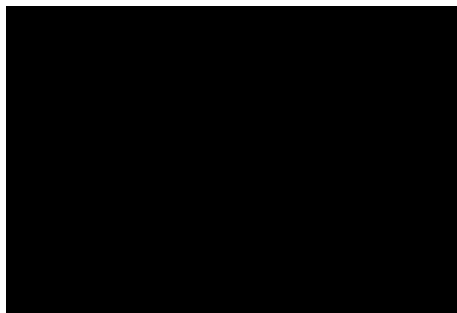


# *RAPID – Readily Accessible Parts Information Directory*

RAPID Manager: David Palmer



# Plant Inventory Challenges

## ■ Inventory Growth

- Data Quality: reorder of existing inventory, inability to identify duplicate stock
- Contingency / Outage surplus: OEM won't take it back, Work Package requirements change, etc.
- Demand planning: BOMs, Min/Max, aging plant
- Q-Level, Repair management, Condition monitoring
- Cash locked up in surplus and low turn stock: millions of dollars

## ■ Sourcing

- Do you know all of the available Sources?
- Obsolescence / Equivalency Evaluations
- Increased lead times
- Counterfeit / Fraudulent Items

# Plant Inventory Challenges (2)

---

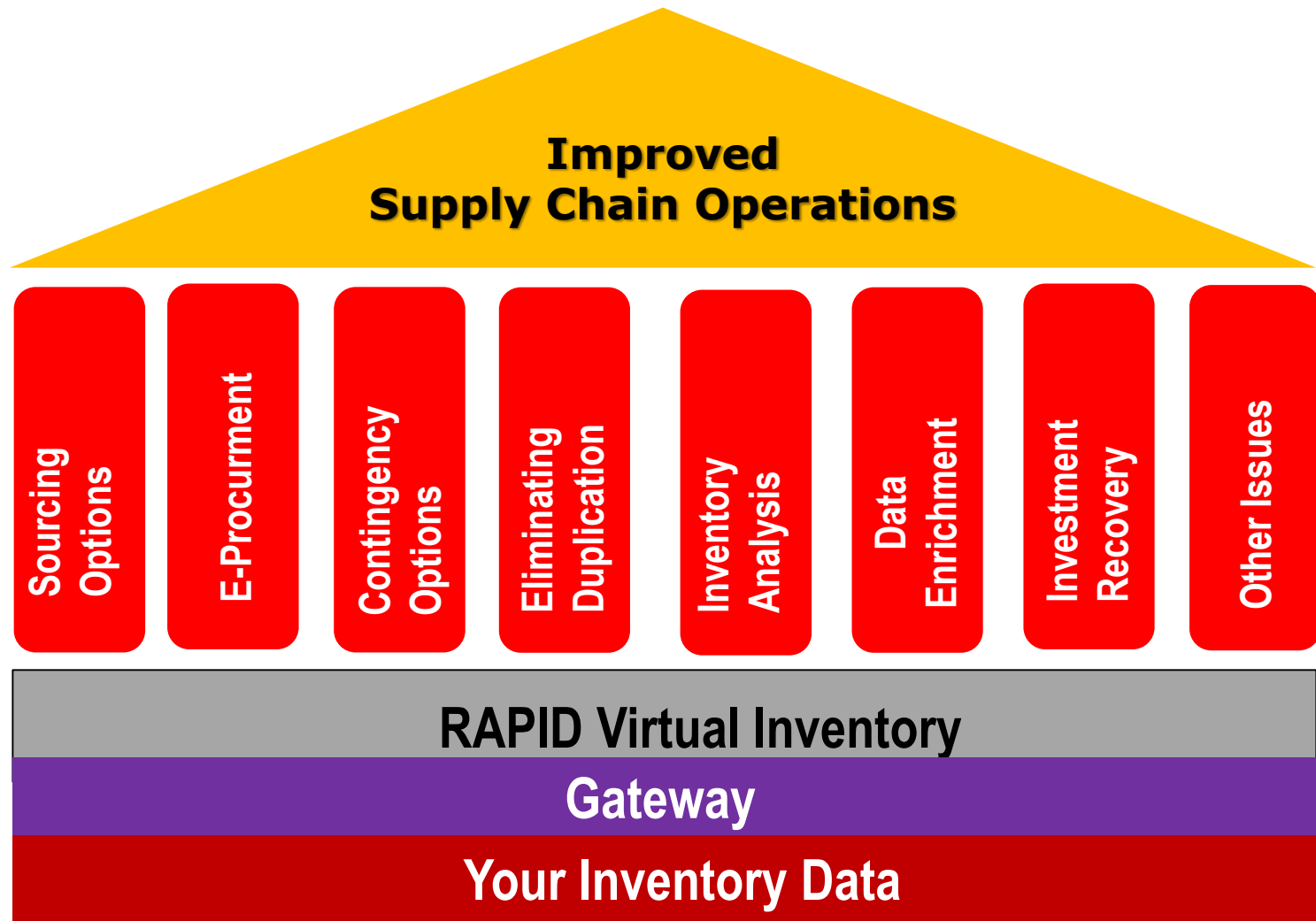
- **Divesting**
  - Decommissioning plants (increasing)
  - Surplus and Stranded
  - Selling more surplus (vs. scrapping)

# Specific Challenges

---

- **Access to larger inventory database**
- **Contingent Parts**
- **Alternative (Solutions) to Obsolete items**
- **Selling more Surplus (Investment Recovery)**

# “Building a Better Supply Chain”



# RAPID – What is it?

- **RAPID is a virtual inventory database** used by the power industry to locate, buy and sell Generation, Transmission and Distribution parts
- **RAPID is a virtual community** used by over 6,700 supply chain professionals

The screenshot displays the RAPID database interface. At the top, the 'RAPID' logo is visible. Below it, there are tabs for 'Parts' and 'Obsolescence'. A search bar contains the text '2575C' and a magnifying glass icon, followed by an 'Advanced...' link. On the left side, there is a 'Filters' section with various search criteria: 'Search Type...', 'Quantity...', 'Quality...', 'Part Number...', 'Manufacturer...', and 'Part Name...'. Below these, there are checkboxes for '- All -' (checked), 'Disc', and 'H...'. The main area shows 'Part Search Results' for '2575C'. It includes a header for '[Admin-Only Download Results]' and 'Page 1 of 5 < Previous Next > [+]'. The results are categorized by 'For Sale (3)', 'Datapool (38)', and 'All (41)'. The table lists parts with columns: Part #/Mfr, Description, Qty, Owner, and Hidden. The results include: 'TYPE 2575C Teledyne-Farris' (VALVE, SAFETY RELIEF, SIZE 4", SET 220 MC-STEAM SEAL HEADER SYS...), '4" X 6" 2575C Teledyne Farris...' (VALVE, RELIEF, SAFETY, 4 IN X 6 IN ...), '305205 Vendor Stocking' (DISC, VALVE, DIAPHRAGM, 5-1/4" DIA, 000122583, ADDITIONAL IN...), and '5204' (DISC, FARRIS ITEM 10 #5204).

Part #/Mfr	Description	Qty	Owner	Hidden
TYPE 2575C Teledyne-Farris	VALVE, SAFETY RELIEF, SIZE 4", SET 220 MC-STEAM SEAL HEADER SYS...	1	Louisville G&E Mill Creek	N
4" X 6" 2575C Teledyne Farris...	VALVE, RELIEF, SAFETY, 4 IN X 6 IN ...		Ppl Montana Colstrip Station	N
305205 Vendor Stocking	DISC, VALVE, DIAPHRAGM, 5-1/4" DIA, 000122583, ADDITIONAL IN...	3	Entergy Arkansas White Bluff	N
5204	DISC, FARRIS ITEM 10 #5204	2	Lower Colorado	N

# **RAPID** – How does it work?

- **RAPID** **automates** the upload and **daily update** of inventory data directly from your materials management system.



***RAPID***

# ***RAPID Gateway – The key to unified automation***

- **Automates the upload and daily update of client's inventory data directly from their materials management system**
- **Easily configured by your I.T. Team**



# RAPID – Who uses it?

- Over 550 domestic non-nuclear units (>220 GW)
- Every nuclear plant in North America, plus Nuclear stations in Argentina, Belgium, Brazil, South Korea, Slovenia and Spain (approx. 135 units)
- 40+ Suppliers

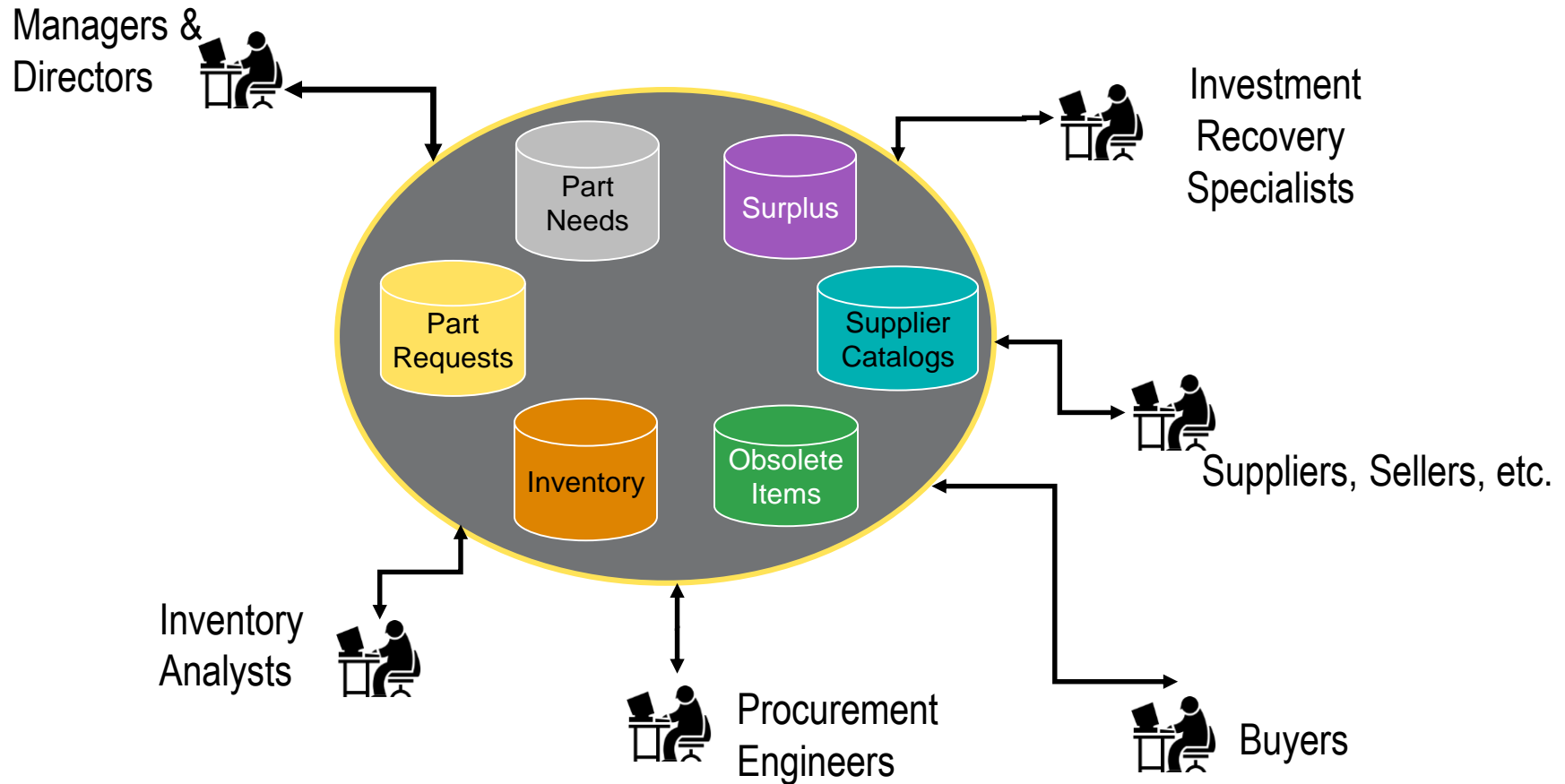


# **RAPID – What's in the database?**

---

- **Over 8.5 million line items**
- **Over 300,000 parts specific to Transmission/Distribution**
- **Over 40,000 parts specific to CT / CCGT / HRSG**
- **Growing number of parts to support Renewable Generation (Hydro, Wind, Solar, etc.)**
- **Many complete Supplier Catalogs**
- **Hundreds of thousands of parts marked “FOR SALE”**

# ***RAPID – for everyone who touches your parts***



# RAPID – Part Descriptions and Contacts

**RAPID** Welcome: Bob Gibson  
Your Account | Sign out

Parts | Obsolescence **ANALOGIC** Advanced... How can...

Part Search [Admin-Only Download Results] Page 1 of 3 < Previous Next > [+]

Sponsored Links  
Nova Machine Products

**Filters**  
! Obsolescence

Search Type...  
Quantity...  
Quality...  
Part Number...  
Manufacturer...  
Part Name...

☒ - All - 200  
☐ Meter 32  
☐ Board 25  
☐ Card 21  
☐ Indicator 15  
☐ Repair 13  
☐ Connector 7  
☐ Module 7  
☐ Circuit 6  
☐ Thermometer 6  
☐ Monitor 5

Part #/Name  
AN2559-S-P  
Analogic  
AN2553LP013B  
Analogic  
AN2570  
Analogic  
AN2559-S-P  
Analogic  
10-08720-002  
Analogic  
AC1330-S  
Analogic  
DC6700  
Analogic  
AN451  
Analogic  
AN25M05EP1XX3X  
Analogic Corp  
AC1330-S  
Analogic

**Vendor Catalog**

Part #: 10-08720-002 Part Name: CARD  
Manufacturer: **ANALOGIC** Quality: NON-SAFETY  
Stock #: 0015A5335  
Description: CARD, INPUT, RTD, (10 OHM) MODEL AC4610

In Stock: 1 Minimum: Maximum:  
Price: Upon Unit: Lead Time:  
Request

Utility stock: 1008720002  
Utility stock: 11106596

Rapid #: 621656 Last Upd: 6/24/2010 Last Ver: 2/15/2011

Contact: Albert Radford Part21: N  
ATC Nuclear Inter: N  
Woodridge, IL Facility Utility:  
Bus. Rules: N/A

Work: 201.964.4130 Fax: 201.507.1045  
24hr: 708.359.5368 Pager: 201.545.0293  
E-mail: aradford@argoturbo.com

Alt Contact: RICH CRAWFORD Alt Phone: 865.335.7896..  
E-mail:

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# OIRD – Obsolete Items Replacement Database

- Included with your RAPID membership
- Search of “LCT-14” found seven records with solutions
- Selecting the record from Palo Verde . . .

The screenshot shows the RAPID database interface. The search bar at the top contains 'LCT-14'. The results are displayed in a table with the following columns: Part Number, Description, Owner, Priority, and Offer Solution. The table shows seven records, with the record for 'LCT-14' from 'Palo Verde Ngs' highlighted. The 'Solutions' button next to this record is also highlighted.

Part Number	Description	Owner	Priority	Offer Solution
LCT-13 Lonergan Valve	VALVE, PRESSURE RELIEF	Energy Northwest Columbia Generating Station	N/A	Solutions
LCT-11 Lonergan Valve	VALVE, PRESSURE RELIEF	Energy Northwest Columbia Generating Station	N/A	Solutions
LCT-14 Lonergan Valve	VALVE, SAFETY RELIEF, 1", 150# RF INLET, 1", 150# RF OUTLET, 200 PSIG SET PRESSURE, 15.9 GPM SA351 GR CF8M BODY, 316 SS TRIM,...	Arizona Public Service Palo Verde Ngs	N/A	Solutions
LCT-40 Lonergan Valve	VALVE, PRESSURE RELIEF	Energy Northwest Columbia Generating Station	N/A	Solutions
LCT-14 Lonergan Valve	VALVE, PRESSURE RELIEF	Energy Northwest Columbia Generating Station	N/A	Solutions
LCT-14 Lonergan Valve	VALVE, PRESSURE RELIEF	Energy Northwest Columbia Generating Station	N/A	Solutions
LCT-30 Lonergan Valve	VALVE, PRESSURE RELIEF	Energy Northwest Columbia Generating Station	N/A	Solutions

## OIRD – Links obsolete *parts* with *solutions*

- **Details available to all RAPID members willing to Share Solutions**

http://www.rapidpartsmart.com/Uploads/oird/CSM/PLVDE\_04097.pdf - Windows Internet Explorer provided by S...

http://www.rapidpartsmart.com/Uploads/oird/CSM/PLVDE\_04097.pdf

File Edit Go To Favorites Help

http://www.rapidpartsmart.com/Uploads/...

1 / 39 46.3% Find

Please fill out the following form. You cannot save data typed into this form. Please print your completed form if you would like a copy for your records. Highlight Fields

Dr. Cheryl L. (2005)

TOTAL # OF PAGES - 39 PAGE 1

DOCUMENT NUMBER MEE- 04097

g QAG X NGR

**PALO VERDE** DOCUMENT TITLE SHEET  
NUCLEAR GENERATING STATION

Title / Description: THIS MEE EVALUATES AND APPROVES THE EQUIVALENT SUBSTITUTION OF  
1 X 1 PRESSURE RELIEF VALVE CROSBY MODEL 9511121A  
TO REPLACE LONERGAN MODEL LCT-14

△																		
△																		
△																		
△																		
△	Issued for use:	Herrmann, Manager 2 (20050505)	Seewick, Kenneth C (20050505)	N/A	N/A	N/A	N/A	N/A	N/A	Marion, David J (20050505)	Tessman, Bruce IV (20050505)							
△	Document Electronically Available																	
△	X /Yes/ No																	
REV. NO.	REVISION DESCRIPTION	Prep Date	1st Date	Second Party Verification Date	Mech Date	Civil Date	Elec Date	I & C Date	Independent Verification Date	PS SUPV. Other (Specify Org.) Date								

CROSS DISCIPLINE REVIEW

PLVDE076 Rev. B 8/10/2007

Unknown Zone

# OIRD – *Automate your obsolescence activities*

---

Find Solutions to obsolete parts quickly –

decreases time spent searching for replacement parts

**Watch List** – You may ‘flag’ obsolete parts of interest

**EMAIL Alert** – Newly-identified obsolete parts

**EMAIL Alert** – New solutions

So far, **OIRD** has identified:

**>161,311 Obsolete parts, and**

**>69,032 “Solutions” to obsolete parts**

# RAPID – Increase your Investment Recovery sales

- Your “For Sale” parts are shown to searchers first
- Use *Data Mining* to find qualified buyers for your inventory

The screenshot displays the RAPID Parts website interface. At the top, a navigation bar includes 'Parts | Obsolescence' and a search bar. A user is logged in as 'Bob Gibson'. The main content area shows a 'For Sale' part listing with columns for 'Emergency', 'Routine', 'For Sale', 'RFQ', 'Add New For Sale Request', 'Model #', 'Manufacturer', 'Part Name', and 'Quantity'. A specific part is highlighted: S/N 0663-151, IMPELLER, Quantity 2, manufactured by INGERSOLL RAND. A 'Forsale - Part Request Details' pop-up window is open, displaying the following information:

**Request Id:** 179999  
**Request Expires:** 7/30/2010  
**Last Updated:** 7/16/2010  
**Manufacturer:** INGERSOLL RAND  
**Part Number:** S/N 0663-151  
**Quantity:** 2  
**Part Name:** IMPELLER  
**Description:** FOR #3 AIR PREHEATER COIL PUMP, BRONZE W/ RINGS FOR INGERSOLL-RAND PUMP TYPE 3AFL, SERIAL #0663-151, 500 GPM, 100' HEAD, 3500 RPM (BRONZE ONLY)  
**Attachments:** 1.) KCPLCO\_589571.bmp

**Contact Information**

**Name:** Christie Crounse  
**Company:** Kansas City Power & Light  
**Job:** STORES FOREMAN  
**Plant:** Montrose Station  
**Title:**  
**Email:** christie.crounse@kcpl.com  
**Phone #:** 660.885.2284  
[View Additional Contact Information](#)

Buttons: Send Reply, Edit, Close

The background of the website shows a sidebar with 'Recent Searches' and a list of terms, and a main content area with 'Upcoming Events' and a list of events.

# ***RAPID* – Investment Recovery RESULTS**

“We had \$1,360,000 in surplus sales in the first five years. Our return on investment was 140% before we factored in the tax savings associated with inventory reduction.

**”To date, we have sold over \$5 million of our surplus inventory.”**



*Arizona Public Service*

# RAPID – Seer Operating Experience

- Seer is an add on to RAPID that allows procurement to see other members utility and material matches within your ERP system
  - 2013 - Exelon transferred \$3M of inventory items that have non-shared catalog ID's between its sites.
  - 2014 - Exelon transferred \$4.6M of inventory
  - 2015 - Exelon transferred \$3.7M of inventory
  - 2016 - Exelon transferred \$2.4M already for this year
- Exelon directly attributes this \$13.7M decrease in inventory due to the increased visibility of non-shared common parts provided by Seer

# **RAPID – Contingent Parts Manager**

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- Contingent Parts Manager – an add on to RAPID that allows you to reserve an item in another members inventory without purchasing it
  - CPM provides a cost effective solution to contingent parts without adding them to your inventory

# **RAPID – Industry Experience**

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- Curtiss-Wright can provide additional services beyond a standard RAPID membership
  - Curtiss-Wright has the knowledge and experience to provide expert analysis of inventory
  - Primary point of contact for sale transactions to reduce burden on plant staff

# **RAPID – Behind the scenes**

---

- **24 / 7 availability of RAPID**
  - **>6,700 Active Users**
  - **Logins past 12 months: >60,000**
  - **Approximately 200 – 400+ Part Searches daily**

# **RAPID – Member Support**

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- **Customer-focused training options:**
  - Database training webinars
  - Topic-specific training
  - Online tutorials / FAQs
- **Benchmarking Surveys and Reports**
- **Weekly Informer (Newsletter)**

# ***RAPID*** – Benefits Summary

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## **Production**

- Reduce Outage and de-rates
- Avoid work delays

## **Inventory Control**

- Reduce / optimize inventory
- Integrate fleet inventories
- Backup corporate inventory

## **Procurement**

- More sourcing options
- Locate parts faster/closer
- Solutions for obsolete items

## **Investment Recovery**

- Earmark your surplus
- More sales 'visibility'
- 'Data Mine' to find active buyers for your surplus.

**[www.rapidpartsmart.com](http://www.rapidpartsmart.com)**

# Questions?

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WRIGHT***

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**[www.rapidpartsmart.com](http://www.rapidpartsmart.com)**