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Logistical Counter March: An Analysis of Reverse Logistics in the U.S. Marine Corps page 18

REVERSE LOGISTICS DIGITAL magazine®









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RLA Conference and Expo, Europe Preview - pg 26

AMSTERDAM SHOW EDITION OFFICIAL MAGAZINE OF THE REVERSE LOSS CLATERY

Edition 39

8th Annual RLA/RLTS Conference & Expo

Over 400 RL Professionals & 200 Companies will be in Attendance

Location: Mövenpick Hotel Amsterdam City Centre

Date: Workshops - June 19, 2012 Conference & Expo - June 20-21, 2012

Two concentrated Days of RL Thought Leadership, Innovation and Networking!



The Reverse Logistics Association Conference & Expo kicks off on Monday with workshops and committee meetings. Tuesday and Wednesday's events include the opening of the exhibit hall, the keynote address, sessions presented by RL professionals, leading academics and interactive panel discussions.



Session topics include "Controlled Reverse Chains for End-of-Life Products," "Returns Management and Asset Recovery" and "Challenges and Compliance with Cross Border Commerce." A wide range of Reverse Logistics companies will be in attendance from repair/refurbishing to recycling/e-waste and transportation logistics.

Be sure to visit the Exhibition Hall where OEMs, ODMs and Retailers will be looking for Third Party Service Providers that can manage Reverse Logistics in Europe and around the world. This is a rich opportunity for OEMs and Branded companies to identify future service partners among the many exhibitors showcasing their Reverse Logistics solutions.

For more information, visit: www.RLAShows.org

BUSINESS SUCCESS HINGES ON LOCATION, LOCATION, LOCATION. **A REMINDER FROM** THE FOLKS IN UTAH,

UTAH, UTAH.

Wondering how to succeed in the economic downturn? Maybe you should ask yourself where instead. Utah's centralized location makes it the ideal low-cost distribution point for the West. And Salt Lake City International Airport's 900 daily flights make our state easily accessible from anywhere in the country. For details about why Specialized Bicycle, Hershey, Procter & Gamble and many others value Utah real estate so highly, call 801.538.8769 or visit business.utah.gov.







Governor's Office of

Economic Development

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RLA Conference and Expo, Amsterdam 2012 Preview

offers Tuesday preconference workshops. Wednesday is the keynote address by Neil Ashworth Operations and **Development Director** followed bv Tesco. sessions presented by RL professionals and leading academics.



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Reverse Logistics of Aftermarket Motorcycle Parts

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Logistics leads us to understand the uproar of aftermarket motorcycle parts.



Smart Energy Solutions Mean Every Paint Job is Green by David Wiles, Volvo Trucks

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With reduced energy and paint use and lower emissions of solvents, its northern Swedish paintshop is the most environmentally sustainable unit of its kind in the world.

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The Who, What, Where, When and How to Improve Global Visibility with Reverse Logistics Partners

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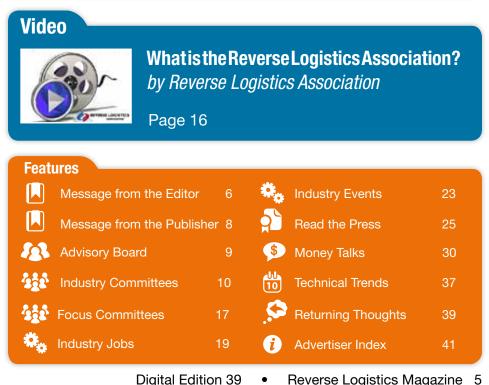
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Feature

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As the need for lean, expeditious, and fiscally conservative sustainment support moves to the logistics forefront, effective reverse logistics management has become paramount in practically all organizations that use forward logistics; the U.S. Marine Corps is no exception.



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Reverse Logistics Please send to:



Logistical Counter March: An Analysis of **Reverse Logistics in the U.S. Marine Corps** by Dave Wikler



Message from the Editor

Amsterdam, I'm told, has 780,000 people who live in Amsterdam own an estimated 881,000 bicycles. Clearly, the Dutch love their bikes but moreover they have found a way to make biking easy, fun and safe for people of all ages. The rest of the worlds large cities should adopt a culture like this, so what is Amsterdam doing?

Well, they have dedicated bike lanes everywhere. Major streets, side streets, parks and along the canals you will see bikes, bike and more bikes. Parking your bike is no problem, not only does this city provide bike racks everywhere but there are also

bike-parking garages. A mammoth parking garage is right at the entrance of the main train station (pictured here).

The city is set up for bikes as a city would be for vehicles. They signal their turns, watch out for crossing traffic and there are signs posted warning pedestrians to watch out for cyclist.

New ideas are emerging in Amsterdam as well. Communal bikes are putting up public parking pads in different locations, you pay a yearly fee and pick up and drop off the bike as you wish. Electric bikes with charging stations are being introduced to those who no longer can pedal long distances but don't want to give up the cycling lifestyle.

What's not to love about a city that bikes? It's good for the environment, you save money on gas and vehicle

maintenance, its amazing exercise and it allows you to be outdoors when now a days most of us spend the day inside.

So ride your bike to help the environment and your wallet!

Happy Travels! Lyndsey Turner, Editor • Editor@RLA.org





ur mission is to educate and inform Reverse Logistics professionals around the world. RLA focuses on the reverse logistics rocesses across all industries. matter the industry — High Tech. Consumer Electronics, Automotive. Medical Pharmaceutical. Food and Beverage, Apparel, or other our goal is to provide RL process knowledge to all industries. We want to educate everyone about the Reverse Logistics processes that are common to all industries and to

be a catalyst for innovation in developing and implementing new RL processes. We have been and will continue to provide our services to industry at a moderate price

service. end-ofparts management. service life manufacturing. logistics, field service, returns processing and order fulfillment (just to name a few) can be little intimidating.

the least. Yet that is exactly Reverse Logistics what the Association provides through membership services We serve manufacturers and retailers in a variety of settings market trends. research acquisitions and potential outsourcing opportunities to 3PSPs. We have gained the attention of 3PLs like FedEx, DHL, USPS and UPS. 3PSPs like Teleplan. Foxconn. Flextronics. Canon Sonv and Jabil, along with smalland medium-sized service

RLA resources help advertise their services to a regional and global audience. OEMs like Microsoft, HP, RIM, and Sony, along with Retailers like Wal-Mart, Canadian Tire, Tesco and Best Buy all participate at our events. Through RLA Events, RLA Connect services and our publications - RL Magazine and the Weekly News Clippings email – we help OEMs, ODMs Branded and Retail companies find service partners and solutions providers that were previously unknown to them.

providers have found that

10th Annual RLA Conference and Expo Las Vegas 2013 America's Premiere Reverse Logistics Event February 9-13, 2013



Over 150 Exhibitors and Sponsors – 1,500 RL Professionals Representing 700 Companies

Make plans now to join us for the 9th Annual Reverse Logistics Conference and Expo on February 9-13, 2012 at the Rio Hotel and Casino.

Monday offers pre-conference workshops and the conference industry reports. Tuesday is the keynote address, followed by sessions presented by RL professionals, leading academics from over 150 individuals.

The Expo where 3PSPs will showcase their RL services and solutions.



If you are a Reverse Logistics professional – don't miss this event!















Message from the Publisher

THINK SESSIONS WITHOUT AN AGENDA

Our staff at RLA is preparing for the Conference & Expo in Amsterdam which will be held on June 19-21 at the Mövenpick Hotel Amsterdam City Centre. I can't think of

a better place to be in June, Amsterdam is just lovely, the museums are world class and going bicycling on the country side along the canals is a must!

I love the fact that over 25% of business

commuters in The Netherlands travel on bicycles to work. It must be the Dutch roots from my mother (Lola Van der Mark) that compels me to leave my home each morning, no matter if rainy or sunny day to get a little exercise on my commute to work. In The Netherlands, commuting by bicycle is common (Wikipedia.org). Starting in 2005 a new record for the average bike trips surpassed

cars (FietsBeraad). They even have a Dutch Cycling Embassy that promotes the use of bicycling as the first form of transportation. Look at the use of Bicycling list by country; The Netherlands 26%, Denmark 19%, Switzerland 11%, Germany 10%, Austria 9%, Belgium 8%, Sweden 7%, the United States, Canada and Australia are at the bottom of the list.

You might wonder why I'm spending so much time on bicycling. Well, in the past I have asked you to "sit down and review.... two areas; non-essential vs corporate objectives." I have found that everyone (including me) needs time to think in order to make these decisions. It takes me just over 30 minutes to travel the 8.3 miles to my office, during that time new ideals and thoughts seem to pour into my mind. By the time I reach the office, I'm full of creative ideas that I can share with my staff.

While visiting companies around the world, I find that most employees don't have time to think, they are doing their job! They don't schedule or plan for thinking. It is a must if you are going to stay competitive with the world market demands of Reverse Logistics. I encourage every company to review employees to see if they have planned some time for "just thinking." Departments should have off-site meetings at least once a quarter

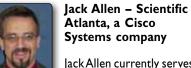
to meet with an agenda of nothing other than to discuss ideas, thoughts about improving their company. A Saturday is best, because no phones are ringing. A breakfast meeting at 7 AM finishing at 9 can fit for a "think session". You will be surprised by the results.

Gailen Vick -Founder & Executive Director www.RLA.org



Board of Advisors

A Board of Advisors comprised of industry experts has been set up to monitor and assist the Reverse Logistics Association management team in making informed decisions. Advisors include:



Atlanta, a Cisco Systems company

Jack Allen currently serves as Director of Global Supply Chain Processes

at Scientific Atlanta. In his role, lack is responsible for the creation, development and performance of Scientific-Atlanta's supply networks in the United States and internationally. His leadership and commitment to the recent success of several product and distribution center transfers, the development of a cross functional supply chain team and the development of an integrated forecasting/ production planning/procurement supply chain planning process resulted in the improvements in Scientific-Atlanta's supply chain and significant annual savings for Scientific-Atlanta.



Christopher Gant -

Chris Gant is Director for FedEx Supply Chain Sales. He is responsible for all business development

strategy and execution for both the FedEx SupplyChain Systems and FedEx Emerging Products Sales teams.

A 20-year veteran of transportation, logistics and electronic commerce, Chris has extensive expertise in the development and delivery of complex supply chain solutions for some of the world's largest corporations inclusive of both Forward and Reverse Logistics. He began his career with FedEx Ground (formerly RPS) in 1989 as an operations coordinator before joining the company's sales team in 1991. He quickly rose through the sales leadership ranks, holding the posts of area sales manager, district sales manager and senior national account manager for FedEx Ground.



Microsoft is currently

of Reverse Logistics Programs and Policies for Microsoft

Devices. In his position Edwin is responsible for development and enforcement of policies surrounding returns and all related costs to the returns and is also involved in the Customer Satisfaction Continuous Improvement Council. Working with

Microsoft Call Center and the Microsoft Manufacturing Operations Edwin is driving the improvement of consumer satisfaction through agent assisted support and on-line support while managing the costs.

Prior to working for Microsoft Edwin worked for labil Global Services as the Director of IT Solutions, where he worked with various teams on the proposal and implementation of reversed logistics services for various companies at the labil factories around the world.



Charles Johnston is Sr. Director of Reverse Logistics at the Bentonville Return Center, WAL-MART Stores, Inc. Chuck has been with WAL-MART for the past 14 years and his responsibilities include Returns, Imports, Exports, Tires and Printing and Mailing Distribution.



Hartmut Liebel was named President, Jabil Global Services (JGS), in October 2004. He joined labil as Executive Vice President in July 2002 and was named Chief Operating Officer in



Bernie Schaeffer is corporate vice president of Post Sales Support for Motorola Mobility. His global organization is responsible for providing both in- and out-of-warranty repair services to both consumers and carriers, provides consumer support services through call center, web access and on-device solutions, is the fulfillment engine for value-added services, manages asset recovery on equipment returns and is the source of information on product field reliability.





Charles Johnston -WAL-MART Stores,

Hartmut Liebel -**Iabil Global Services**

Bernie Schaeffer -Motorola

Doug Schmitt – Dell

Doug Schmitt serves as VP of Dell's Global Field Delivery organization with international responsibility for global break/fix

field engineers, same day service delivery, spare parts depots, parts planning, service logistics, repair, reverse logistics and Dell's global command centers. In addition to Doug's role as VP Global Field Delivery he has responsibility for Americas Support Services. Previously, Doug held executive and senior management positions in service and finance at Dell, Inc.

Doug came to Dell in 1997 from Sequent Computer Systems where he held various senior level finance positions. Before Sequent, Doug worked in the banking sec-



Tony Sciarrotta -**Philips Consumer** Electronics

Tony is Senior Manager of Asset Recovery at Philips Consumer Electronics

North America. In this position, Tony leads returns reduction and entitlement initiatives for mainstream consumer electronics, and is also currently concerned with further driving the implementation of electronic registration for Philips products at leading retailers. Working with Philips Sales, Service, Marketing, and the Philips Business Excellence Group, Tony is helping drive several teams to improve the consumer experience and subsequently reduce the high rates of products returned with no defect found.



Susan Wackerman - Hewlett-Packard Company

Susan Wackerman is currently a Sr. Operations Manager in the Americas

Supply Chain for HP's Imaging and Printing Group. In her position, Susan is responsible for the Recycling Operations for HP Americas and the Returns Operations / Remarketing for HP Americas Imaging and Printing Group. This includes supply chain development, reverse logistics, disposition and processing, refurbishment, resale, channel management. For Recycling Operations her product responsibilities cover all HP product categories including inkjet and laser printing, digital imaging, supplies, scanners, shared printing, PCs, notebooks, desktops, servers.

Complete biographies of Advisory Board Members are available from the RLA site at: www.ReverseLogisticsAssociation.org/ company_advisory.php



Reverse Logistics Association Industry Committees

Industry Committees are set up to provide a standing forum for **Reverse Logistics** Professionals to meet on a regional and global basis and discuss common Reverse Logistics issues at the RLA Conferences & Expos. Industry Committees educate the industry on reverse logistics:

- "Best Practices"
- Consumer Satisfaction Issues
- Regulations on a Worldwide & Regional Basis
- Processes that can Reduce Costs

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Focus Committees & Regional Focus continued on to page 17



Reverse Logistics of Aftermarket Motorcycle Parts

by Maricon Williamsg

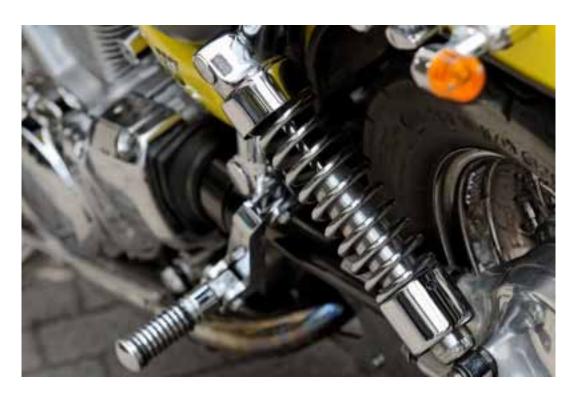
Logistics understand the uproar of logistics of aftermarket strategies. Aftermarket spark aftermarket parts. Here are the ways of say that it is doing good. are placed in several layers its overwhelming support... Different parts may mean of distribution between

leads us to When we try to track the different

distribution motorcycle motorcycle parts we can plugs and filters, for instance producer and end user.

Aftermarket parts have high outourcing percentage. In fact, companies some are even supplying European the market. Some of companies these centralized have

warehouses. Aside from that, they also provide emergency back up for (VOR) vehicle-off-road demands through airfreight. Negotiations and sales are made more accessible and



effective because they are extending their facilities Delivery nowadays is more through agents. Nonetheless, efficient than the past. A some are relying on their conclusion has been arrived franchised dealers for at stating that we have distribution, sale and faster deliveries because delivery. the broader range of stock.



Another factor is availability the of back up and facilities to support it. The supply chain is maintained and bolstered. The delivery notes aftermarket of motorcycle parts is quite impressive.

Every aftermarket

motorcycle aftermarket's quality in order They to compete with the Original Equipment Manufacturer parts. Others are trying to slash the price down and are creating a cheaper version of aftermarket motorcycle parts.

is There an stigma attached to the minds of the motorcyclists. It is all about presumed the poor quality of aftermarket the motorcycle parts. This is definitely a misnomer. There are aftermarket motorcycle parts that can actually compete with the OEM's quality. However, there are also those wh cannot topple its well-established identity. Nonetheless, what is important is the rider's Aftermarket

parts aftermarket or not, the choice better and better. This manufacturer is battling lies in his discretion alone. is also brought about by with their competitors. They However, his choice must independent compete in different ranges. be guided by the knowledge, motorcycle repair shops. Some are improving the observation and experience. These shops recommend the should be

aftermarket use of aftermarket

reminded of how to choose the best choice.

motorcycle choice. Whether he choose parts logistics are getting

motorcycle parts. Consequently, this phase has proved a more profitable aftermarket sector. They are the ones who boost the



sales of aftermarket parts The without the need too much coming from pools of experts marketing.

accumulated help from warehousing, transport, inventory, sale and logistics make the aftermarket market

Is your company being Robbed?

Up to 3-15% of your bottom line may be under attack.



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To learn more visit: www.RLA.org

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worldwide.

Maricon Williams Author writer and for many publications



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At this year's RLA Conference & Expo in Las Vegas you may have noticed a television

crew roaming around. The crew was there to capture response to the conference

and make a video that displayed the essence of the Reverse Logistics Association.

They were also filming segments for a new video series in RL Digital magazine called

RLA Rewound. As you view it, you may see some familiar faces. A big thank you to

everyone who took time out from their busy conference schedule to stop and talk

with our reporter. We hope you will share the video with friends and colleagues

as you introduce them to the association and explain what we do and how we can

support them. Stay tuned, because we may be talking to you for the next series of

videos for RLA Rewound.

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- eBuilder
 - Sanjeev Kakar, Intarvo Technologies Ltd

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Chairperson - Sanjeev Kakar, Intarvo Technologies Ltd

• Ian Rusher, Cisco Systems



Logistical Counter March: An Analysis of Reverse Logistics in the U.S. Marine Corps

by Dave Wikler, Marine Corps

the Out Door, Jim Whalen wrote logistics has evolved very rapidly readiness. his often quoted statement, "In within the Marine Corps to the an ideal world, reverse logistics point that its reverse logistics would not exist", which is to chain contains an average of say, in a perfect logistics and approximately \$300 thousand supply chain scenario, we would per day more in principle endnot have to worry about reverse items (PEI) and material than the logistics operations because there forward supply chain that supplies would be no returns, defects, or repair parts and other items to waste. The reality is that we do its operational units (Scharfen, not live in an ideal world and, 1994). Furthermore, on any contrastingly, defective and given day there is an average of unwanted material abounds. As over a thousand individual items the need for lean, expeditious, of equipment and material in the and sustainment support moves to chain (Swift & Chandler, 2003). the logistics forefront, effective Reverse logistics management in reverse logistics management has the Marine Corps is increasingly become paramount in practically paramount to their fiscal savings all organizations that use forward relating to inventory, equipment logistics; the U.S. Marine Corps availability, compliance with is no exception.

fiscally conservative Marine Corps reverse logistics the Code of Federal Regulation

In his 2001 article, In Through In the last eighteen years reverse (CFR), and overall mission

There has been a metamorphosis of the relationship between the military and civilian sectors shaped by a greater and more intimate technological collaboration, an increase in contracted logistics support (CLS), and the constraints of and lessons learned from the Global War on Terrorism (GWOT), which has ultimately level-set their relationship to the extent that their present-day shared knowledge is equivalent.

The Marine Corps' definition of reverse logistics captures the essence of the civilian sector definition as "the science of planning and carrying out the reverse movement of equipment material to support and re-acquisition, maintenance, evacuation, and disposition thereof" (MCWP 4-12, 2002). This definition is intended to meld with the Marine Corps' mission and function of providing power projection from the sea, using the mobility of the United States Navy to deliver combined-arms task forces rapidly, thus its reverse logistics processes are tailored to this end in breadth, depth, and efficiency alike. The Marine Corps' in-depth perspective on reverse logistics centers on the sustainment, reconstitution, and logistics capability (IELC) that Using business models from



redeployment of equipment allows for a reduction in repair the civilian sector, specifically and material as to support the cycle times, transportation, twenty-first century computer expeditionary functions of its inventory, and defects, while and operational logistical processes. eliminating the risk of over technology, the Marine Corps' This has fostered the requirement production and over processing logistics integration reduces for an integrated and embedded (Swift & Chandler, 2003). duplicative processes, while

RL Careers

Advanced Digital Broadcast SA

- Sales Representative Eastern Europe
- Sales Representative Western Europe

Arrow Electronics

- Business Development Manager
- PEMCO Inside Sales
- Solutions Development Manager

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Best Buy - Corporate Field Services Director - East Coast



Best Buy - Secondary Markets Business Development Manager Click Here

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Product Support Services (PSSI)

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embedded support allows for 4790.19, 2001). This "oneexpeditious response to shifts stop-shop", of sorts, provides anticipatory capabilities and less operational logistics support, channels.

In the later 1990s, the Marine Corps merged its two largest logistics support entities, the Marine Corps Logistics Bases, which dealt with mostly new acquisitions fielding and depotlevel repair of principle end items, and the Marine Corps Material Command, which was tasked with provision of repair resources and management repairables secondary of (SECREPs), to form the Marine Corps Logistics Command (MARCORLOGCOM) (MCO

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in asset posture and supply a source of worldwide chain needs allowing for greater integrated logistics that includes contaminated reverse logistics supply chain, distribution, depotlevel maintenance management, and a world-wide strategic prepositioning capability in support of the operating forces and other supported units to maximize their mission readiness sustainability (MCO and 4000.58, 2005). A major tenant of this initiative is the support of enterprise level and program level total life cycle management (TLCM) through reverse logistics processes. Of these, the most prolific and beneficial are the Depot Level Maintenance Secondary Repair (DLMP), Stock Rotation (SRP),

Management (SRMP), and the Enterprise Returns Management Programs (ERMP).

Depot level maintenance can be independent of the location at which the maintenance or repair is performed, the source of funds, or whether the personnel are government or commercial (government contractor) employees due to co-location and collaboration with key vendors and CLS providers. The organic workload is accomplished by Marine Corps Multi-Commodity Maintenance Centers (MC3) located in Albany, Georgia and Barstow, California and other secondary service depots throughout the world. The MC3s provide low cost, high quality overhaul, rebuild, depot-level repair, and modification of ground equipment, while maintaining a high rate of reliability, flexibility, and responsiveness (Winkle, 1996).

A critical component of the Marine Corps reverse logistics and self-sustainment capability is its ability to procure and repair components for its entire ground equipment stock. As part of the SRP, SECREPs consist of components that can be repaired, which generally proves more economical and timely than re-purchase, or recycled. The Marine Corps at one time maintained spare SECREPs at seven principal locations; each operating independently of the others, which resulted in excess inventory service-wide because of the isolation of the inventories and inherent mathematical flaws in the Marine Corps'

sparing methodology 1996). (Winkle, The Marine Corps reconfigured their SRP to form enterprisecentralized wide management of SECREPs, which included accountability, responsibility, and funding, thus reducing inventory cost from \$41.6 to \$25.9 million and increasing endavailability item from 72 to 89 percent (Scharfen, 1994).

The Marine Corps' SRMP strives to

enhance equipment readiness, prolong equipment and material service life, and to achieve full use of resources and assets prior to the end of their useful service life and eventual disposal (MCO 4400.194, 1997). Prepositioned equipment is periodically used for short periods in training exercises and real-world operations, but is used less than equipment in fleet units. Equipment in high operational tempo units that receive the most usage are rotated with available equipment which receives considerably less usage (i.e. administrative storage/ deadlines, prepositioned stocks, etc.), thus achieving a more consistent maintenance history and dispersion of equipment wear.

throughout the Marine Corps to execute stock rotation throughout its inventory are the Replacement & Evacuation (R&E), Service Life Extension (SLEP), Mid-Life

Rebuild, Product Improvement equipment and materiel readiness Program (PIP), and Weapons and operational effectiveness, Exchange for major training prevent recurring materiel commands. deficiencies, and improve user satisfaction with Marine Corps The Marine Corps' ERMP materiel (MCO 4855.10B, gives thorough consideration 1993). It provides a user-friendly to establishing criteria and product quality deficiency implementing procedures and reporting and a data feedback systems for managing defective system that facilitates appropriate materiel, excess materiel, and materiel requiring maintenance, documentation, action/resolution reporting, and specific points of repair, or overhaul. It uses incontact for all phases of PQDR transit asset visibility capabilities, whenever possible, as the basis processing. for identification and selection of materiel to be returned from The Marine Corps Warranty organizational echelons to Administration program works wholesale locations in order to in close association with the leverage various supply structure PQDR program by providing and the contribution of such a quick and efficient vehicle returns to improve inventory for the correction of material performance (MCO 4440.31E, deficiencies and capture of 1999). Two of the most prolific subsequent data for future ERMP components are the analysis. Since the beginning Various programs in use Product Quality Deficiency of 1985, the Marine Corps has Report (PQDR) and Warranty been required by the Department Administration programs. of Defense (DoD) to obtain and include warranties in contracts for equipment with a unit cost The primary goals of the PQDR of more than \$100 thousand or a

program are to maximize





projected total procurement cost of more than \$10 million (MCO manufactures 4105.2., 1987). The Marine chain members, and the use of logistics financials on a near real-Corps currently has 246 types comprehensive resource planning time basis enabling them to avoid of equipment, representing tens solutions, the Marine Corps has over- and double-obligation of thousands of individual items been able to accurately assess the as well as seamlessly and of equipment, manufactured by true value of its reverse logistics, rapidly divert recouped funds over 50 separate companies in created visibility and traceability to new or alternate obligations. 29 different states that fall under throughout the reverse logistics Maintenance personnel have contractual warranty constraints channel, and instituted a the capability to see locations (MARCORLOGCOM webpage, continuous improvement mindset SECREPs need to be repaired, 2012).

Reverse logistics, although at times referred to in the Marine Corps community as plainly "logistics" or by more specific element titles, is in many ways the life-blood of the Marine Corps and intrical to the success of its expeditious operations. In short, due to its need for resourcefulness in a constrained budgetary environment, the Marine Corps, since its inception, has been

support and the

(Swift & Chandler, 2003).

The Marine Corps annual logistics budget is slightly over \$10.3 billion, which does not include principle enditem procurement or Defense Logistics Agency (DLA) affiliated programs, but does include transportation, purchase of consumable materials. purchase of repair parts, and

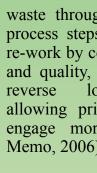
re-inventing, purchase and maintenance of re-using, and SECREPs (U.S. GAO webpage, re-furbishing 2012). Comprising a little more practically than one third of the Marine everything Corps' total budget and less than it owns. The four percent of the total Defense of, Department budget for logistics interest (U.S. GAO webpage, 2012), in, all reverse it is logical that there is a scant logistics efforts chance for any tangible surplus. commence at However, the Marine Corps highest consistently closes out the fiscal level within the year under budget for logistics, organization, which is directly attributable to and thus have its reverse logistics initiatives the full support that yield a recurring savings of senior and of \$2.9 to \$3.4 million annually intermediate (U.S. GAO webpage, 2012). managers and Through web-based IT solutions,

leadership. such as the newly fielded Through the Oracle-based Global Command use of cross- Support System-Marine Corps functional (GCSS-MC), the Marine Corps t e a m s , has achieved an end-to-end collaborative visibility and traceability of educational its reverse logistics channels. relationships For individuals who perform w i t h finance functions, this provides and supply the capability to manage reverse

receive preventive maintenance, or be rotated, to include specific defects, as well as where equipment and material is in other entities maintenance cycles, or where repair parts are located locally, nationally, or globally to mitigate double-ordering and facilitate the shortest repair-cycle time possible. Finally, supply personnel can achieve more accurate and efficient inventories in a multi-location environment,

consumables and repairables to process steps, and reduction of implementation, include warranty and general re-work by controlling processes and correction/prevention, and repair parts and material to reverse logistics channels of 18 elements ranging from supplies, purchase orders, and Memo, 2006). work orders, should be deployed within an extended reverse logistics chain.

The Marine Corps continuous with a robust Environmental process improvement (CPI) Management Division (EMD) initiative has proven to be one of that is charged with evaluating the more intrical reverse logistics and continually improving best practices since gaining its environmental momentum in the first half of and protection programs, with 2004 (SecNav Memo, 2006). emphasis on carbon emission Through the methodology of reduction, and training and Improve, and Control (DMAIC), 1998). Efforts center on carbon this has enabled its workforce emission, hazardous waste and to achieve enterprise-wide recycling, and environmental reverse logistics and equipment compliance standardized business tools. Environmental



There are twenty-six major Marine Corps installations within the United States, each compliance Define, Measure, Analyze, education (MCO 5090.2A, readiness objectives through through the Marine Corps the aggressive implementation Some of the most tangible results System (MCEMS) which is a Power (CHP) at four of its major have been the elimination of framework of five interrelated installations in early 1999. The



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project future requisitions of waste through minimization of components (policy, planning, inspection expiration dates, transfer surplus and quality, therefore cleansing management review) consisting entities that require them, and allowing primary processes to risk mitigation/prioritization to determine when and where engage more freely (SecNav funding and management. This framework is consistent with those used by other military services and Federal agencies and with International Organization for Standardization's (ISO) an international 14001. standard for environmental management systems (EMS) (MCO 5090.2A, 1998). The Marine Corps' EMS emphasizes continual improvement through effective policy, planning, implementation, checking and preventive or corrective action, and management review (MCO 5090.2A, 1998).

> management The Marine Corps embarked on Management and use of Combined Heat and



cogeneration power plant concept was adopted with combustion turbine generators that produce up to 7.5 MW of electricity and hot water, generated using waste heat from the turbine exhaust, for heat and domestic purposes in most buildings aboard these installations. Absorption chillers were implemented to produce chilled water from the CHP generated hot water for air conditioning systems. With an efficiency of over 64 percent, the plant uses 24 percent less fuel than a conventional energysupply system. Based on this comparison, the CHP system avoids an estimated 19,700 metric tons per year of CO2 emissions, equal to that from the electricity used by more than 2,400 homes (Menassa, et al, 2012). The installations reported an average annual energy costs reduction of \$5.8 million (EPA webpage, 2012). This gained the Marine Corps recognition by the Environmental Protection Agency (EPA) with the Energy Star Combined Heat and Power (CHP) award for taking an efficient, clean, and reliable approach to generating power

Over the past twelve programs. vears, the Marine Corps has capitalized on this successful program to employ CMPs at practically all of its installations, and improvements being made are continually.

The Marine Corps' reverse logistics movement equipment

material to support maintenance, nation requires the Marine Corps re-acquisition, evacuation, and to be more versatile, expeditious, disposition thereof, has proven and engage in operations on vital to its modern day mission multiple fronts; as conservation and function of providing combat of the environment and nonpower through combined-arms replenishable natural resources task forces in an expeditious becomes increasingly paramount, manner. The IELC and use of and federal regulations respond twenty-first century IT and with greater restrictions, so does telecommunications technology reverse logistics management are tailored in breadth, depth, and in the Marine Corps become efficiency alike to facilitate the increasingly intrical to their fiscal sustainment, reconstitution, and savings relating to inventory, redeployment of equipment and equipment material in support of the Marine compliance with the CFR, and Corps' expeditionary operational logistics functions and processes. End-to-end visibility and traceability has been achieved through the use of IT solutions such as GCSS-MC and its commitment to CPI to reduced process cycle times, improved safety, provide affordability and flexibility to elevate their ability to meet emergent requirements, improved customer and satisfaction. Additionally, the Marine Corps has achieved the cultural shift and transition to green and carbon credit supportive practices through the establishment of EMDs to manage the MCEMS, and

and thermal energy hazardous waste minimization from a single source. and reutilization and recycling

> It has been said that the ultimate goal of a successful reverse logistics program should be to phase itself out over time through systematic process improvements (Whalen, 2001). The Marine Corps will most likely never reach this goal as it will undoubtedly become more reliant on its reverse logistics programs in the future, and as of it continues to realize the utility and and value they hold. As the availability, their overall mission readiness.

> > RLM



twenty-five Marine year Corps veteran logistics of ground and equipment maintenance management.

Dave Wikler currently works for Headquarters Marine Corps, Installations & Logistics as a civilian Logistics Management Specialist and Supply & Maintenance Analyst.

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Read the Press

BrightPoint Americas Announces has been appointed to the company's Distribution Agreement to Offer **ALCATEL ONE TOUCH Devices**

Indianapolis, IN-8 May 2012-Brightpoint, Inc. ("BrightPoint"), a global leader in providing device lifecycle services to the wireless industry, today announced that its subsidiary, Brightpoint North America L.P., has entered into a distribution agreement with TCT Mobile Multinational Limited, a subsidiary of TCL Communications. Under the terms of the agreement, BrightPoint Americas will provide distribution services to CDMA regional carriers and the ACG group to support the delivery of ALCATEL ONE TOUCH branded wireless devices including Android and full qwerty smartphones to retailers and customers throughout the United States. CLICK HERE

Multi-Billion Dollar Global Services Company Selects ServiceCentral's Software Solution

Atlanta, GA-8 May 2012-ServiceCentral Technologies announces that a leading global services company has selected ServiceCentral to provide the core service management software platform for its reverse logistics solutions across the Asia-Pacific region. The multi-billion dollar company will utilize ServiceCentral's solution within their service channels to manage product service, return and repair processes from retail partners to their distributed logistics hubs. CLICK HERE

Research In Motion Appoints New Chief Operating Officer and Chief **Marketing Officer**

Waterloo, ON-8 May 2012-Research In Motion (RIM) today announced key additions to its executive leadership team with the hiring of Kristian Tear as Chief Operating Officer and Frank Boulben as Chief Marketing Officer. CLICK HERE

Microsoft Adds New Board Member Redmond, WA-3 May 2012-Microsoft Corp. today announced that Stephen J. Luczo, chairman, president and CEO of Seagate Technology PLC,

Avnet **ROUND2** INC. Donates to The Nature Conservancy in Observance of Earth Day Initiative Austin, TX—3 May 2012—ROUND2 INC., an Avnet company within Avnet Integrated Resources and leading eRecycling service provider announced today that it will be donating \$1,480 in observance of their Earth Day initiative that ran throughout the month of April. ROUND2 pledged to donate a tree for every 5,000 pounds of electronics processed in the month of April. With the assistance of employees and several sponsored corporate electronics recycling events in April, ROUND2 was able to accumulate and process 7.4 million pounds of electronics. The Plant a Billion Trees campaign, started by The Nature Conservancy, was established to help rebuild the Atlantic forest on the coast of Brazil. For every dollar donated, one tree will be planted and will directly help The Nature Conservancy's work in in a new Barnes & Noble subsidiary, the region. CLICK HERE

Many happy returns

Dav

Cambridge, ON-2 May 2012-Are vour old cell phones, computers, ipod/ mp3 players, digital cameras and toner cartridges gathering dust in your office or home? Don't know what to do with them? Greentec has all the answers. CLICK HERE

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board of directors, bringing the board's size to 11 members. CLICK HERE

Integrated **Resources'**

2 May 2012-BURLINGTON Global Mobility Products Inc. (GMPI) has experienced triple-digit growth for the past three years, all thanks to broken cellphones. CLICK HERE

Greentec Makes Every Day Earth

Brightstar Selected as dtac Thailand's **Exclusive Supply Chain Provider**

Miami & Bangkok-2 May 2012-Brightstar, the world's largest specialized wireless distributor and a global leader in services and solutions for the wireless industry has been appointed as the exclusive supply chain

provider to dtac Thailand, one of the country's leading mobile operators and part of the Telenor Group of Companies. This three-year agreement includes strategic sourcing, device management, supply chain planning, channel support and warehousing and logistics services. CLICK HERE

Pantaloon to demerge its branded retail biz

30 April 2012-Future Group, in an announcement made to the exchange, said it intends to spin-off Pantaloon Retail from Pantaloon Retail India Limited. On completion of the process, the demerged entity will automatically get listed on the NSE. CLICK HERE

Barnes & Noble, Microsoft Form Strategic Partnership to Advance World-Class Digital Reading **Experiences for Consumers**

New York & Redmond, WA-30 April 2012—Barnes & Noble Inc. and Microsoft today announced the formation of a strategic partnership which will build upon the history of strong innovation in digital reading technologies from both companies. The partnership will accelerate the transition to e-reading, which is revolutionizing the way people consume, create, share and enjoy digital content. CLICK HERE

BrightPoint and Foxconn Global Services Division s.r.o. Collaborate to Deliver Technical Aftermarket Services Throughout EMEA

Indianapolis, IN-25 April 2012-Brightpoint, Inc., a global leader in providing device lifecycle services to the wireless industry and Foxconn Global Services Division s.r.o., which is part of Hon Hai Precision Industry Co. Ltd. also known as Foxconn Technology Group, the world's largest manufacturer of mobile devices, today announced a strategic alliance to provide technical aftermarket services to both existing and new customers throughout the EMEA region. CLICK HERE

8th Annual RLA Conference & Expo

June 19th-21st 2012

Workshops - June 19, 2012 Conference & Expo - June 20-21, 2012

The focus of 3PSPs will be to help European OEMs & Branded companies become aware of RL support on a global basis. This is a rich opportunity for OEMs and Branded companies to identify future service partners. There has never been an opportunity like this for 3PSPs to sit down faceto-face with the key outsourcing decision makers from the major OEMs and Branded Companies.

Be sure not to miss some of our exciting sessions & workshops



Jaap Hazewinke - Service Parts Planning Manager

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Derek Scott -European Parts Supervisor





Ian Towell -National Returns Manager





Charlie O Shaughnessy -Global Returns Manager





Timmy O'Dwyer -Service Programs Manager European Service Logistic







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KEYNOTE SPEAKER Join us for the Eighth Annual RLA Conference & Expo in EMEA. Companies from throughout Europe as well as many other international delegates will be in attendance. ODMs and OEMs will be looking for 3PSPs that can manage Reverse Logistics in Europe, along with identifying solutions for Asia and the Americas.

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Pre-conference workshops will be held Tuesday. Wednseday kicks off with the Welcome Address by Gailen Vick, President of RLA followed by the Keynote Address, speaker sessions will commence after lunch and continue throughout the day and into Thursday. Thursday ends with the closing remarks and lucky draw.





Mövenpick Hotel Amsterdam City Centre











For complete details visit www.RLAShows.org

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Smart Energy Solutions Mean Every Paint Job is Green

by David Wiles, Volvo Trucks

Having cut the footprint of its facilities. between. With reduced energy and paint use and lower emissions of solvents, its northern Swedish paintshop

consumption of its vehicles sustainable unit of its kind baked in an oven to harden over the past few decades, in the world. Even so it the finish. Multiply this Volvo Trucks is now can offer customers more process by tens of thousands improving the environmental than 850 colours to choose of vehicles each year - not

> You need about 20 litres of paint for a single truck cab,

fuel is the most environmentally and each cab must then be to mention the heating and cooling needed for other parts of the paintshop – and it becomes clear that such a facility could potentially

have a huge impact on the environment in terms of materials and energy.

But with heat from trash, cooling from nature and paint consumption nearly halved, Volvo Trucks' paintshop in Umeå, northern Sweden, has become a shining example of how smart thinking can shrink the environmental footprint of a major industrial facility.

UP. **INVESTMENTS EMISSIONS DOWN**

For many years now, staff at Volvo Trucks' paintshop have been focusing on reducing the emission of solvents into the air and improving energy efficiency. Every stage of the painting process has been mapped, right down to the smallest detail. Everyone has been encouraged to come up with suggestions and ideas, and major investments have been made. The results are impressive. Between 1999 and 2008, energy consumption was reduced by 30 per cent. This success is even more remarkable in view of the fact that the amount of painting being undertaken has increased significantly during the same

FIGURE 1: YOU NEED ABOUT 20 LITRES OF PAINT FOR A SINGLE TRUCK CAB.

period, partly because of the Energy savings have been fact that plastic components achieved by re-using the air that were previously painted in the spray booths and at in Belgium are now painted in the Umeå paintshop.

"When components are not painted in the same place, it's incredibly difficult to make sure they are the same shade as the rest of the cab. That's why we chose to bring them here," explains Hans Venngren, Volvo Trucks' global process manager for surface treatment.



the plant. The air in the plant is used as incoming air in the painting process, while around 75 per cent of the air in the spray booths is re-used. As a result, the need for air brought in from outside has been dramatically reduced.

FUEL FROM WASTE

Improved operational planning, such as turning off machines when there

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line, has also helped reduce part by converting domestic system into the pipes at the energy consumption. Other waste into energy at a nearby plant. "We then use the water energy-saving include the installation of replaced oil in the heating says Venngren. "This has energy-efficient motors.

"When we started jointly painting the plastic with the cab, the temperature in the paint-hardening ovens was cut by more than 50 degrees "Since Venngren. required lower temperatures, cooling heat the ovens."

are gaps on the production District heating – fuelled in through a two-kilometre pipe measures power plant – has also in various cooling systems," electric process and the remaining enabled us to replace many LPG in the afterburning of the cooling machines that system is now being replaced used refrigerants such as by environmentally friendly CFCs*." dimethyl ether (DME) produced from biomass.

WHAT A COOL IDEA

and this naturally reduced One of the most spectacular several different phases the need for energy," says energy savings, however, and, as a result, the use we comes from the plant's of paint and solvents system. The has we were also able to switch Umeälven river flows just reduced, from liquefied petroleum gas outside the plant and under emissions into the air. In (LPG) to district heating to it there is an underground 1988, these emissions were river that is always cold, approximately 70 grams per regardless of the season. square metre of cab surface This cold water is pumped painted.

The paintshop has been modernised and production has been streamlined in been significantly together with



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Flextronics Reports Fourth Quarter Results Click Here

Brightpoint Reports First Quarter 2012 Financial Results

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Avnet, Inc. Reports Third Quarter Fiscal Year 2012 Results

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Ryder Reports First Quarter 2012 Results Click Here

"The corresponding figure today is less than 10 grams, which is a fair bit below the EU's limit of 55 grams per square metre. Even if we still have some way to go, we are still really satisfied with the work we have done," says Venngren.

RIGHT THE NAILING COLOUR

While it is its environmental that performance has attracted attention, the Umeå paintshop is also remarkable for the sheer range of colours it is able to apply for truck cabs. "We are able to comply with virtually any customer request," says Denny Westerlund at Volvo Trucks' communications department in Umeå. As a somewhat extreme example he cites the case of a customer visiting the plant to order his new FIGURE 2: vehicle, accompanied by his asked what colour he wanted for the cab, he shrugged and turned to his wife. A truck driver herself, she hesitated for a moment before holding out her painted nails and saying: "I want this colour."

ADHERE PROPERLY.

"No sooner said than done," Volvo Trucks takes great says Westerlund. "They took pride in the massive range a sample of her nail polish of colours available at its and then started running tests Umeå paintshop. The palette to reproduce it. In the end extends to some 850 hues, she got a cab that matched tints and shades, which her nails. This gives some means that customers are idea of what we can do." certain to get the exact



PRE-TREATMENT. THIS IS ONE OF THE "CHEMICAL BATHS" IN THE PROCESS. WHICH ENSURES wife. When the customer was THAT THE METAL IS TOTALLY CLEAN SO THE PAINT CAN

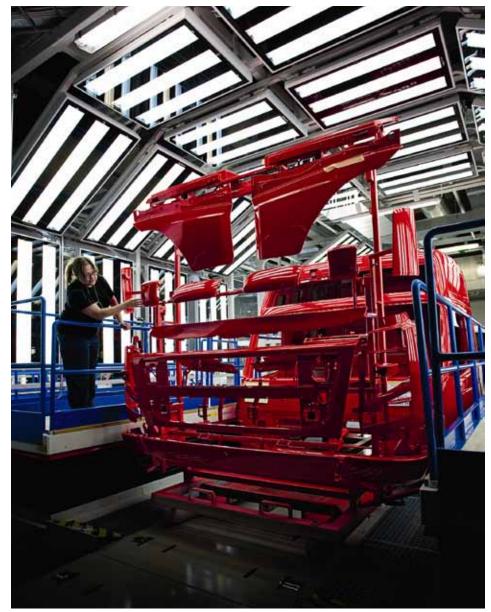


FIGURE 3: MOST OF THE WORK AT THE FACTORY IN UMEÅ IS AUTOMATED AND HANDLED BY ROBOTS. HOWEVER. AFTER THE TOPCOAT HAS BEEN APPLIED, EVERY CAB IS CHECKED MANUALLY TO ENSURE THAT THERE IS NO DAMAGE, NO SCRATCHES OR UNEVEN PAINT APPLICATION.

match for their livery or *CFC shade among Volvo Trucks' freons. customers, but green will never go out of style.

stands for existing fleet. Winter White ChloroFluoroCarbon may be the most-chosen compounds, also known as

> Facts about Volvo Trucks' paintshop in Umeå:

Top-ten colours

Even though the Volvo Trucks paintshop in Umeå has more than 850 colours to choose between, it goes without saying that not all of them are used that frequently. Here is the top-ten list:

- 1. Winter White
- 2. China Red
- 3. Signal Yellow
- 4. Ruby Red
- 5. Volvo Blue
- 6. Cream White
- 7. Royal Blue
- 8. Clean White
- 9. Gentian Blue
- 10. Indian Red

41,000 is the number of MWh by which the Volvo Trucks paintshop in Umeå reduced energy consumption its between 1999 and 2008.

RLM



David Wiles Specialties: Environmentechnoltal ogy, automotive. aero-

space, paper and packaging, ITC, engineering and travel.

Photo: Sören Håkanlind











Interested in Networking?

RLA Seminars are one-day events held around the world that bring RL professionals together to address specific industry topics pertinent to OEMs, Retailers, and 3PSPs. The highlight of these events is a facility tour showcasing efficient return, repair and services operations from industry leaders such as Best Buy, HP, Walmart, Motorola and Dell.

Upcoming RLA seminar:

Bentonville, Arkansas Facility Tour: Walmart Returns Facility

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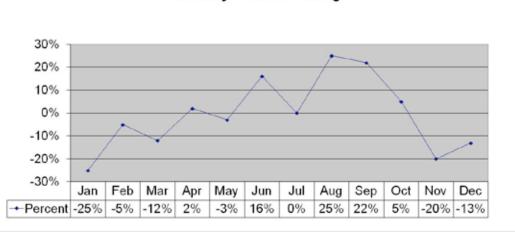
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Technical Trends

Calling Your Shots

from metaphors Game 3 of the 1932 World Series. Ruth indeed hit a home run to very slim. A little labor overtime consumed at the wrong time can destroy operational performance. A critical need is a consistent trend for navigation products all method of performing technical analysis of the gross return trends so that operational performance is in the springtime in support can be better planned.

Thomas Welsh and I have been discussing the dearth of meaningful guidance in predicting inbound trends of defective materials. To that end we wanted to outline some thoughts and suggestions to help you improve your own forecasting methods.



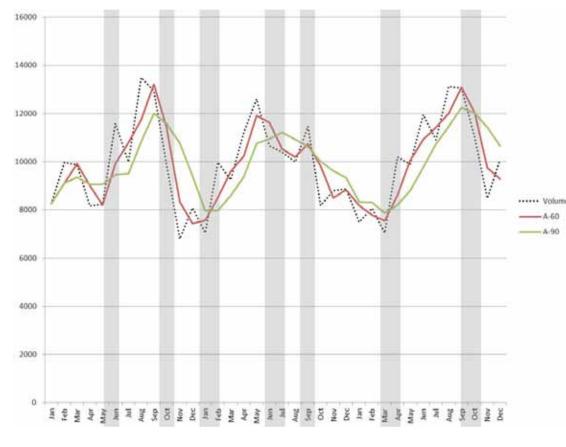
Monthly Percent Change



line. Each product line will be returns accurately. different, but there will be some trending. For example, the RL stems from the two sales peaks they have each year. The first

One of the most enduring There is a great deal of science of dads-N-grads gifts followed Baseball around technical analysis for by winter sales for Christmas. originates from Babe Ruth in finance and stocks. Much of this There is a similar pattern for is beyond the scope of what we are consumer notebook computers, The legend is most generally trying to do here, but nonetheless while business class machines recounted as Ruth pointed to the very interesting. I especially are more level loaded across the center field bleachers as a sign like Elliot wave theory and year. As a first step in improving to the fans of his intent to hit a how it leverages the Fibonacci your forecasting you need to take home run. On the next pitch, Series. Very cool techniques a look at your data and aggregate for finance and equities just not the gross return numbers over center field. While many wax very relevant to reverse logistics time. From this you can then about the accuracy of what really forecasting. The main hinge extract the overall seasonality happened that day, the goal is still that all RL forecasting must start trend of your product returns. one of significant importance. In with is some understanding of Just this basic metric will help reverse logistics the margins are the seasonality of your product greatly in forecasting your

> In the cell phone side of the business I collected data for ten years or so. The seasonality trend I documented grew steadily throughout the year.



returned to send the defectives is not perfect. Since it is based and materials ordering.

For developing the triggers, the best tool I know of is an adapted

Then had a large 'dip' of returns build a signal pattern that points in the summer. We had always to changes in return rates to help of information. The resulting assumed this was because people signal needed adjustments to at the distribution centers were staff and material levels. Like on vacation and waited until they all analytic indicators the process off for repair. Having this data on averages, the method is tuning for the best forecasting. charted then served as the map for inherently lagging. However, so assessing planning throughout is the trending of seasonality data. the year. Once you perform a The key to using these methods seems incomprehensible to similar analysis and define your is in performing analysis to your new managers. By using tools seasonality profile we then need historical trends to find inflection some tools to apply that will give points. Also because you can see us triggers for adjusting staffing the data in real time the previous signals allow you to anticipate changes based on the hints that historical receipts provide.

version of Moving Average The chart above reflects MACD Convergence/Divergence, AKA: signals from three years of MACD. With this method you repair data. In this example the build two moving average trends two trends are set at 60 and 90 that have different periods. One days. The exact days to use in that reacts faster, the other with averaging the MACD lines will a more dampened response. As vary and should be customized these trend lines cross they will based on your experience when

reports. Feel free to experiment and tune the data for the specific market behavior your business experiences. Notice over a three year period there seven signals with two key indicators per year. One in the fall and the second in the Depending spring. on the intensity of the vacation dropoff there may also be a leading indicator in the summer. For even better analysis, overlay turn-aroundtime or repair backlog (on а separate axis) and you will discover a goldmine

you build your own

data sets provide a clear and manageable set of triggers to address your business and provide enough levers to allow One last benefit is that of training. Much of our business like these we can better expose the experienced vision senior managers have in seeing through the fog and calling the shots.

RLM



Cassidian Communications. an EADS North America Company in Frisco Texas.



Reverse Logistics Partners

Successful Reverse Logistics receiving, shipping, depends on many partners Do not forget your internal performing functions such as transportation, RMA processing, receiving and sorting, repair or fulfillment. The Reverse Logistics challenge is to quickly, efficiently and effectively process each returned unit, while minimizing costs and inventory. This challenge can be extremely difficult when you need to rely on multiple partners around the globe to help you get each returned item processed.

A Best Practice being utilized by many manufacturers' is to improve visibility. But how can you get the same visibility from a small partner on an island in the south pacific as you can from your multi-national shipping partner down the road? An approach to improving your visibility is analyze the who, what, where, when and how of your Partner operations interaction, and relationships.

Who: All partners, large and small. Create a list of each Reverse Logistics partner and the functions they perform (e.g.

this analysis.

Where: If you have not done this generated for each key process at already, map out the locations and regions of each partner, as well as the region they serve.

When: The best answer here is real time. But the need for true real time data visibility is often not as critical or as expensive if you can be flexible. For instance, day end updates may be satisfactory, especially if the work is performed while your decision team is in another time zone sleeping.

What: List out what key data you need to have visible in order to improve your performance. You need to monitor your Reverse Logistics processes. The two key areas you will need to monitor for your processes are: 1. transactional data and 2. balance data

For instance: what repairs were performed today (transactional)

The Who, What, Where, When and How to Improve Global Visibility with

repair). operations as you work through

and what is the balance of units in process at the end of the day in the repair area (balance data).

Visibility data needs should be each partner, such as:

- Inbound Shipments expected arrival date, overdue
- Receiving received today, on the dock but not processed
- Inspection/Sorting results of inspection/sort (like No Trouble Found or Scrap)
- Test and Repairing results of Test and Repair, Units on hold or Awaiting parts
- Finished Goods repairs completed to finished goods
- Shipments Outbound backorders. in process, percent filled
- Discrepancies. Exceptions and Issues - unidentified receipts
- Inventory daily ins and outs. balance on hand, refurbished stock ready for re-sale, free stock that can be moved to another partner in need.

How: Now that you know the data you need, how will you get . it? How do you ensure it data is accurate and useful? How will you easily analyze the data? How can you ensure all partner data is consistent so you can consolidate it? To address these questions you need to outline your data requirements and then ideally get all of your data into one central data repository for access and analysis:

- Define the data you need: Provide your partners with a detailed list of the data you Unfortunately, the need. Reverse Logistics industry and the varying needs of partners and manufacturers will make it very difficult to develop your own standard data set. But it is time well spent, since if you can measure it, you can manage it.
- Define when you need it: Work with your partners to ensure you are getting timely data
- Provide a place to upload the data: Different partners have different capabilities. Ideally you can provide for all:
- Larger partners may send data to you via XML or EDI
- Smaller partners you can provide software or web screens for your partners to use to process or collect data results. Alternatively you enable them to download the data from your system and upload data to your system via an easy access partner web based tool for batch or spreadsheet uploads.
- Email or spreadsheets better than no data, but try to move away from these - they are difficult to consolidate and often result in lost or forgotten

data items.

- Provide your partners with the tools they need: It is often not practical for the partner to integrate for everything you need. When there are gaps, best practice companies provide their partners with the tools they need to capture the data, such as:
- Access to the Corporate System or ERP – ideal, but often this can be expensive and require significant training.
- Web Based Reverse Logistics software or Web based screens and tools: Many companies are now very successfully utilizing Reverse Logistics software or web based sites and tools for visibility. With a web based Reverse Logistics system partners around the world have 24 x 7 access to:
- Record the result of processing (e.g. receipts, disposition, test, repairs, shipments)
- View the data they have provided and related data that can help them perform their tasks.
- View select data from other partners, such as shipping data to ensure a shipment has been delivered.
- Receive immediate feedback. such as warranty validation before starting a repair.
- Collaborate and share tasks, such as collaboration between receiving and customer service on receiving to quickly exceptions resolve issues and continue processing.
- Sophisticated processing web based handheld scanners and printers are now available, allowing you to provide your small or mid sized partners

with the web applications they need to inexpensively achieve the same high end warehouse processing sophistication that your large partners have.

An easy to learn environment - well designed web applications can significantly reduce training time.

Consistent Processing when you provide the web based tools, all users will be following the same standardized methods and rules, resulting in significantly reduced managing or auditing time requirements.

Improved visibility and good data will help you and your Reverse Logistics partners achieve significantly better, faster and more reliable results (even for the very small partners in far away places).

Good Luck!



Paul Rupnow -Reverse Director, Logistics Systems, Andlor Logistics Systems Inc. (604) 687-1130 www.Andlor.com

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