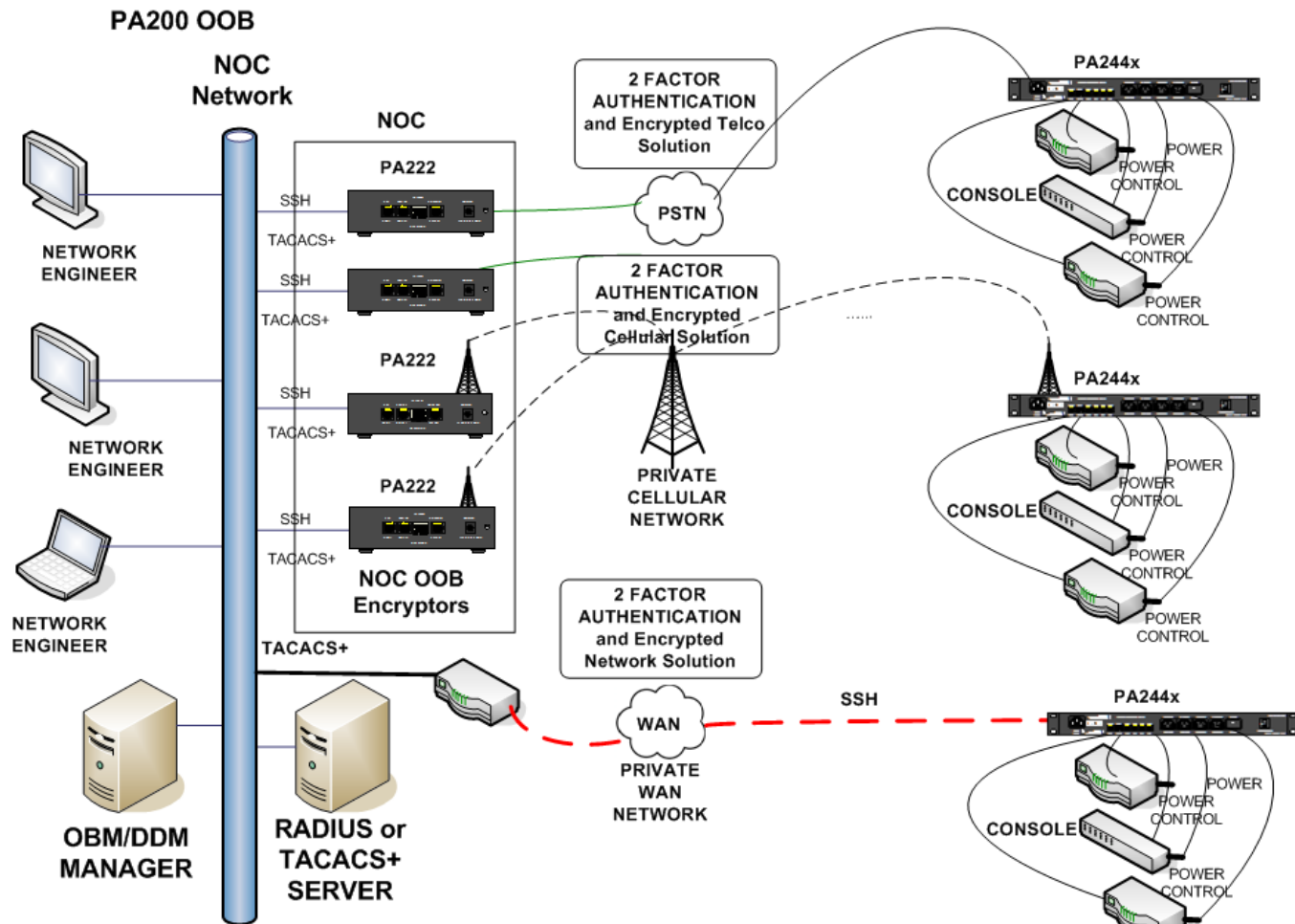
QuickStart Diagram PA-100

Simple Setup

- Laptop or VMWARE Slice
- Ethernet cable to PA111 Client
- Remote PA155 + PCM
- Host1 to console port – straight cable
- Power connection from PCM to router
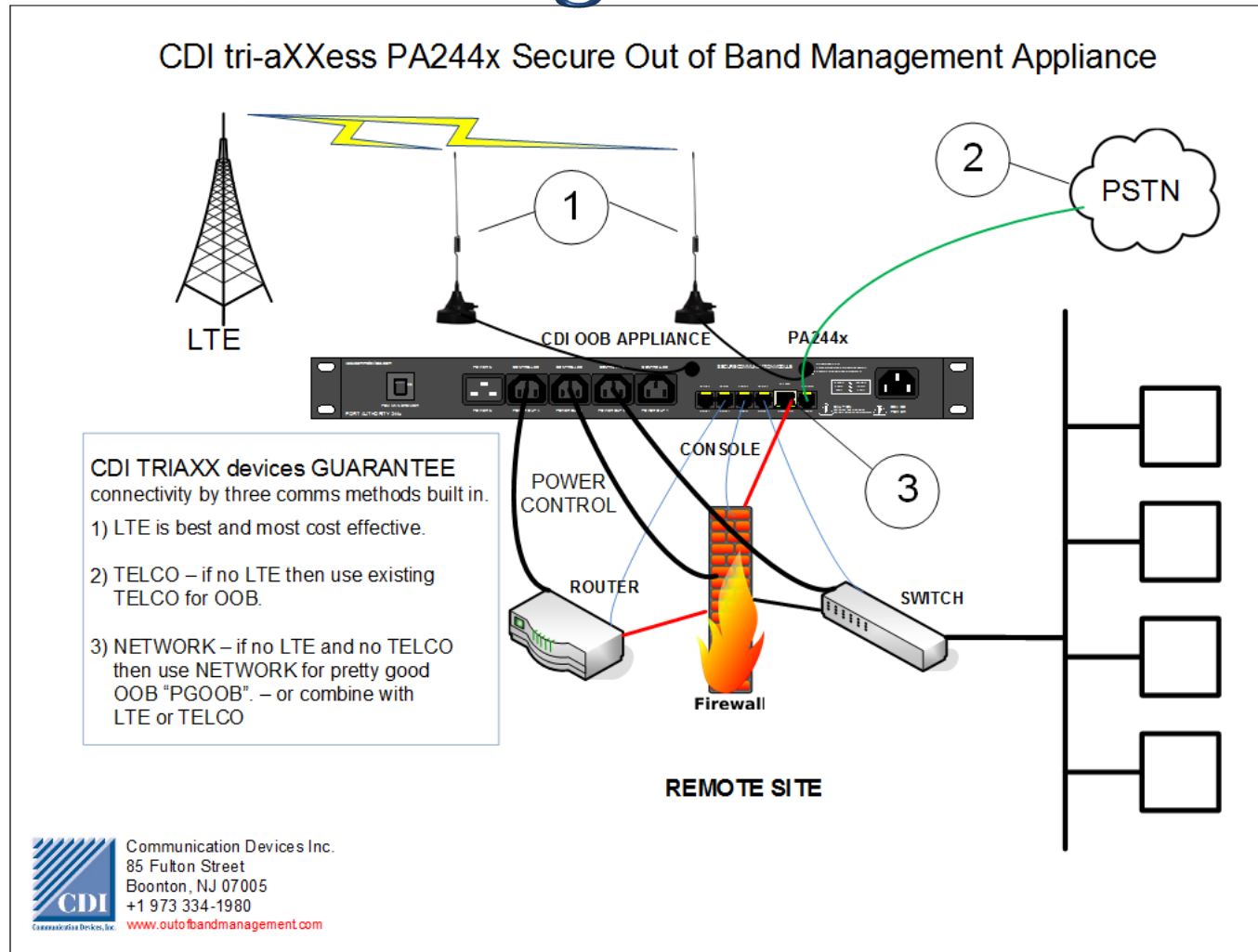- Control with RJ11 to PCM1

NOC SITE

CELL ADDRESS
10.64.XXX.XXX

PA111 CLIENT

MODEL PA-222   MADE IN THE U.S.A.   www.commdevices.com

SERIAL   SERIAL   10/100M   ANALOG   POWER

HOST2   HOST1   NETWORK   TELCO   12VDC-1.2AMP

199.199.199.100

LAPTOP OR

VMWARE SLICE

ETHERNET

199.199.199.1

CELL ADDRESS
10.64.XXX.XXX

POWER CONTROL

POWER INPUT

PA155 REMOTE

POWER INPUT

MADE IN
U S A

WWW.COMMDEVICES.COM   AC POWER INPUT   SWITCHED POWER OUTPUT

REMOTE SITE

REMOTE ROUTER

SERIAL CONSOLE

POWER OUTPUT

CDI

Typical System Deployment

Network, Analog & LTE- 1 chassis

CDI tri-aXXess PA244x Secure Out of Band Management Appliance

LTE

CDI OOB APPLIANCE

PA244x

2

PSTN

1

3

CONSOLE

CDI TRIAXX devices GUARANTEE
connectivity by three comms methods built in.

1) LTE is best and most cost effective.

2) TELCO – if no LTE then use existing
   TELCO for OOB.

3) NETWORK – if no LTE and no TELCO
   then use NETWORK for pretty good
   OOB "PGOOB". – or combine with
   LTE or TELCO

POWER
CONTROL

ROUTER

SWITCH

Firewall

REMOTE SITE

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PA-200 Configuration Options

1 & 2 port w/ 1 & 2 external PCM

4 Port w/ 4 external PCM
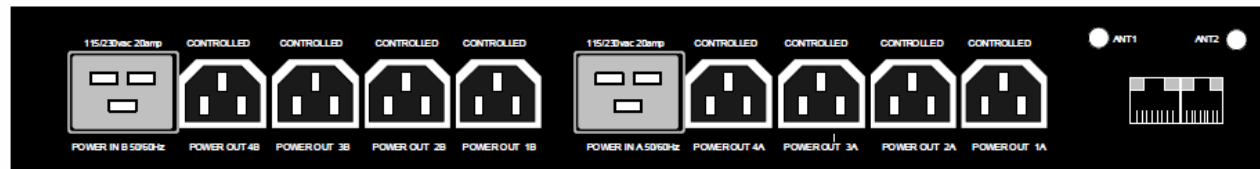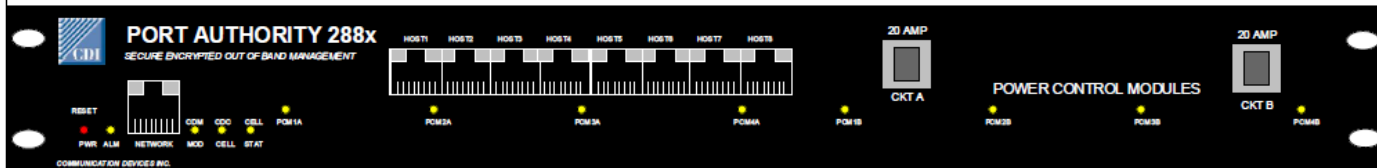
4 Port w/ power outlets

8 Port w/ 8 external PCM

8 Ports, 8 Power- dual power input

CDI PA288x Secure Out of Band Management Appliance
Tri-aXXess has CELL, TELCO, and NETWORK built in

- **DUAL 20 AMP POWER INPUTS**
- **8 POWER CONTROLLED POWER OUTLETS**
- **REDUNDANT POWER SUPPLIES**
- **8 SERIAL CONSOLE OOB PORTS**
- **INTERNAL CELLULAR LTE MODULE**
- **INTERNAL ANALOG TELCO MODEM**
- **10/100 NETWORK INTERFACE**
- **STRONG 2 FACTOR AUTHENTICATION**
- **AES DATA ENCRYPTION**
- **ENTERPRISE MANAGER**
- **PCI , HIPAA COMPLIANT**
- **REAL TIME REPORTING**

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Power Control Modules

▸ Available for PA-100 and PA-200

▸ Integrated or attached, depending on device model

▸ Controlled via RJ-11 cable using TTL signals

▸ One-for-one on any circuit to handle larger loads than power strip-type switch devices

▸ 10amp and 20amp versions 110/230v

▸ Multiple international configuration options

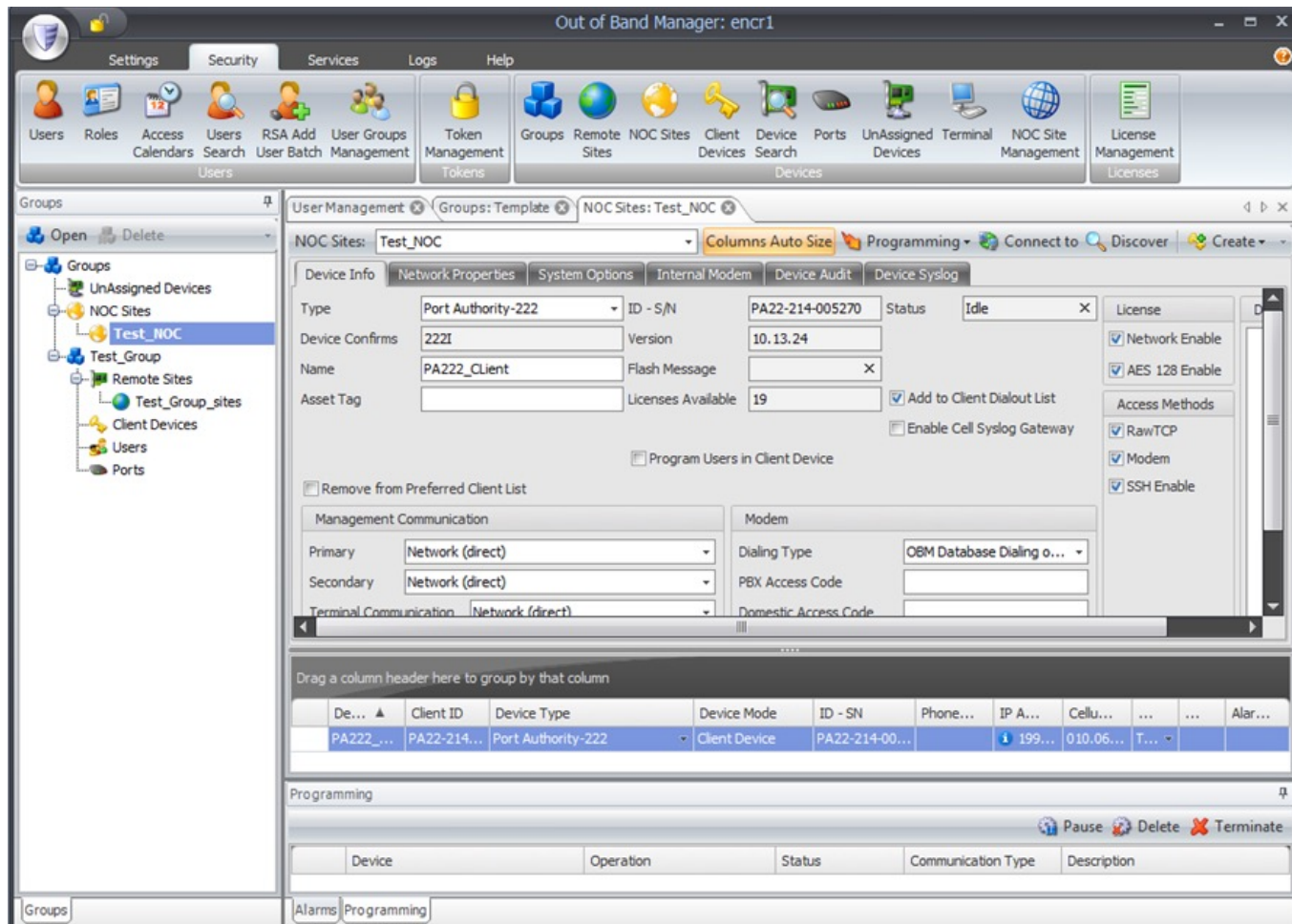# Power Control Modules

PCM 6/10
- 110vac 10amp
- 230vac 6amp
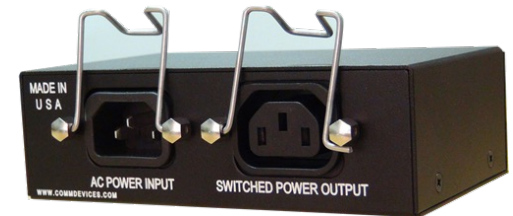
PCM 16/10
- 110vac 20amp
- 230vac 16amp

OBM User Interface

Government Customers

Managed Services Customers

Enterprise Customers

Communication Devices, Inc.

▶ **Corporate HQ**

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Thanks!
We appreciate the opportunity to work with you.

CDI