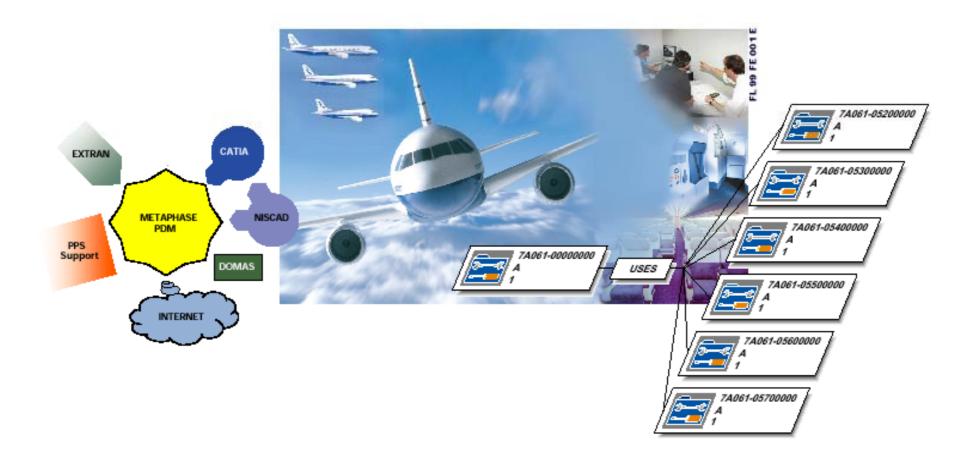
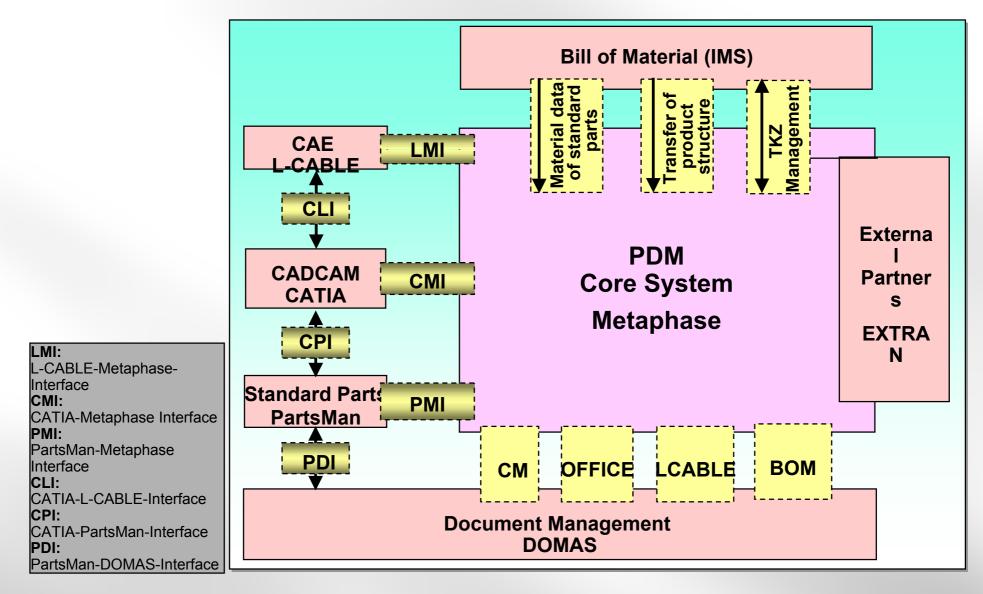


NIS/PartsMan PDM - Integration at Fairchild / Dornier



CMI - NIS/PartsMan Integration PDM Architecture



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CMI - NIS/PartsMan Integration Scope and Objectives

Scope

Tight co-operation for integration of standard parts between NIS/PartsMan and Metaphase/CMI

Objectives

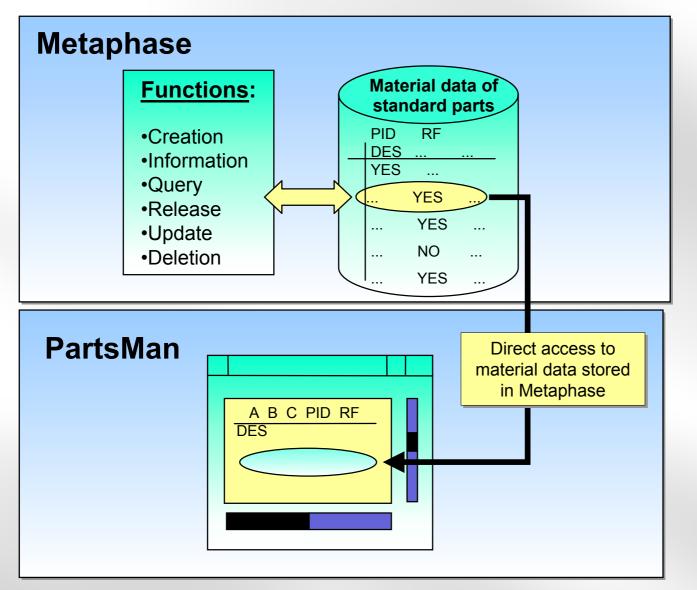
- •Handling of standard parts the same way as "usual" parts in Metaphase/CMI
- •PDM is Master of all used standard parts, PartsMan provides the pool of available standard parts
- •Transparent allocation of PartsMan standard parts to hierarchical assembly structure in PDM

•Convenience and ease-of-use of handling standard parts

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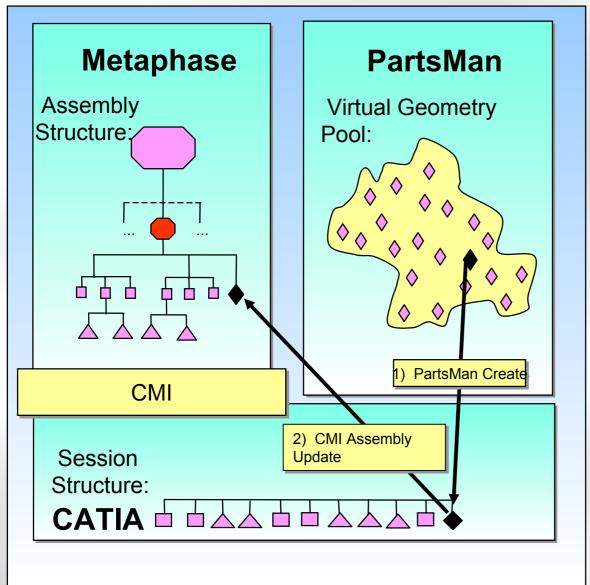
CMI - NIS/PartsMan Integration Interface to Material Data



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CMI - NIS/PartsMan Integration Geometry-Interface



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CMI - NIS/PartsMan Integration Facts of Solution at Fairchild Dornier

•Provision of standard part families based on valid external and corporate standards:

- 260 families already available
- more than 470.000 different parts

•Creation of standard parts geometry in CATIA models (Session)

Storage of data in database with direct access to
 geometric-related data in PartsMan and
 material-related data in PDM

•PartsMan "obeys" to the parts release flag status managed in PDM

- •Management of material data (TKZ, designator, supplier, ...) in PDM: Creation, Update, Query, Info, Release and Deletion
- •Automatic insertion of standard parts model into active assembly
- •Universal expand/collapse feature for all standard parts of an assembly

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CMI - NIS/PartsMan Integration Introduction of NIS/ PartsMan

PDM Phase 1 (CATIA) CATIA Introduction

Project File
Start Model

PDM Phase 2 (Engineering) CATIA Model Management Engineering Data Management

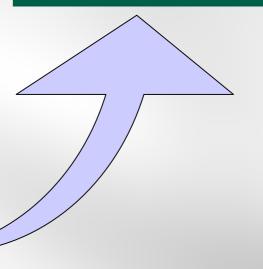
Product structure

Mabagement of part versions

Integration of standard parts

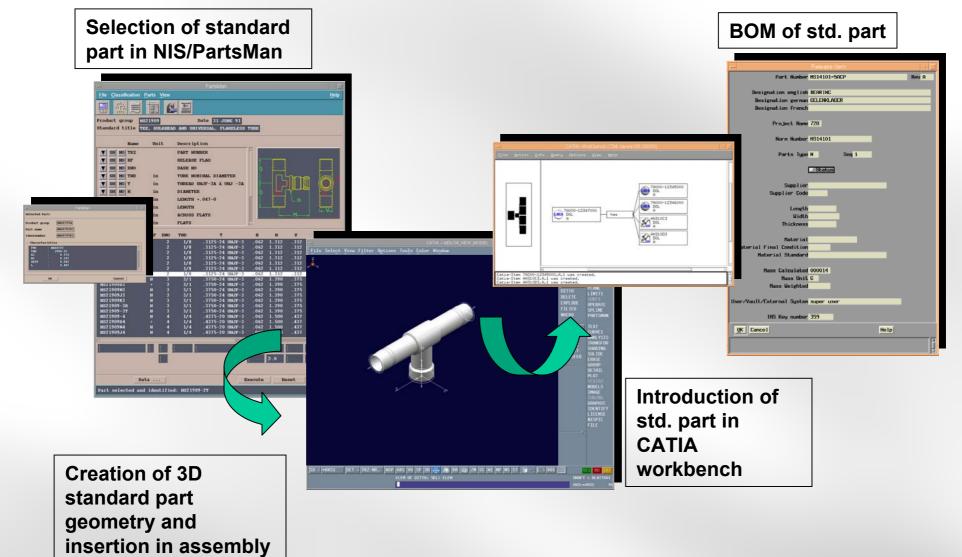
- Basic Modification Management
 BOM
- Management of gadgets
- Life Cycle
- Master-Interface





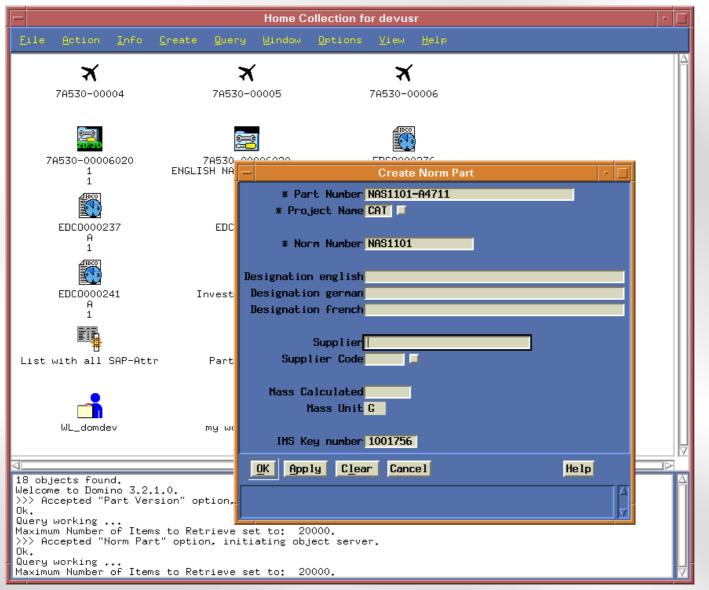
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CMI - NIS/PartsMan Integration Workflow NIS/ PartsMan – Catia-Metaphase



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CMI - NIS/PartsMan Integration Create standard part object



CMI - NIS/PartsMan Integration Browse information of standard part object

Norm Part Objects						· [
<u>F</u> ile <u>A</u> ction <u>I</u> nfo	<u>C</u> reate <u>Q</u> uery !	<u>J</u> indow <u>O</u> ptions <u>V</u> iew <u>H</u> elp				
Item Identifier	Class	Rev Seq Nomenclature	Standard	Part? Make/Buy	Projec	t Name
🔬 NAS1101-02-3	Norm Part	A 1 DOL	False		728	4
🔬 NAS1101-04-10	Norm Part	A 1 DOL	False		728	
🐼 NAS1101-04-3	Norm Part	A 1 DOL	False		728	
🔬 NAS1101-04-5	Norm Part	A 1 DOL	False		728	
🔬 NAS1101-04-7	Norm Part	Iter	n Info Norm Part			
🔬 NAS1101-06-4	Norm Part					
🔬 NAS1101-06-6	Norm Part	Part Number				
🔬 NAS1101-06-7	Norm Part	Project Name				
🔬 NAS1101-06-8	Norm Part	Seq	1			
AS1101-06H5	Norm Part					
🔬 NAS1101-08-10	Norm Part	Norm Number	NAS1101			
🔬 NAS1101-08-12	Norm Part					
🔬 NAS1101-08-6	Norm Part	Designation english	SCREU			
🔬 NAS1101-08-7	Norm Part	Designation german	SCHRAUBE			
🖌 🔬 NAS1101-08-8	Norm Part	Designation french				
🖌 🔬 NAS1101-3-10	Norm Part					
🔬 NAS1101-3-14	Norm Part	Supplier				
🔬 NAS1101-3-8	Norm Part	Supplier Code				
🔬 NAS1101-4-10	Norm Part					
AS1101-4-8	Norm Part	Mass Calculated	000001			
AS1101E04-14P	Norm Part	Mass Unit				
MAS1101E04-3	Norm Part					
AS1101E04-4	Norm Part	IMS Key number	0595962			
AS1101E04-5	Norm Part					
MAS1101E04-7	Norm Part	Status	True			
AS1101E04H5	Norm Part					
▲ NAS1101E04H6 ▲ NAS1101E06-3	Norm Part Norm Part	User/Vault/External System	728 Norm Part Vaul	lt		
MAS1101E06-3	Norm Part Norm Part	Check Out User/Vault				
		Created	05/03/1999 17:50:4	7:353		
Maximum Number of Items to Retrieve set Query Complete.			super user			
Objects found by the query: 65.			05/03/1999 17:50:4	7:647		
>>> Accepted "Get Item Info" option, ini		Last Modifier				
		<u>Close</u> <u>P</u> rint		Help		
1						1

CMI - NIS/PartsMan Integration Release standard part object

-		Norm Part Objects		· 🗆
<u>F</u> ile <u>A</u> ction <u>I</u> nfo	<u>C</u> reate Query Win	ndow <u>O</u> ptions <u>V</u> iew <u>H</u> elp		
Item Identifier	Class	Rev Seq Nomenclature	Standard Part? Make/Buy	y Project Name
🔬 NAS1101-02-3	Norm Part	A 1 DOL	False	728
NAS1101-04-10	Norm Part	A 1 DOL	False	728
🛃 NAS1101-04-3	Norm Part	A 1 DOL	False	728
🔬 NAS1101-04-5	Norm Part	A 1 DOL	False	728
🔬 NAS1101-04-7	Norm Part	A 1 DOL	False	728
🔬 NAS1101-06-4	Norm Part	A 1 DOL	False	728
🔬 NAS1101-06-6	Norm Part			
🔬 NAS1101-06-7	Norm Part		lease Item	
🔬 NAS1101-06-8	Norm Part	* Part Number NAS110	1-04-3	
AS1101-06H5	Norm Part	* Project Name 728		
🔬 NAS1101-08-10	Norm Part	Rev A		
🖌 🔬 NAS1101-08-12	Norm Part	Seq 1		
🖌 🔬 NAS1101-08-6	Norm Part			
🔬 NAS1101-08-7	Norm Part	* Norm Number NAS110)1	
🔬 NAS1101-08-8	Norm Part			
🔬 NAS1101-3-10	Norm Part	Designation english SCREW		
🔬 NAS1101-3-14	Norm Part	Designation german SCHRAU	IBE	
NAS1101-3-8	Norm Part	Designation french		
AS1101-4-10	Norm Part	-		
🔬 NAS1101-4-8	Norm Part	Supplier		
AS1101E04-14P	Norm Part	Supplier Code		
AS1101E04-3	Norm Part			
MAS1101E04-4	Norm Part	IMS Key number 059596	2 * Status	
AS1101E04-5	Norm Part			
MAS1101E04-7	Norm Part	OK Cancel	He	elp
MAS1101E04H5	Norm Part			
AS1101E04H6	Norm Part			
AS1101E06-3	Norm Part			
AS1101E06-4	Norm Part		10130	720
Maximum Number of Item: Query Complete. Objects found by the qu >>> Accepted "Get Item >>> Accepted "Is In Co. >>> Accepted "Release "	uery: 65. Info" option, initi llection" option, in	ating object server. itiating object server.		4
				V

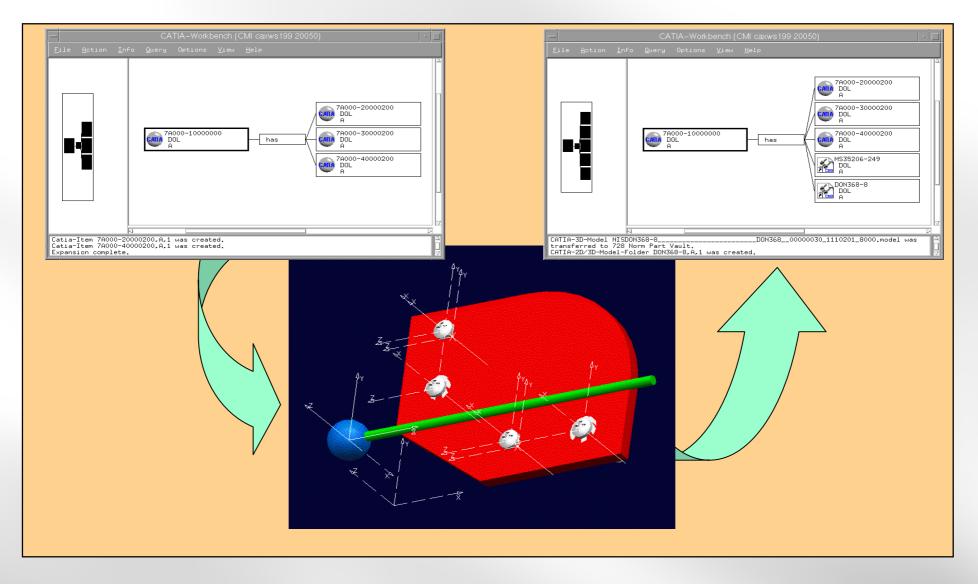
CMI - NIS/PartsMan Integration Create attributes of standard part object

Home Collection for devusr					
<u>F</u> ile <u>A</u> ction <u>I</u> nfo <u>C</u> reate §	Query Window Options View Help				
┍					
Item Identifier Class	s Rev Seq Nomenclature				
FJG-4711-1 Norm	Part A 1 DOL				
	Update Norm Part				
Maximum Number of Items to Re Query Complete. Objects found by the query: >>> Accepted "Get Item Info"	* Norm Number FJG Designation english E FJG Designation german G FJG Designation french F FJG				
<pre>>>> Accepted "Release Item" o >>> Accepted "Get Item Info" >>> Accepted "Open" option, i</pre>	Supplier <mark>SAUERLAND</mark> Supplier Code F Mass Calculated				
	Mass Unit G				
	User/Vault/External System devusr		$\overline{\Delta}$		
4	IMS Key number 1001756	Ø			
Identnr: 1001755 start reading xxxx: 1001755	OK Cancel Help		Δ		
IdentNr. was reset >>> Accepted "Norm Part" option, Ok. Norm Part FJG-4711-1,E FJG,A,1 w Query working Maximum Number of Items to Retri					

CMI - NIS/PartsMan Integration Insert standard part object in assembly

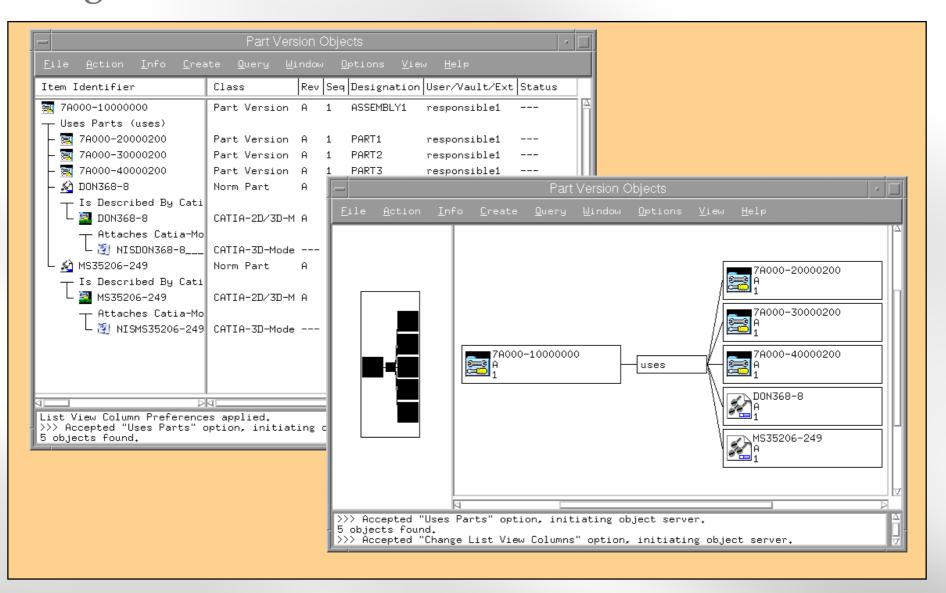
Part Version Objects					•		
<u>Eile Action Info Create Query</u>	<u>W</u> indow <u>O</u> ptions <u>V</u> ie		<u>H</u> elp				
Item Identifier	Class	Rev	Seq	Nomenclature	Standard Part	? Make	
└ 🛒 7М999-19999200	Part Version	Ĥ	1	DOL	False		Δ
└ 🛒 7М999-10020200	Part Version	Ĥ	1	DOL	False		
— 👮 7М999-10002000	Part Version	Ĥ	1	DOL	False		
└ 🛒 7М999-10005000	Part Version	Ĥ	1	DOL	False		
- Uses Elements (uses)							
– 🔜 7M999–10023200	Part Version	Ĥ	1	DOL	False		
L 🔜 7M999-10023201	Part Version	Ĥ	1	DOL	False		
— 🛒 7М999-10003000	Part Version	Ĥ	1	DOL	False		
- Uses Part Version(s) (Uses)							Ы
— 🛒 7М999-10006000	Part Version	Ĥ	3	DOL	False		11
							11
– 🔜 7M999–10024200	Part Version	Ĥ	1	DOL	False		
– 🔜 7M999–10025200	Part Version	Ĥ	1	DOL	False		
– 🔜 7M999–10028200	Part Version	Ĥ	1	DOL	False		
– 🔜 7M999–10028200	Part Version	Ĥ	1	DOL	False		
— 🚀 AN310-5	Norm Part	Ĥ	1	DOL	False		
- 🛄 DOL209	Non-Geometric Part	A	1	DOL	False		11
└ 🔬 HL10VF-12-13	Norm Part	Ĥ	1	DOL	False		11
— 🛒 7М999-10007000	Part Version	Ĥ	1	DOL	False		
Uses Elements (uses)							11
— 🔄 7М999-10026200	Part Version	Ĥ	1	DOL	False		11
└ 🔄 7М999-10027200	Part Version	Ĥ	3	DOL	False		11
└ 🛒 7М999-10021200	Part Version	Ĥ	1	DOL	False		11
L 🔬 NAS1101E4-36	Norm Part	Ĥ	1	DOL	False		Ā
	4					\geq	
Maximum Number of Items to Retrieve set to: 20000. Query Complete. Objects found by the query: 1. >>> Accepted "Uses Parts" option, initiating object server. 4 objects found. 7 objects found. 19 objects found. The multilevel expansion is complete. >>> Accepted "Get Item Info" option, initiating object server.							

CMI - NIS/PartsMan Integration Integration of Standard Parts: Update



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CMI - NIS/PartsMan Integration Integration of Standard Parts: Product Structure



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