



IHS & CAPS™ Combine to Address Supply Chain Risk

World's Leading Source of Electronic
Component Intelligence

*April 24, 2012
IHS Design & Supply Chain*

IHS Has Acquired CAPS™ Solutions Business from PartMiner Worldwide



IHS Completes Three Strategic Acquisitions

Transactions enhance IHS capabilities in technology, media and telecommunications; electronic components and energy

Monday, March 5, 2012 7:03 am EST

ENGLEWOOD, Colo.--(BUSINESS WIRE)--IHS Inc. (NYSE: IHS), the leading global source of information and analytics, announced today that it has closed three strategic acquisitions: Displaybank, a global authority in market research and consulting for the display industry; the Computer Assisted Product Selection (CAPS™) electronic components database and tools business, including CAPS Expert, from PartMiner Worldwide, and the digital oil and gas pipeline and infrastructure information business from Hild Technology Services. The combined purchase price of the acquisitions is approximately \$45 million. Due to the timing of these transactions, there is no impact to the company's first quarter 2012 financial results. IHS plans to update its full year 2012 financial guidance for the impact of these acquisitions on its previously announced earnings conference call being held on March 22, 2012.

You may find the full text of the news release at <http://press.ihs.com>



has
acquired

CAPS™

"The acquisition of the CAPS family of products will significantly enhance our existing electronic parts information business to provide greater breadth and depth of content to our global customers."

IHS did not acquire PartMiner nor its parts sourcing and distribution business.



Important Note to CAPS™ Clients

- IHS successfully transitioned global CAPS personnel from PartMiner to IHS.
 - Delhi, India; Centennial, Colorado; personnel working remotely.
- IHS secured ownership of CAPS databases, tools and systems that support these products and services. We ensured critical product development and support resources were included throughout the process
- IHS made improvements that stabilize and improve the reliability of hardware and systems including increased server capacity and processes to prevent down time.
- IHS completed initial improvement to data and data production processes for critical information delivered to CAPS solutions, including updates to data elements, commodities, and part statuses within the CAPS database.



- Founded in 1959: To provide product catalogs for aerospace engineers
- Today: Leading global source of critical information and insight dedicated to providing the most complete and trusted information and expertise
- Employs 5,400 people in 30 countries
- 55,000+ customer organizations in 180+ countries
- ~70% of US Fortune1000; 80% of Global Fortune 500

Strong, Growing Products and Financials:

- Public, NYSE IHS (2005)
- Revenue: \$1.3B (2011)

Areas of Expertise, Capabilities and Content

Energy & Power



Design & Supply Chain



Defense, Risk & Security



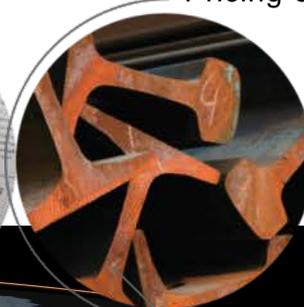
EHS & Sustainability



Country & Industry Forecasts



Commodities, Pricing & Cost



Supply chains operate in the dynamic context of external forces

Visibility into supply chain dynamics is extremely valuable





Part Search & Research
BOM Analysis

- Lifecycle
- Availability
- Compliance
- Counterfeits
- Alternate Parts

Reference Parts Catalog, BOM Management and XML Web Services

EOL / PCN Alerting and Management



PCNAlert

Counterfeit Part Risk Management
Supplier Risk Management



ERA Counterfeits

Compliance and Lifecycle tracking for parts outside reference databases



Content Services

Product Regulation Tracking



Regulation Tracking

Electronics Supply Chain Analysis

- Teardown
- Component Price Tracker



Teardown, Price Tracker

** With the acquisition of CAPS, you'll see a merged set of capabilities and offerings*

CAPS Acquisition:

Provide Industry's Largest and Highest Quality Solution Suite



Today, CAPS™ and 4DOnline products and services are not interrupted...

CAPS™ Expert

CAPS™ Expert BOM Manager

CAPS™ Connect

CAPS™ ES (Enterprise Solution)

CAPS™ XML Library



4DOnline Parts Universe

4DOnline Comet

4DOnline BOM Manager

4DOnline Enterprise Database

4DOnline XML Library

...and tomorrow, we will put customers first as we create a combined suite that delivers the utmost value.



IHS Acquired Exceptional CAPS™ Electronics Data, Tools, and Personnel / CAPS™ Tools Are Highly Complementary to IHS Component Management Tools

CAPS™ –a leading suite of data management tools that help design, engineering, sourcing, and procurement professionals simplify the selection, evaluation, and purchase of electronic components.



- **CAPS™ Expert**
- **CAPS™ Expert BOM Manager**



- **CAPS™ Connect**

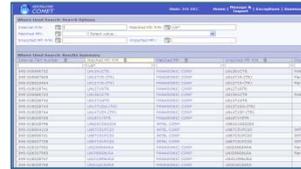


- **CAPS™ ES (Enterprise Solution)**
- **CAPS™ XML Library**

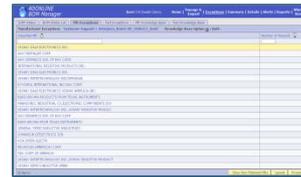
IHS is a leading provider of component and supplier databases with current, accurate information from detailed technical attributes, price, and availability data to datasheets and compliance documentation.



- **4DOnline Parts Universe**



- **4DOnline Comet**



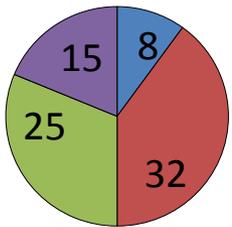
- **4DOnline BOM Manager**

- **4DOnline Enterprise Database**

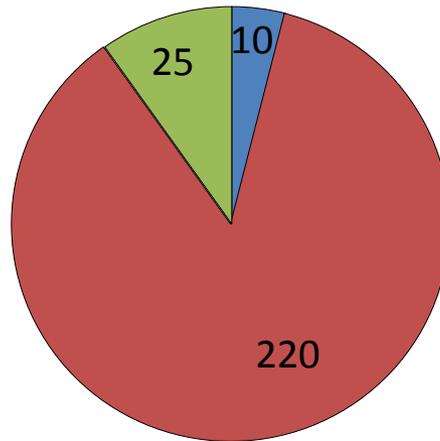
- **4DOnline XML Library**

4DOnline Content + CAPS Content; high-level part breakout

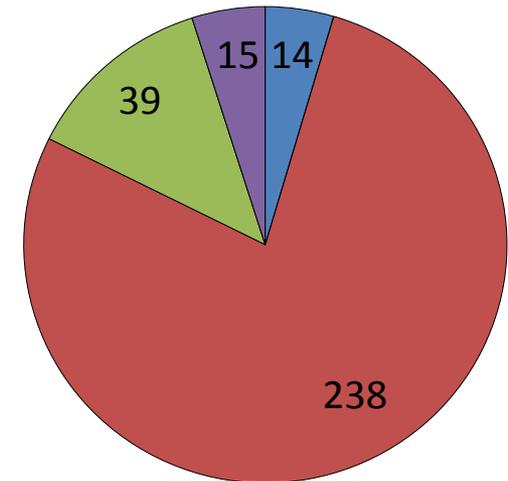
4DOnline
(millions of parts)



CAPS
(millions of parts)



Combined IHS Content
(millions of parts)



80 million parts

255 million parts

306 million parts

Fasteners

Semiconductors

Electro- Mechanical

Passives

IHS Unified Content

4DOnline Content + CAPS Content; high-level part breakout



	IHS Benefits Today	CAPS™ Benefits Today	Unified Future Benefits
Parts	80,000,000 +	255,000,000 +	306,000,000 +
Commodities	<ul style="list-style-type: none"> Connectors Crystals / Oscillators Cylindricals Electro-Mechanical Components Fasteners & Hardware Fiber Optic Connectors ** Fiber Optic Devices ** Fuses & Circuit Protection Sensors ** Passive Devices Power Supplies Relays RF Microwave Devices ** Semiconductors Transformers <p>** Unique coverage</p>	<ul style="list-style-type: none"> Batteries ** Connectors Crystals / Oscillators Cylindricals Electro-Mechanical Components Fans & Blowers ** Fasteners & Hardware Fuses & Circuit Protection Heat Sinks ** Passive Devices Power Supplies Relays Semiconductors Transformers <p>** Unique coverage</p>	<ul style="list-style-type: none"> Batteries Connectors Crystals / Oscillators Cylindricals Electro-Mechanical Components Fans & Blowers Fasteners & Hardware Fiber Optic Connectors Fiber Optic Devices Fuses & Circuit Protection Heat Sinks Sensors Passive Devices Power Supplies Relays RF Microwave Devices Semiconductors Transformers
Additional Strengths	<ul style="list-style-type: none"> Strong RoHS and REACH Additional Environmental / Product Chemical Compliance Data + Docs Export Controls Strong Fasteners + Hardware 	<ul style="list-style-type: none"> Strong RoHS and REACH Exceptional Passive Coverage 3,000+ Historical Manufacturers Pin-Out Information 	



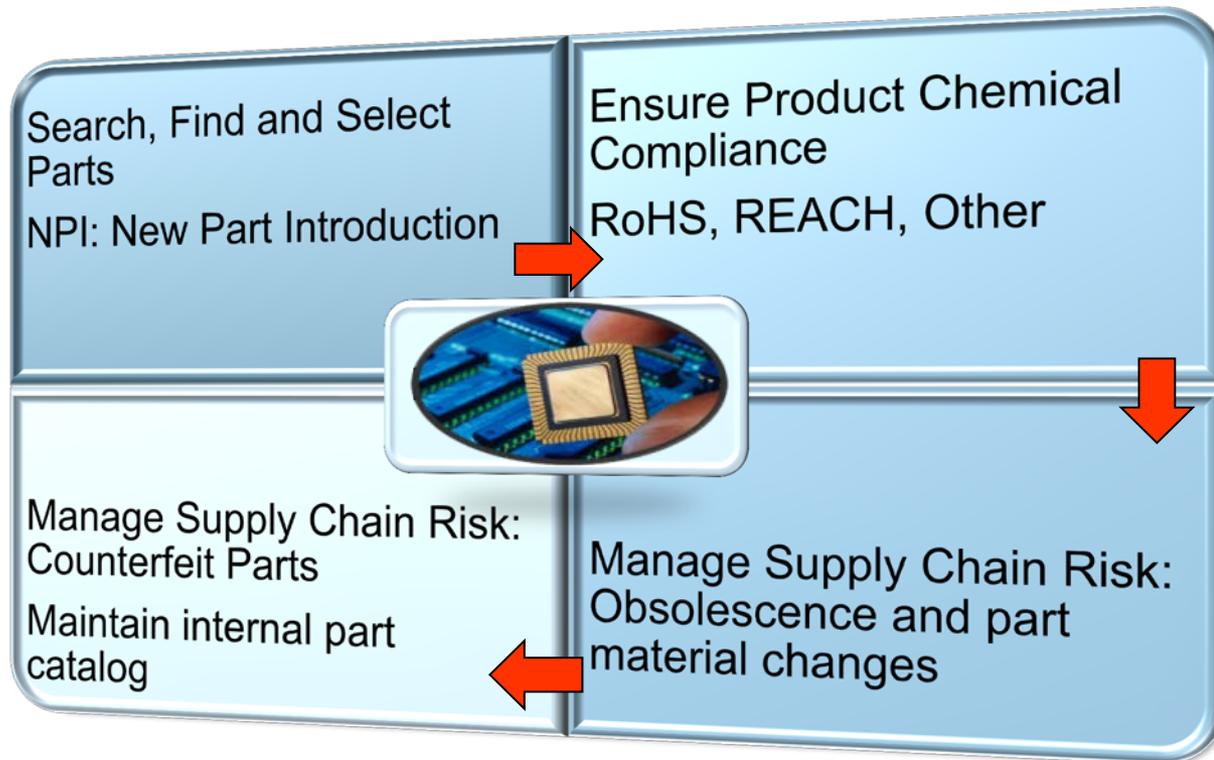
Unified Content

Most Comprehensive Capabilities for Part & Supplier Management

- Manufacturing & Global Sources of Supply
- Part and Supplier Counterfeit Screening
- Predictive Obsolescence Technologies
- Component Search & Selection Tools
- Datasheets & Technical Documents
- Alternates & Substitute Components
- Sourcing & Lifecycle Information
- Pricing & Availability Information
- Historic Component Coverage
- Physical Part Information
- Pin-Out Information
- Technical Characteristics
- Export Control Information
- PCN, EOL, and Counterfeit Alerts
- Product Chemical & Material Compliance
- Sustainability / Conflict Minerals Position Declarations



Part Catalog Use Models (advanced component search)



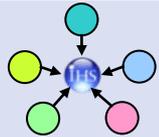
- IHS is creating a new part research tool that combines data and key features from CAPS Expert and Parts Universe.
- First release scheduled for June/July 2012.
- 4DOnline clients should register (if not already) on the IHS Engineering Resource Center (ERC) website to stay informed about future announcements and plans regarding the CAPS acquisition and product roadmaps.

Unified Content and Taxonomy

Powering content user models



Use Model Value and IHS 4C's



Gather

- Collect Parts from hundreds of manufacturers of electronics parts, connectors, fasteners

- Search in one place
- Save time searching
- IHS C: Complete



Organize

- Group similar parts together and structure in a hierarchy

- Find all parts of interest quicker
- IHS C: Complete, Consistent



Describe

- Describe similar parts in a standard way using parametric information

- Compare parts side-by-side
- IHS C: Consistent, Correct, Complete, Current



Provide Valuable associated information

- Datasheets, environmental declarations, PCN/EOLs, Counterfeit risk, Distributor pricing

- Research to enable informed decisions
- IHS C: Complete, Correct



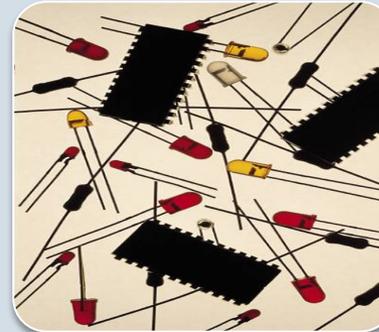
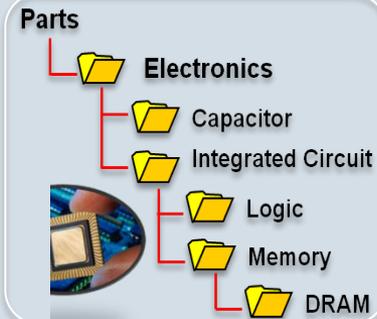
Maintain, Monitor, and Alert

- Track and maintain content in 4DOnline Electronics Database

- Make decisions using current info; alert to changes
- IHS C: Current, Correct

Unified Offerings

CAPS Content & Capabilities + 4DOnline Content & Capabilities



Advanced Component Search

Part Search, Research, and Selection

Rich Content

Variety of search strategies

Compare and Export features

New Part Introduction

BOM Mgmt & Analysis

BOM Analysis, Monitoring and Alerting

Lifecycle

RoHS, REACH compliance

Counterfeit Risk

PCNs

Part Maintenance

XML Web Services

Unified XML library

Provides integration framework for powering and maintain client internal systems

Access to rich content

Access to datasheets, PCNs, Certificates of Compliance

BTFW and Private

Behind the Fire Wall and Private Services

Support and enhancement for CAPS Connect, CAPS Connect ES and JDA (i2, Aspect) SRM environments

Access to rich content

Access to datasheets...

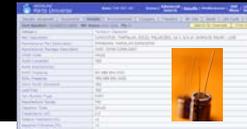
Unified Offerings

CAPS Content & Capabilities + 4DOnline Content & Capabilities



	PartMiner CAPS Solutions	IHS 4DOnline Solutions	IHS Unified Product
Online database of electronic parts information	<ul style="list-style-type: none"> 255M parts covering electronic and electro-mechanical content 	<ul style="list-style-type: none"> 80M parts covering electronic, electro-mechanical and fasteners content 	<ul style="list-style-type: none"> 306M (est.) parts covering electronic, electro-mechanical and fasteners content
Online Database manufacturers and suppliers	<ul style="list-style-type: none"> 3,000 global manufacturers and suppliers of electronics 	<ul style="list-style-type: none"> 1,000 global manufacturers of electronics 	<ul style="list-style-type: none"> 3,500+ (est.) Global manufacturers and suppliers of electronics
Application capabilities and portfolio	<ul style="list-style-type: none"> CAPS hosted product solutions CAPS BTFW product solutions Integration framework to 3rd party solutions 	<ul style="list-style-type: none"> 4DOnline hosted product solutions Enterprise content integration to JDA solution (SRM) 	<ul style="list-style-type: none"> Combined hosted solution portfolio Expanded solution portfolio with extensions for BTFW configurations Expanded integration platform
Update frequency of component information	<ul style="list-style-type: none"> Weekly update of part status information and alerts Bi-weekly and monthly update of technical content 	<ul style="list-style-type: none"> Daily update of part status information, alerts, predictive content Weekly update of technical content 	<ul style="list-style-type: none"> Daily update of part status information, alerts, predictive content Weekly update of technical content

Unified XML Web Services: Content Management, Maintain OEM System; Link to Parts Catalog



Technical Characteristics

Chemical Compliance



Export Control



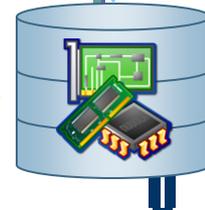
EOL /
PCN



Counterfeit
Parts

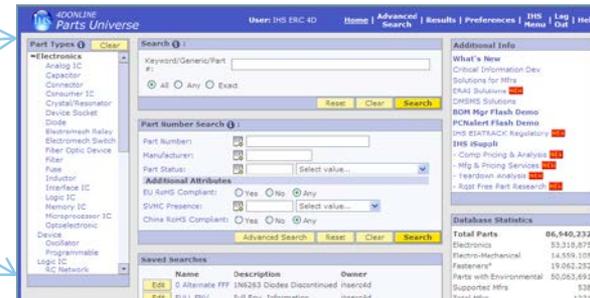
Dynamic Access to part content
AVL monitoring for part updates

XML Web
Services



Electronics
Database

Link to part details in
Unified Parts Catalog



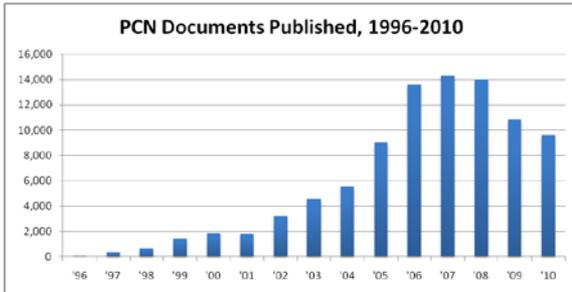
Unified Parts Catalog



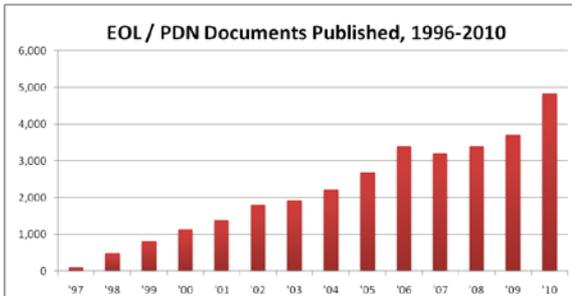
Electronics Database
Sourcing & Processing

A Quick Look at Supply Chain Risk Today

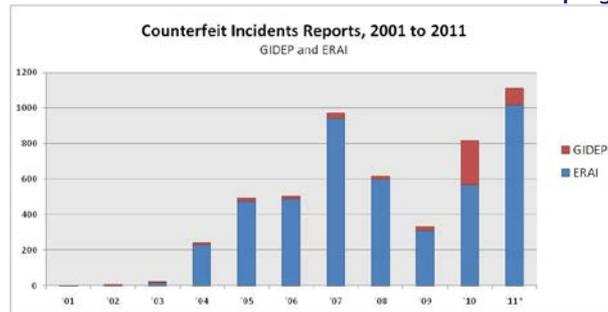
PCN increase of 40% CAGR



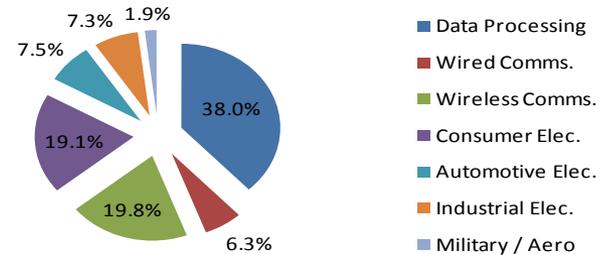
EOL increase of 40% CAGR



Counterfeits increase Steeply



Military / Aero < 2% of Market



Shortage and Allocation Issues

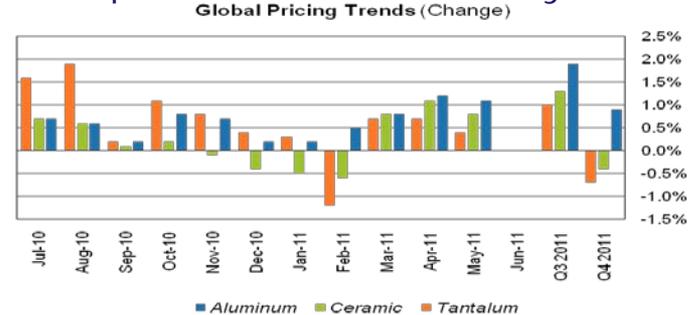
Capacitors

Flexibility

- Abundant Supply - Most Suppliers Are Able to Accept Significant Upsides; No Current Supply Issues
- Supply / Demand Equilibrium - Adequate Supply Exists; Significant Upsides in Demand Could Extend Lead Times
- Demand Exceeds Supply - Extending Lead Times; Potential for Shortages
- Allocation Market - Suppliers Are Unable to Respond to Unforecasted Demands; Shortage

Forecast	Aluminum			Ceramic			Tantalum		
	Flexibility	Lead Time (Weeks)	Global Pricing Trend	Flexibility	Lead Time (Weeks)	Global Pricing Trend	Flexibility	Lead Time (Weeks)	Global Pricing Trend
Q4 2011	18	18	0.3%	14	14	-0.4%	20	20	-0.7%
Q3 2011	18	18	1.3%	14	14	1.3%	20	20	1.0%
Jun-11	18	18	1.1%	14	14	0.8%	20	20	0.4%
May-11	18	18	1.1%	14	14	1.1%	20	20	0.7%
Apr-11	18	18	1.2%	14	14	1.1%	20	20	0.7%

Component Price Volatility



REQUIREMENTS

RISK DRIVERS

Electronic Counterfeit Part Trends



Increasingly common, dangerous, and expensive to fix—after the fact



Ice-detection module on P-8A (2009)



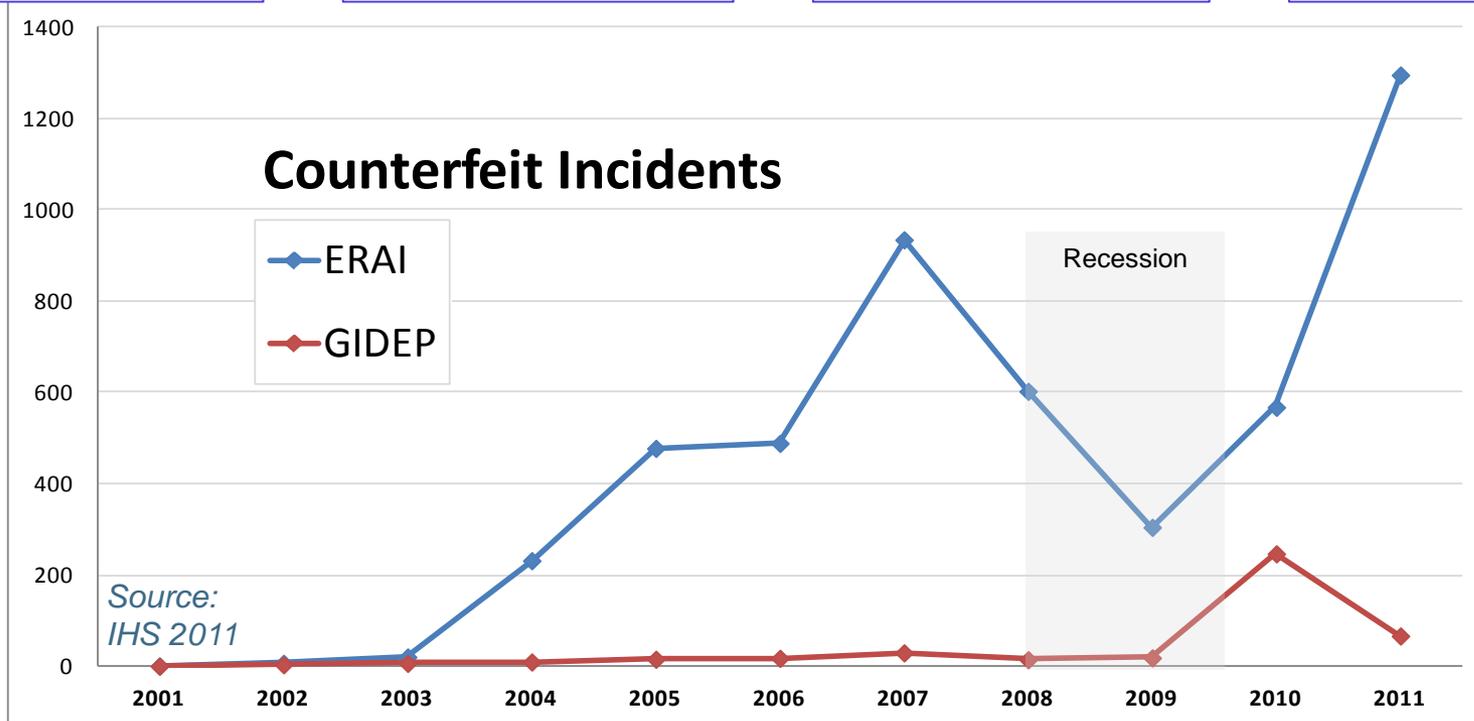
Display Units on C-27J (2010)



FLIR on SH-60B (reported 2011)



THAAD Computers Fix: \$2.7m (2010)



BOM Benchmark:

Typical AVL typically has ½ - 5% match to ERAI reported incidents



	A	B	C	D	E	F	G	H	I	J	
1	Report Type:	User Initiated Scrub Report									
2	Company Name:	OEM									
3	Date Processed	4/15/2011									
4	Please Note: TYPE (Column D) HR - High Risk Parts (Parts that have been reported to ERAI as being faulty, substandard or nonconforming to the original manufacturer's specifications.); SC - Suspect Counterfeit Parts.										
5	Your Internal PN#	Your Manufacturer PN#	Manufacturer PN# Risk Parts	Type	% Match	Your Mfg	Mfg Risk Part	D/C Risk Part	Lot # Risk Part	Description of Non-Conformance	
6	Console_Assembly.xls										
7	7548984	DAC1231LCJ	DAC1231LCJ	SC	100%	National	NATIONAL SEMI	8632	B8632	Parts have been remarked. Marking permanency revealed a topical covering which was removable. When this substance was removed a different part number was revealed.	
8	7548984	DAC1231LCJ	DAC1231LCJ	SC	100%	National	NATIONAL SEMI	9048	B9048A	Parts have been resurfaced. The top and bottom of the parts have a different texture.	
9	7548984	DAC1231LCJ	DAC1231LCJ	SC	100%	National	NATIONAL SEMI	8620	B8620	Parts failed marking permanency testing. Part markings are easily removed. These parts have been resurfaced and remarked.	
10	536235	ADS7832BN	ADS7832BN	SC	100%	Burr Brown	BURR BROWN/TI	--	21Z35XW	Evidence of sanding, scratching, and blacktopping.	
11	536235	ADS7832BN	ADS7832BN	HR	100%	Burr Brown	BURR BROWN/TI	239	--	Parts rejected visually because they found different date codes, different countries of origin and soldered leads.	
12	536235	ADS7832BN	ADS7832BN	HR	100%	Burr Brown	BURR BROWN/TI	--	--	Parts failed electrically.	
13	526894	BUV48C	BUV48C	SC	100%	ST Micro	ST MICROELECTRONICS	--	W321	Parts have been resurfaced.	
14	5554124	HM628128LP-10	HM628128LP-10	SC	100%	Hitachi	Hitachi Semiconductor, Inc.	438	1002330	Parts failed marking permanency and leads are clearly refurbished. See photos.	
15	236548	HM628512ALFP-8	HM628512ALFP-7	SC	92%	Hitachi	Hitachi Semiconductor, Inc.	203	01002MMD SL	Product shows evidence of over coating and some external damage so product is deemed not in new and unused condition. Product has poor electrical yield when testing and shows evidence of remarking. Product rejected at anomaly analysis.	
16	5554124	HM628128LP-10	HM628128LP-8	SC	91%	Hitachi	Hitachi Semiconductor, Inc.	539	ZZZZ	These parts became obsolete in 2001; the suspect devices are marked with a 0539 date code. Furthermore, die analysis revealed the parts had a Sony die from 1992.	
										The manufacture label has both ST Microelectronics and SGS Thompson. There are various misspellings on the label. Also the label states that the parts were made in Malta, but the	

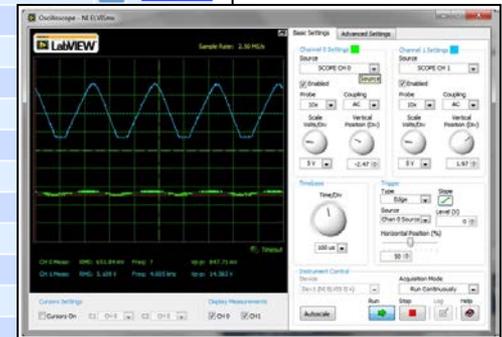
Counterfeits—a Daily Concern

Counterfeits and Substandard Parts Reported by ERAI in the Last 14 Days

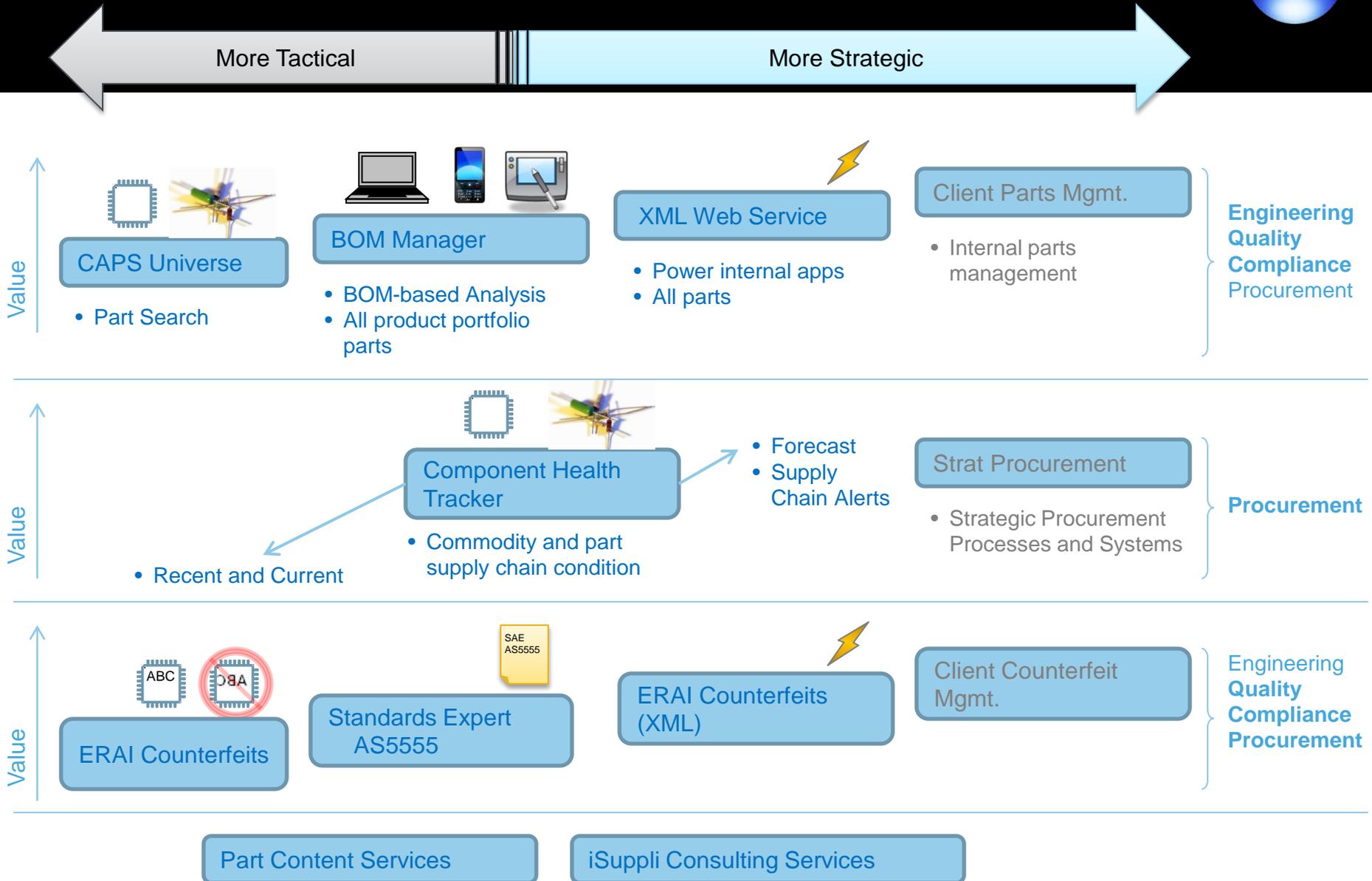


Recently Reported Alerts (last 14 days)

Part Number	Manufacturer	Date Code	Lot Code		
XC3020A-7PQ100C	XILINX	SC 0228 and 0518	D2073418A and D2109682A		Details
XC3020A-7PQ100C	XILINX	SC 0532	A1154087A		Details
RC4200AN	RAYTHEON	SC 0211 / 0242			
EN80C186EB20	INTEL CORPORATION	SC 9628	L628VA06E		Details
MCF5282CVF66	FREESCALE	SC 0838	FIQAL0838D		
D5C060-45	INTEL CORPORATION	HR L4152546, L4273151, L4341883, L8100499			
D469ADJ	SILICONIX	SC 0237			
X24645S8IG-2.7	XICOR	SC 0603			
OP482FY	ANALOG DEVICES	HR 0523	N76212		
OP470FY	ANALOG DEVICES	HR 0512	N76316		
MB504L	FUJITSU MICROELECTRONICS	SC 0720			
X2212P/5	XICOR	SC 9622	23801E		
FSD200BM	FAIRCHILD SEMICONDUCTOR	HR DVK49	DVK49		
EPC16UI88	ALTERA CORPORATION	SC 0543	VAC8030411		Details
TE28F800B5T90	INTEL CORPORATION	SC 0512	U5120257Y		Details
XC5210-6PQ240I	XILINX	SC 1025 and 1009			Details
B82450A2364A000	EPCOS	SC 1112 and 1049			Details
PKD01FP	ANALOG DEVICES	SC 0833	D19751		Details
CS5102A-BL	CRYSTAL SEMICONDUCTOR CORP	SC 0333	GFBAEXIU		
MTP2955	MOTOROLA	HR 9317			
S5935QF	AMCC / APPLIED MICRO CIRCUITS CORP	SC 0742 and 0937	NA		
DAC08HP	ANALOG DEVICES	SC 0025			
XC4005E-4PC84C	XILINX	SC 0521	A2035607A		
MC68B09P	MOTOROLA/ ON SEMI	SC 12			
N28F001BX-B150	INTEL CORPORATION	SC 0136			
SL6140NAMP	GEC PLESSY	SC 9135A	6140		
TC551001CP-70L	TOSHIBA	SC 0548			
AN2131QC	CYPRESS SEMICONDUCTOR	SC 0810 and 0920			
TE28F800B5T-70	INTEL CORPORATION	SC 0629	A6291038Y		
AT29C010A-70JU	ATMEL	SC 1039,1042,1047	911982		Details



IHS Product and Value Growth Maps





IHS & CAPS™ Combine to Address Supply Chain Risk

World's Leading Source of Electronic
Component Intelligence

*April 24, 2012
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