Repair-Remanufacture

- Developed Business Model and Implementation Plan.
- Built the "Needs Model" with Customer's
- Developed Unique "Industry First"-Services
- On-line Tracking Portal "Industry First"
- Developed 26,000 sq. ft. facility in Tijuana MX for Product Repair, Refurbishment, Upgrade and New Product Production Automated and Manual.
- Developed International Shipping model to minimize worldwide shipping- North America, Europe, South America and Australia.



Consolidated Repair Group Presentation Overview

- Broadband Industry Equipment Issues
- Company Overview
- > Services
- > Unique Features
- > Facility Tour
- > Cost Comparison
- > Summary
- > Next Steps

Broadband Industry Equipment Issues

Product Warranty

 After Years of Construction large number of OEM warranties have expired or are near term

Capital Budgets

- Business climate dictates economical alternatives
- Cost of new revenue streams implementation
- Pressure to accomplish more with less working capital

Operating Budget Savings with Repair CATV **Operations** New Revenue Streams

What is the Consolidated Repair Group?

- CRG is a division of Mainline, Inc.
 - 20 Years of CATV experience
 - Manufacturing
 - Modules
 - Plug-ins
 - Distribution
 - Engineering
 - custom components
 - Repair
 - Refurbishment



Changing Business Environment Requires New Solutions

- CRG Business Model
 - Economical repair services for CATV operators and OEM companies
 - Dedicated support staff
 - Multiple avenues of interaction
 - Web based
 - Phone (888)
 - Deliver enhanced value added services
 - Reports



Consolidated Repair Group Focused Operations

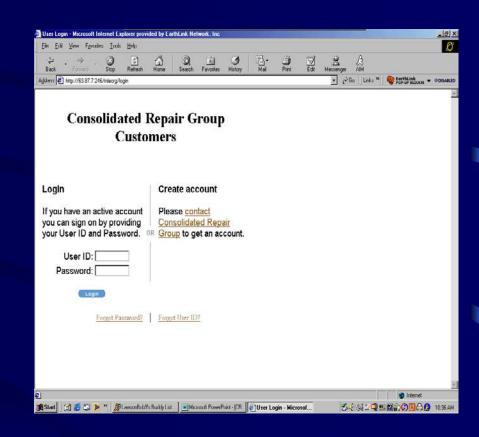
Delivering high quality repair and product re-manufacturing services to the broadband industry

Consolidated Repair Group Service Offerings

- > Repair/Remanufacture
 - Headend Signal Generation
 - Headend Fiber Optics
 - Field Fiber Optics
 - RF Active Devices
 - RF Passive Devices
 - Field Test Equipment

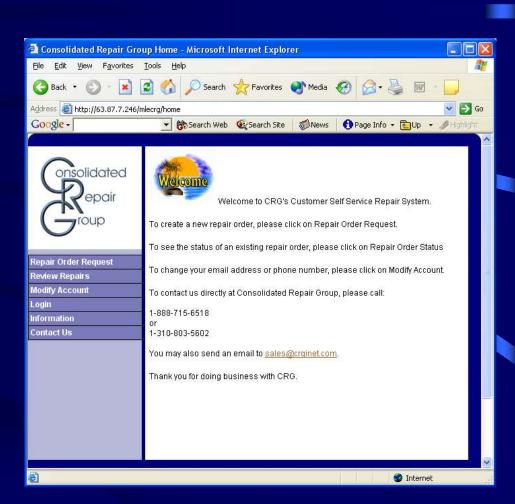
Highlights of CRG Web Interaction

- Web Portal (current)
 - Automatic Repair Authorization
 - Track status of products
 - Hierarchy Access
- ➤ Web Portal (Q4 03)
 - On-line repair documentation
 - Trend analysis data report generation
 - Other Reports -
 - TBD by customers



Main Menu

- Sign in
 - Receive password
 - Use existing password
- Order tracking
 - System, region, corporate
- Report generation
 - Metrics
 - Unit analysis
 - \$'s by week month years
 - Custom reports available.



Highlights of CRG Warranty

- All repaired equipment has a 2 year standard warranty for the parts replaced
 - If components replaced by us fail within that time period due to normal operation, CRG will repair for free and give customer a material credit equal to the original repair charge.
- ➤ We further warrant that all equipment will meet or exceed OEM specification upon return to service!

Unique Customer Services

- Dedicated Support Staff
 - Not selling other products/services
 - Single point of contact for all levels of your organization
 - Available to answer questions
 - Can implement return through web or manually for you if needed



Uniquely Qualified Technical Staff

- Repair Supervisors
 - Industry Experienced
 - Manufacturer Training
 - initial and Ongoing
 - Technical Degree/Cert.
- Repair Technicians
 - Manufacturer Training
 - initial and Ongoing
 - Technical Degree/Cert.



Repair Facility Locations



AM Fiber Optic Repair Station

- Software automated test process
- Manufacturer qualified test procedures
- > ESD workstation
- Late model test equipment
- > Clean environment



RF Amplifier Station Repair

- Software automated test process
- Software assisted fault isolation
- Manufacturer qualified test procedures
- > ESD workstation



Shipping and Receiving

- Linked to software system
 - Assigns product bar coding for tracking
 - Initial point where customer tracking begins
 - Assigns shipping information



Why Repair? Cost Comparison - Distribution Amplifier

> Economics

- Repair of unit is 79% less than cost to replace with new
- Provides lower cost of ownership
- Facilitates potential regular PMCS on equipment to ensure reliability
- Maintains proper operating parameters and specifications



Why Repair? Cost Comparison - Optical Transmitter

> Economics

- Repair of unit can be 80% less than cost to replace with new
- Provides lower cost of ownership
- Can offset cost of new transmitters as you implement new revenue services.



Summary

- > CRG Provides
 - Authorized repair of C-COR products
 - Services modeled after OEM procedures
 - 2 year warranty on parts
 - Value Added Services
 - True web access
 - Reporting functions
 - Dedicated customer service
 - A business partner relationship
 - Economical repair of products