



Enterprise Cataloging Software Designed for Test Equipment

Presented by

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Enterprise Cataloging System an AssetSmart Innovation

Definition



SMART|ENCATS™ is an enterprise catalog system allowing your test and equipment specialists complete equipment data including performance specifications at their fingertips.

With performance specifications, you can search for the best fit for new projects using existing available resources.

SMART|ENCATS™ helps you get the right equipment to the right place at the right time – at the lowest cost.

What is Structured Cataloging?



- Structured cataloging turns unstructured or free-line text data into information building blocks
- Structured cataloging assembles these building blocks into a user interface
- Identifies like kinds for ease of search and substitutability
 - Manufacturer
 - Model
 - Standard Noun Description
 - Performance Specifications

What's the Problem!



- GIGO lives! (garbage in – garbage out)
- Manufacturers/Vendors change names
- Model numbers typically entered inconsistently or incompletely
- Text descriptions vary widely
- Computer searches slow and unreliable

Result:

- 20% of inventory “hidden” in equipment records

Typical Manufacturer Problems



Garbage-In, Garbage-Out (Case Study)

- 1) HP
- 2) H P
- 3) H.P
- 4) H.P.
- 5) H-P
- 6) H/P
- 7) HEW
- 8) HWP
- 9) HEW PACK
- 10) HEWLETT-PACKARD
- 11) H. PACKERS
- 12) HEW-PACK.....

Manufacturer Data Solution



Manufacturer Index

- Manufacturer Index
- Name Change Cross References
- Cage Code Cross Reference

Noun Problems



- “Plotter Graphics”
- “Plotter HP”
- “HP Colorpro Plotter”
- “Plotter Pen”
- “Plotter 6-Pin”

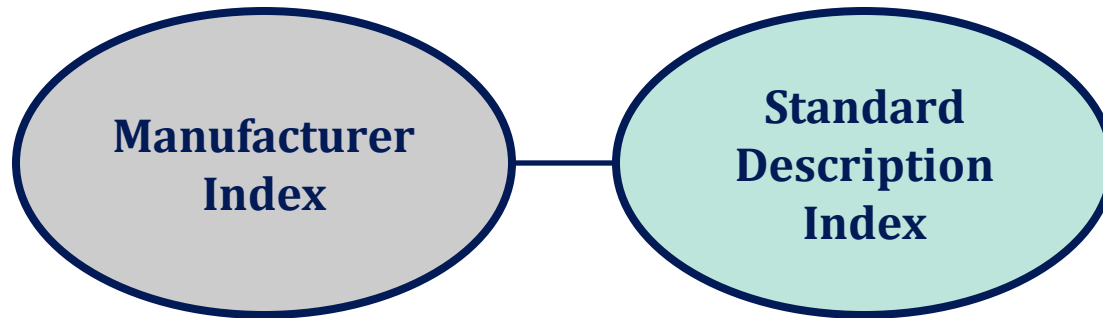
Additional Noun Problems



Manufacturer's Descriptions are Not Consistent

- “MAGIC TEE”
- “SIGNATURE ANALYZER”
- “PERSONALITY MODULE”
- “BUG HOUND FAULT TRACER”

Noun Solution



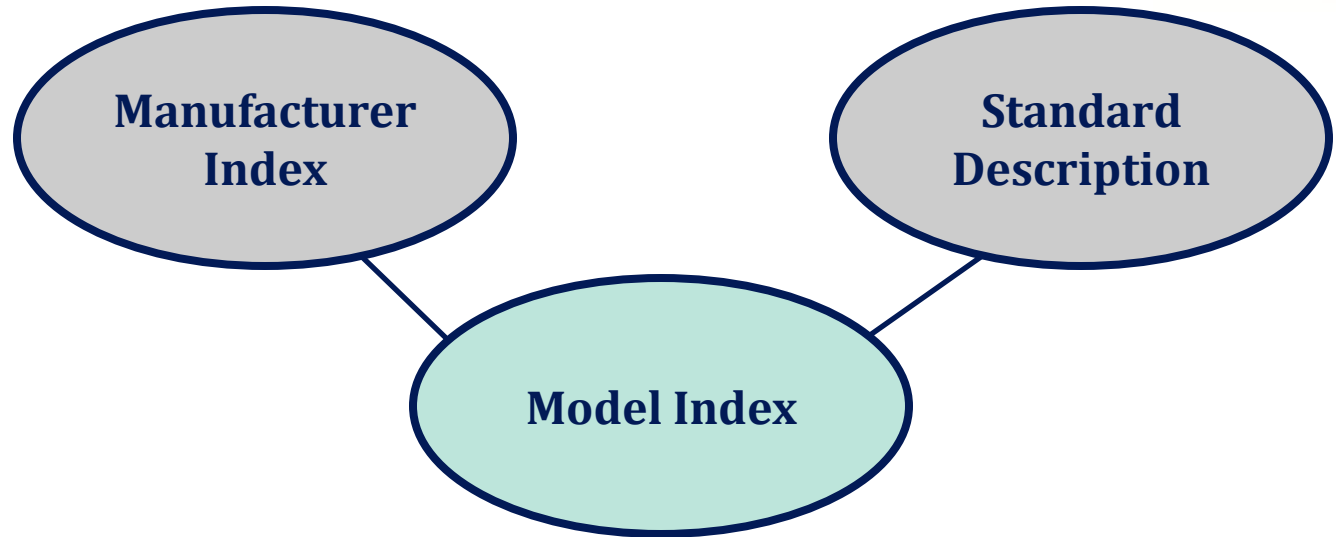
- Use Generic Standard Description Index
 - Major noun – minor (two level)
 - Generator.....Function
 - Generator.....Noise
 - Generator.....Pattern
 - Generator.....Pulse
 - Generator.....Signal

Model Number (Case Study)



1. HP 7475A
2. H-P 7475
3. Graphics Plotter
4. HP-7475A
5. HP-7475
6. HP7475A
7. HP7475A1
8. HP Plotter
9. HP 7475 6 Pen
10. Mod. 7475A
11. 7475A HP
12. 7475A RS233C
13. 7475A RSL32Interface
14. 7475A-001

Model Number Solution



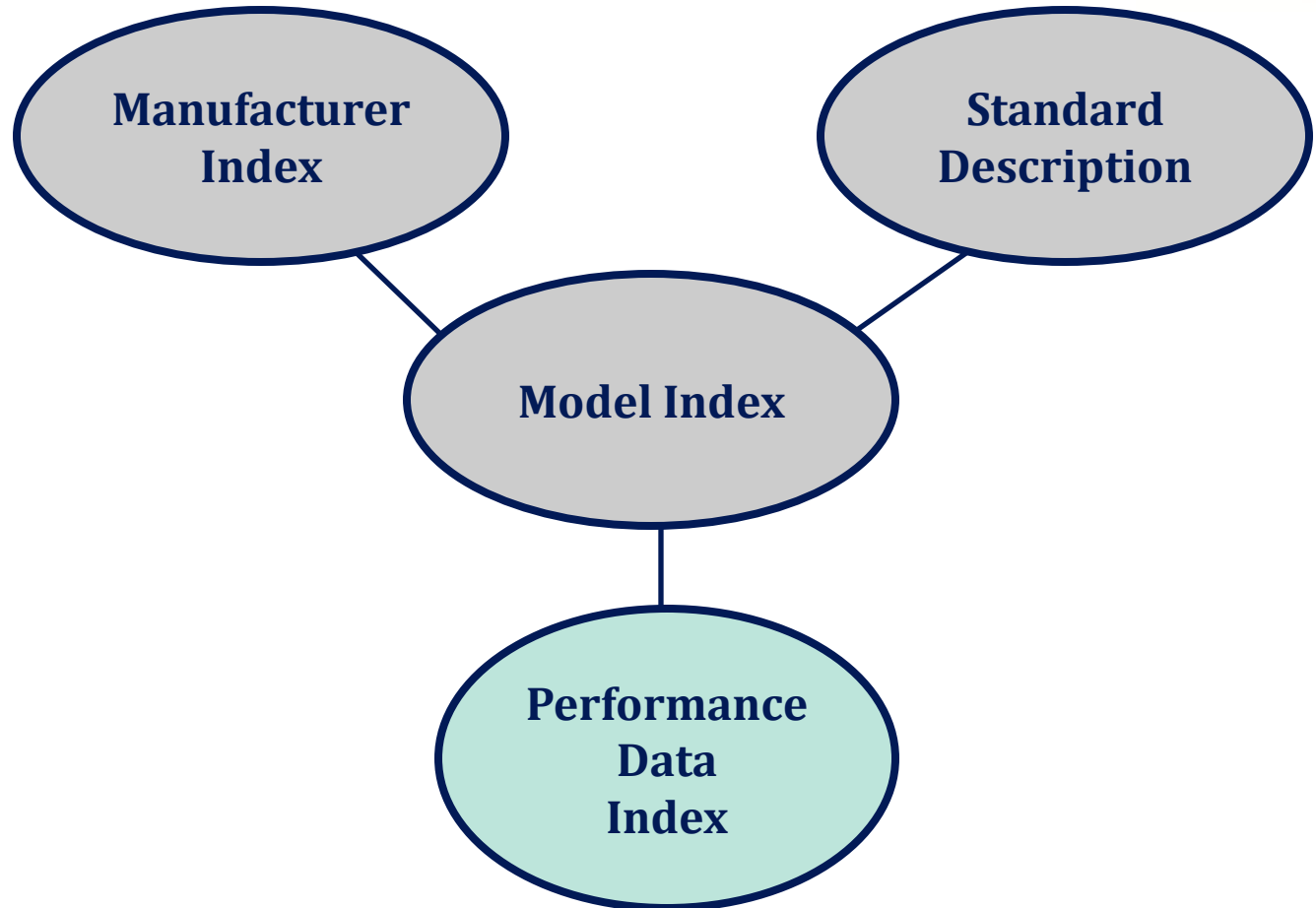
- Model Number Index
 - Structure Format
 - Series
 - Prefix
 - Basic (family) Number
 - Suffix
 - Configuration Code

Specification Problems



- Model Number alone does not fully describe product capabilities and options
- “Walking Database” Syndrome
 - Considerable human research required to substitute equipment
- Manufacturer catalogs and data sheets are difficult to search or to use for in-house comparison or requirements-analysis activities
- Manufacturer web sites are not standardized and the structure and contents are frequently re-organized without advance notice

Performance Data Solution





Model Specification (EM58)

Display Model Performance

Catalog Reference:

Retrieve

Clear Form

Direct Navigation

PREV



NEXT



Command

Single-Cycle Key(s)



Manufacturer AGILENT TECHNOLOGIES INC

Mfr Code 028482

Model Number E 3643 A-0E3

Catalog Ref 00163051

Description POWER SUPPLY, DC GENERAL PURPOSE

Noun Code 06371 P

OUTPUT MAX VOLTS	OUTPUT MAX AMPS	V-REG LOAD % (LINE %)	RIPPLE % OR MV RMS	TRANSIENT RECOVERY TIME MS	I-REG LOAD % (LINE %)	RIPPLE % OR MA RMS	ADDITIONAL NOTES/DATA
35	1.4	.01% +	1 MV	.05	.01% +	4 MA	SINGLE-OUTPUT DUAL RANGE
60	.8	3 MV	8 PP		.25 MV		OTHER: 60V @ .8A
		(SAME)			(SAME)		GPIB/RS-232 STD
							PROGRAMMABLE SCPI
							OVERVOLTAGE PROTECTION
							OPT. -0E3 230 VAC +/-10%
							OPT. -0E9 100 VAC +/-10%
							OPT. -0EM 115 VAC +/-10%
							OPT. -0L2 EXTRA MANUALS
							OPT. -1CM RACK-MOUNT KIT
							OPT. -UK6 COMMICAL
							E3600A-100 TEST LEAD KIT



Performance Data by Noun (EN77)

Search Models By Performance

Noun Code:
 Noun Major: METER (VOA)
 Noun Minor: MULTIMETER,DIGITAL

Direct Navigation

PREV



Single-Cycle Key(s)



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	DC VOLT RANGE MAX VOLTS	DC VOLT RANGE MIN VOLTS	AC VOLT RANGE MAX VOLTS	AC VOLT RANGE MIN VOLTS	OHMS MAX MGOHM MIN KOHM	AMMETER MAX AMPS	NUMBER OF DIGITS	Manufacturer	Model Number	Catalog Reference
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A	00161066
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	AGILENT	3458A-001-0	00400731
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-002	00161068
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-001	00161069
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-700	00161070
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-W30	00161071
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-001-W30	00161072
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-907	00161073
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-908	00161074
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-909	00161075
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-005	00161076
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-1BP	00161077
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-002-W30	00161078
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	HP	3458A-002-1BP	00161079
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	AGILENT	3458AB	00162010
	1000	.1	1000	.01	1000	1 AC/DC	4.5 TO	AGILENT	3458A-001	00162011

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How Do We Get There?

- Install Catalog Software
 - Interface – Customer Test Equipment Records
- Content Driven Application
 - Initial Data Population - Major Investment
 - AssetSmart Master Catalog Database
 - 320,000 Models
 - 23,000 Manufacturers
 - 3,600 Standard Nouns
 - 75,000 Performance Models

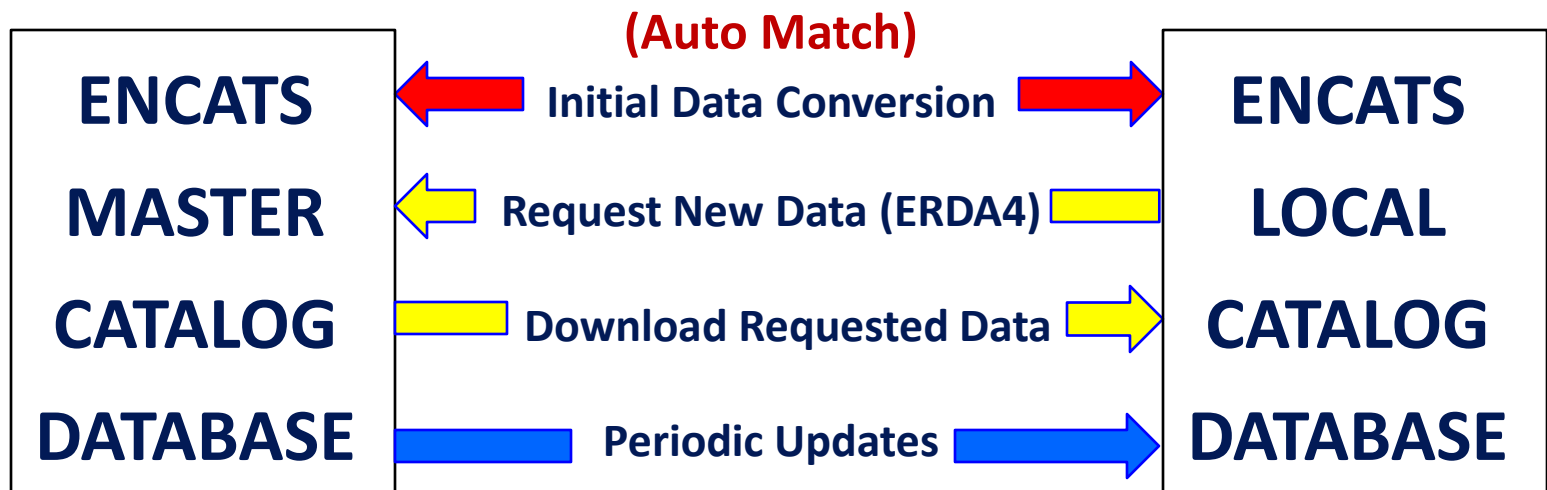
SMART|ENCATS Subscription Model



← INTERNET →

AssetSmart

Customer



Subscription Service



1. Initial Data Conversion
2. Web Based Request Link
3. Web Based Model Data Updates
4. Monthly Updates
 - Manufacturer Data
 - New Nouns
 - Performance Data
 - Header Definitions
 - Model Performance
 - Manufacturer Data Sheets/Links

Advantages of Structured Cataloging



- Institutes nomenclature standardization – common language across all AssetSmart modules
- Eliminates “GIGO” Syndrome (Garbage In – Garbage Out)
- Identifies technical capabilities and substitutes
- Enables responsive Customer Support – simple, powerful search capabilities; self-service
- Facilitates management and analysis reporting by equipment model or type groupings
 - Reliability and obsolescence
 - Optimal calibration/PM intervals
 - Rental chargeback rates
 - Requirements vs. availability
 - Total cost of ownership (TCO)

Visit AssetSmart



AssetSmart Booth #215

Exhibit Hall



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