

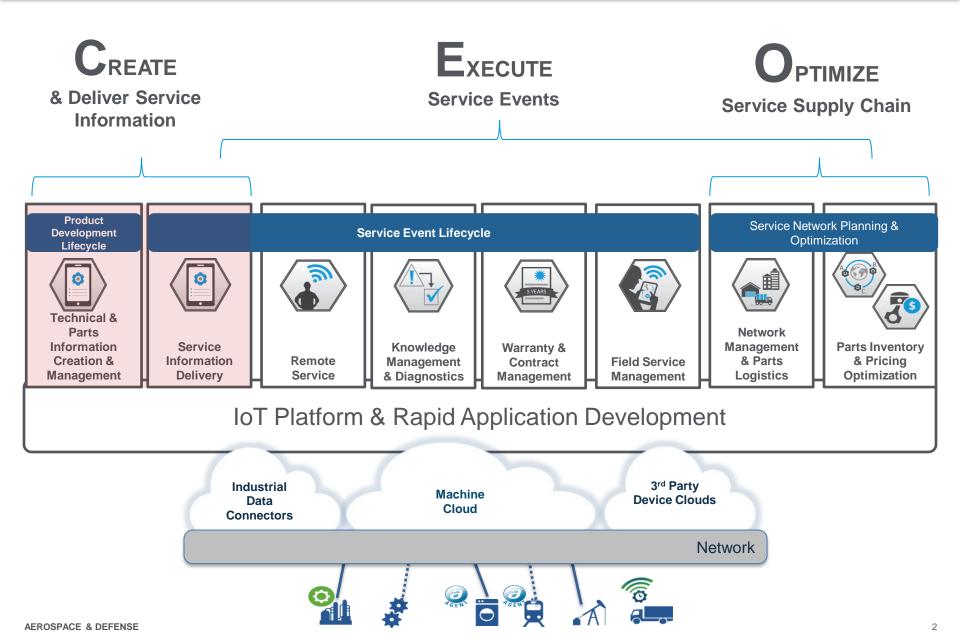
Technical Information for A&D

S1000D

Ian Boulton Sr Director Solution Management

March 12, 2015

PTC's SLM Portfolio for "Connected Service"

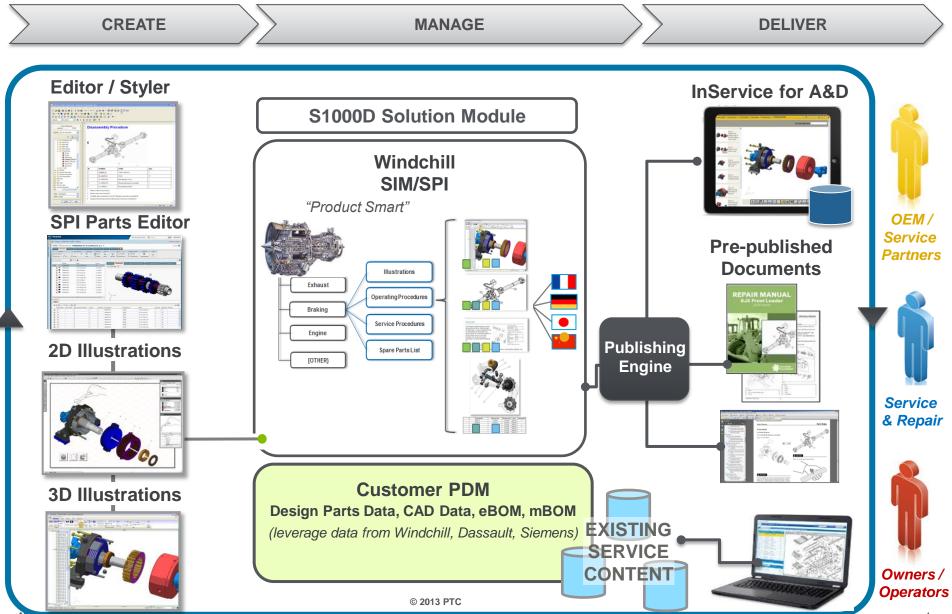




High Level Solution Modules Stack & Functional Scope

PTC Technical Information for A&D: Solution Overview

PTC®





SIM S1000D Capabilities Overview

Current release 10.2 M022

Technical Information Solution Overview

Windchill Based Solution for Technical Information Authoring, Content Management, Publishing and Delivery

Leverage Service Information Manager / Service Parts Information Capabilities

- Provide structured authoring of reusable information components to automate the publishing of personalized, product- and language-specific content.
- Enable single-source management of structured document components (DM), 2D and 3D graphics, and links to related enterprise data in order to automate authoring, review, approval, and change management workflows
- Enable creation of Publication layout structures

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	PMC-MP-0K0D7-VMM0	1.(Publication module Hold	ler			DMC-MP-A-00-00	02-00A-012A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	WIP	000	01	General warnings cautio
	4 🛃 A	Common Components	System Difference Code				DMC-MP-A-00-20	00-00A-040A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	WIP	000	01	Publication data - Introc
	> 🔚 00	General Information	System Code				DMC-MP-A-A0-00	-00-00A-042A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	PENDING	000	01	Propulsion - General - G
	4 🔚 A0	Propulsion - General	System Code			6	DMC-MP-A-A0-10	-00-00A-041A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	WIP	000	01	Engine - general - Descri
	a 🔚 00	Propulsion - General - Ge	Sub System Code & Sub	Sub System C	ode A sys	6	DMC-MP-A-A3-00	-00-00A-040A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	WIP	000	01	Engine cooling system -
	a 🔚 00	Propulsion - General - Ge	Assembly Code				DMC-MP-A-A3-10	-00-00A-920A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	QAREQUIR	000	01	Fluid - Radiator - Chang
	a 🖵 00	Propulsion - General - Ge	Disassembly Code			6	DMC-MP-A-A6-40	-10-00A-040A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	WIP	000	01	Filtration - Oil filter - De
	Þ 🔚 A	Propulsion - General - Ge	Disassembly Code Variar	nt		6	DMC-MP-A-A6-40	-10-00A-941A-A	June 5, 2013	IPD (Flat)	01 - Unclassified	WIP	000	01	Filtration - Oil filter - Illu
	Þ 🔚 10	Engine	Sub System Code & Sub	Sub System C	ode	6	DMC-MP-A-A7-30	-00-00A-040A-A	June 5, 2013	Descriptive (Flat)	01 - Unclassified	QAREQUIR	000	01	Brake assembly - Genera
	Þ 🔚 A3	Engine cooling system - G	System Code				DMC-MP-A-B3-05	-00-00A-215A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	QAREQUIR	000	01	Wheels - General - Fill w
	> 🔚 A6	Lubricationsystems - Gene	System Code			6	DMC-MP-A-B3-05	-00-00A-280A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	WIP	000	01	Wheels - General - Inspe
	> 📴 A7	Transmission - General	System Code			6	DMC-MP-A-B3-05	-00-00A-520A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	QAREQUIR	000	01	Wheels - General - Remo
	🖻 🔚 ВЗ	Suspension/track/wheels	System Code				DMC-MP-A-B3-10	-10-00A-530A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	WIP	000	01	Suspension unit - Rear a
	B4	Turret assembly	System Code				DMC-MP-A-B3-10	-10-00A-922A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	WIP	000	01	Suspension unit - Rear a
	> 🔚 C1	Gun control systems - Gen	System Code				DMC-MP-A-B3-20	-00-00A-300A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	WIP	000	01	Road wheel hub assemb
	> 🔚 C2	Fire control systems - Gen	System Code				DMC-MP-A-B3-20	-00-00A-520A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	WIP	000	01	Road wheel hub assemb
	E0	Integrated communications	System Code				DMC-MP-A-B3-20	-00-00A-720A-A	June 5, 2013	Procedural (Flat)	01 - Unclassified	WIP	000	01	Road wheel hub assemb
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Service Information Manager with S1000D Module

Enterprise level solution for technical information management

- Required to set up and administer S1000D projects
- Import/export data
- Set up SNS Set up DMRL

- Set up and parse against project BREX
- Manages XML and Illustration requirements
- Manages Project Workflow
- Support for 4.0 & 4.1 schemas

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		- B= 00	ineral	System Code		DMC-MP-A-00-05-00-00A-286A-D	17 May 2012	Procedural (Flat)	01 - Unclassified	W.I.P	000 01	Servicing - General - Make safe proc
option below and then "Submit		> <u>F</u> = 00	eneral	Sub System Co		DMC-MP-A-00-05-10-00A-285A-A	07 February 2013	Maintenance Planning (Flat)	01 - Unclassified	Issued	001 00	Servicing - Weekly service - Pre use o
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U		> [00	Fluid - Radiator	Disassembly C	de	DMC-MP-A-A3-10-10-00A-920A-A	17 May 2012	Procedural (Flat)	01 - Unclassified	WLP	000 02	Fluid - Radiator - Change = remove
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Product Creator: Rakesh Ghodke		⊳ В⊒ вз	Suspension/track/wheels	System Code	1	DMC-MP-A-A6-40-10-00A-941A-A	17 May 2012	IPD (Flat)	01 - Unclassified	WLP	000 02	Filtration - Oil filter - Illustrated Part
Froduct Creator. Makesin Ghouke		a 📴 84	Turret assembly	System Code		DMC-MP-A-A7-30-00-00A-040A-A	17 May 2012	Descriptive (Flat)	01 - Unclassified	W.I.P	000 01	Brake assembly - General - Descripti
Host Organization: Demo Organization		# <u>B</u> == 00	General	Sub System Co		DMC-MP-A-83-05-00-00A-215A-A	17 May 2012	Procedural (Flat)	01 - Unclassified	W.LP	000 01	Wheels - General - Fill with air
		▷ Bai 00	General	Assembly Cod		DMC-MP-A-B3-05-00-00A-280A-A	17 May 2012	Procedural (Flat)	01 - Unclassified	W.I.P	000 02	Wheels - General - Inspections
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Technical Information Solution Overview



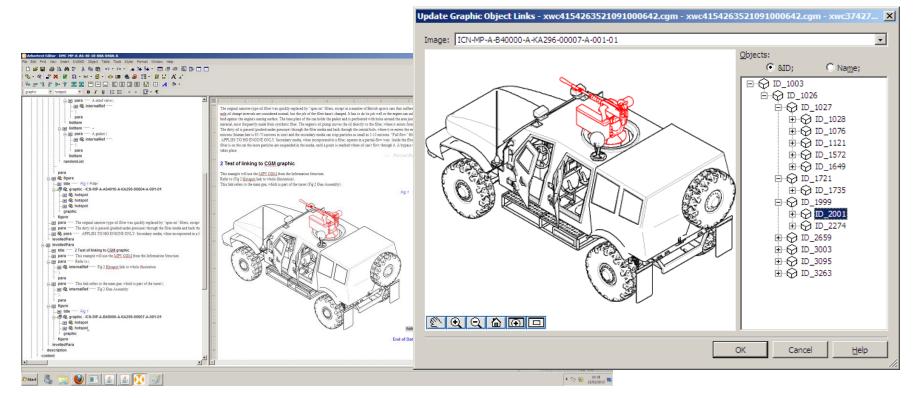
Windchill Based Solution for Technical Information Authoring, Content Management, Publishing and Delivery

- Integrated with **Arbortext Editor** Authoring application
 - Creating and editing Structured content (XML)
 - Working with content both as components and as compound documents
 - Reusing content across an organization
 - Improving information accuracy, consistency, and flexibility
 - Supports both XML Document Type Definitions and XML Schemas for data modeling and validation (including standards)
 - Directly integrated with Windchill Service Information Manager

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Use of standard Arbortext Editor Capabilities

- Functions as primary author interface to the solution
- One required for each writer to author XML data modules
- Enables re use of content via Windchill Service Information Solution CSDB
- Contains authoring "Wizards" for S1000D using standard editor connectivity to SIM





CAD-Based 2D and 3D Technical Illustrations

Practice

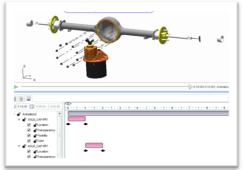
 Automate the creation of high quality, intelligent 2D and 3D illustrations and animations from 3D CAD product designs

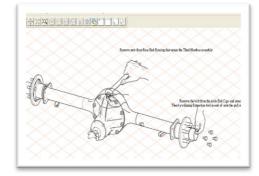
• Capabilities

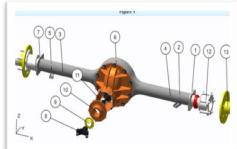
- Reuse of a CAD models as basis for technical illustrations
- Create intelligent, interactive graphics
- Associated textual and graphical content
- Manage, search and retrieve illustrations
- Evaluate impact of changes through "where used" relationships
- Automatic updating of illustration when source CAD models change

Value

- Improve illustrator productivity through integration with CAD and service content
- Eliminate illustration specific requirement on engineering resource
- Start illustration process earlier due to automatic updating of illustration
- Increased information accuracy based on source engineering data
- Improved illustration comprehension due to increased user interaction & control
- Lower localization costs



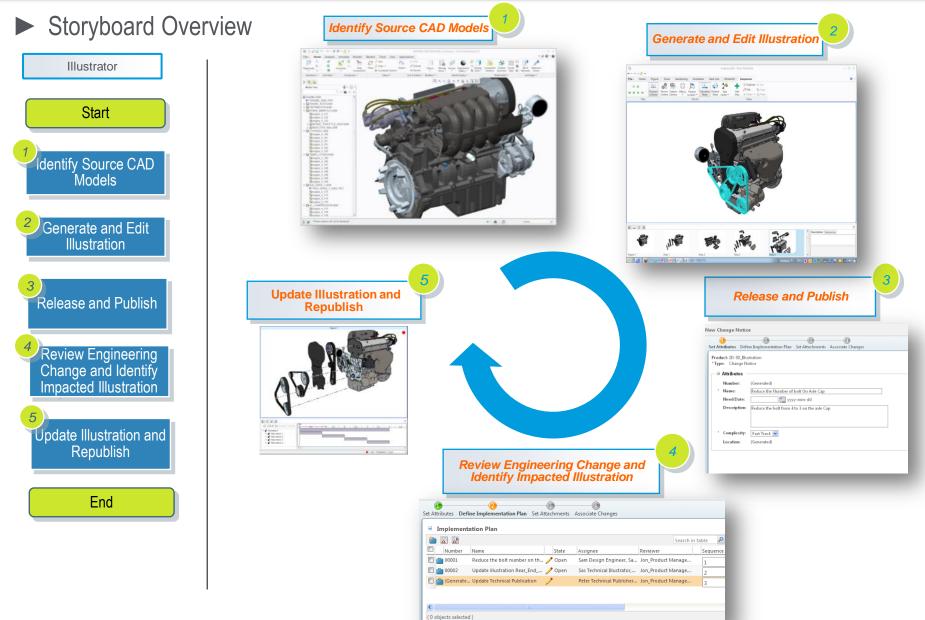




CAD-Based 2D and 3D Technical Illustrations



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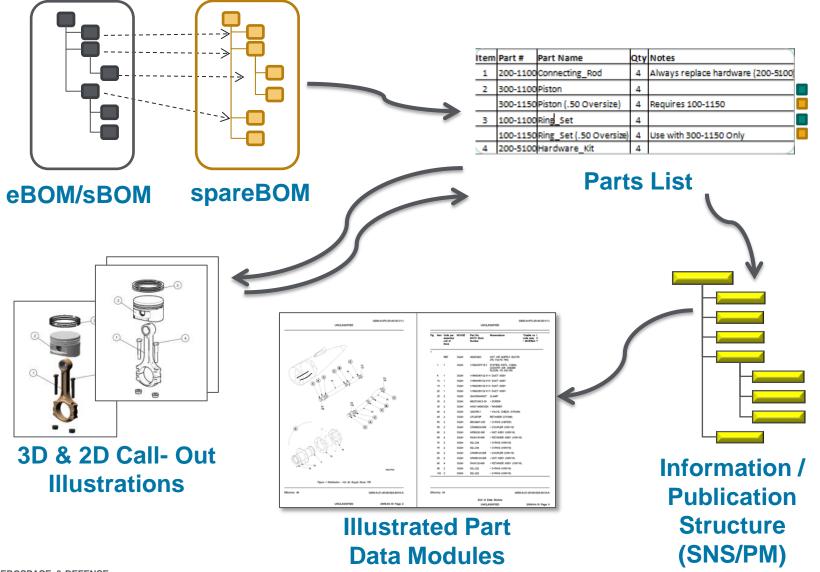




10.2 M030 Available March 2015

Summary of Updates for the 10.2 M030 Release

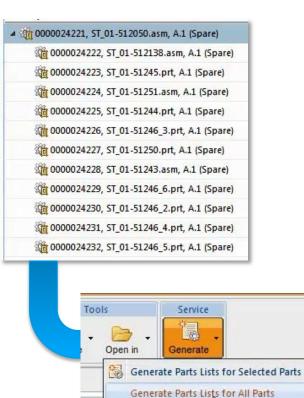
Integration to Service Parts Information to create IPD Data Modules



PTC[®]

Integration to Service Parts Information to create IPD Data Modules

- eBOM/sBOM to SpareBOM Transformation and PartsList Generation (Auto or Manual Selection)



PTC' Windchill' Part, Document, CAD D... V Search Quick Links Products > ST-MPV-WS3 > Folders > PartsList frit. Recently Accessed Actions • 🖀 AAD Part List - 0000000092 (ST 01-512050.asm), A.1 😰 In Work Structure Tools 9 Ú. Views * 201 L Current Filter Insert Existing \$2 Add BOM 1 Display • Edit Filter Saved Filters 🎲 insert New 🔹 🥖 Edit 🔹 Check in • Paste Copy Add to Add Bustration Represen * 0 A T A A Name Version ST 01-512050.asm A.1 Number Visualization ST_01-512050.asm AI [4] 4 > 1 1 38 ST_01-512138.asm 0000024222 A.1 (Spare) ST_01-51245.prt 0000024223 A.1 (Spare) 0000024224 ST 01-51251.asm A.1 (Spare) 0000024225 ST_01-51244.prt A.1 (Spare) 000024226 ST_01-51246_3.prt A.1 (Spare) 0000024223 ST 01-51250.prt A.1 (Spare) 0000024228 ST 01-51243.asm A.1 (Spare) 0000024229 ST_01-51246_6.prt A.1 (Spare) ST 01-51246 2.prt 0000024230 A.1 (Spare) 0000024231 ST_01-51246_4.prt A.1 (Spare) 0000024232 ST_01-51246_5.prt A.1 (Spare) >> 4 💱 🔅 🗕 🗄 🖕 🕒 🕲 🕋 .0 Item Number Item Variant Quantity Illustrated Remarks Item Sequence Number Variant Indenture Part Number Manufactures Name 面 0000024222 ST_01-512138.asm 100 0 1 KA296 1 Yes 0000024223 ST_01-51245.prt 1 110 0 A 1 C0419 3 Yes 20 120 0 A 1 0000024224 SF518 ST 01-51251.asm 1 Yes 1 130 0 0000024225 C3002 ST_01-51244.prt Yes A 1 造 0000024226 ST_01-51246_3.prt 140 0 A 1 KA296 1 Yes 150 0 1 0000024227 KA296 ST_01-51250.prt Yes 1 1 曲 160 0 1 0000024228 KA296 ST_01-51243.asm 1 Yes 170 0 0000024229 SE518 ST 01-51246 6.prt ्रत A 1 1 Yes

- Integration to Service Parts Information to create IPD Data Modules
 - Creation of S1000D IPD Data Module from SNS Tree and Association with PartsList

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- Integration to Service Parts Information to create IPD Data Modules
 - From the PartsList, Automatic Generation of the IPD DM Content and PDF Publication

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00024227 ST_01-51250.pf	
00024228 ST_01-51243.aem	
00024229 ST_01-51246_6.ptt	
00024230 ST_01-51246_2.prt	
00024231 ST_01-51246_4.pft	
100024232 ST_01-51246_5.pt	
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End of data module UNCLASSIFIED 2014-09-09 Page 1	
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DEMO	

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Import and management of Applicability ACT/CCT/PCT

- Includes import of ACT/CCT/PCT
- Management of the Applicability options now controlled through the Windchill UI
- Synchronisation of the Data Module Level Applicability to the Manage Applicability dialog
- To come : Publishing with Applicability/inline filtering
- To come : CIR External Applicability as CIR is not part of this release.

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Forward Looking Information Subject to Change

Publishing & Delivery with Arbortext Publishing Engine

Windchill based Solution for Technical Information Authoring, Content Management, Publishing and Delivery

- Manipulate, Aggregate, and Profile Content
- Enterprise level, server side publishing i.a.w guidelines (e.g. S1000D)
- Publishing processes automated via CSDB workflows
- Style sheets customizable via Editor Styler Interface

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F F1 MP-KA295-MP001-00		Publication module H	DMC-MP-A-00-00-00-012A-A	16 May 2012	Descriptive (Flat)	24		Table 1 Required C	ondiționa		aircraft is supported by jacks and th	at the landing gear is not in conta
- 100 A	Common components	System Difference Code	DMC-MP-A-00-00-00A-022A-A	16 May 2012	Brex (Flat)		Title	Data I	lodule	2 Grasp either	no. the port or starboard landing strut a	a confirm that the landing ager in
+ B=00	General	System Code	DMC-MP-A-00-05-00-00A-286A-D	17 May 2012	Procedural (Flat)	0	AC is safe for maintenan	e MQ9-A	E05-00-10-00A-235A-D		fully deployed position.	to continue plat pre landing gear is
> E=100	General	Sub System Code & S	DMC-MP-A-00-05-10-00A-285A-A	07 February 2013	Maintenance Planning P	flat) 0						
> E os	Servicing	Sub System Code & S	DMC-MP.A.00-20-00-00A-040A-A	03 June 2012	Descriptive (Flat)	0	Support Equipment			Note	recording of information. Before pro	section confirm IEPD connect or
> E= 15	Common data	Sub System Code & S	DMC-MP-A-00-42-10-00A-00PA-A	17 May 2012	Product Cross Reference	Tabl_ 0				appropriate manual form an	d recording device are available.	seeding committe in the scattliner of
> 🚰 20	Publication data	Sub System Code & S	DMC-MP-A-00-42-10-00A-00QA-A	17 May 2012	Conditional Cross Refere	ince 0		Table 2 Support Ed	lioment	3 Identify the V	liring Harness and confirm the Part	Number of the installed unit. Recor
> [] 42	Information sets	Sub System Code & S	DMC-MP-A-00-42-10-00A-00WA-A	17 May 2012	Applicability Cross Refer	ence 0.	Nomenclature		ty Remarka	the Part Nun	ber electronically or manually.(XREF Multimedia Object reference h	NOT YET NOT YET HANDLED).
> E= 43	Demonstration subsystem	Sub System Code & S	DMC-MP-A-00-43-00-00A-00AA-A	12 June 2012	Descriptive (Flat)	0	None				Hamesa Removal	are
P EP AO	Propulsion Engine cooling	System Code System Code	DMC-MP.A.00.43-00-00A-040A-A DMC-MP.A.00.43-00.00A-041Z-A	05 June 2012	Descriptive (Flat)	°	None			4 Locate the u	oper end of the Wire Harness asser	bly. The upper harness is connect
> Ranoo	General	Sub System Code & S	DMC-MP-A-00-43-00-004-0412-A	12 June 2012 01 June 2012	Descriptive (Flat)		Consumables, Materials, ar	d Expendables		at two locatio		
- 10	Fluid	Sub System Code & S	DMC-MP-A-A0-10-00-00A-041A-A	17 May 2012	Descriptive (Flat)					5 Disconnect the	e harness end that is attached to th	e XYZ by rotating the plug ring
4 20 10	Radiator	Assembly Code	DMC-MP-A-A3-00-00-004-040A-A	17 May 2012	Descriptive (Flat)		7.	ble 3 Consumables, Material	and Evenendebles	5.1 Verify t	hat the plug ring rotates freely and i	s not in contact with the threaded
> E= 00	Fluid - Radiator	Disassembly Code	DMC-MP-A-A3-10-10-00A-920A-A	17 May 2012	Procedural (Flat)	0	Nomenclature		ty Remarks	recepta		
P BPA6	Engine Lubrication	System Code	DMC-MP-A-A6-00-00-00A-415A-A	17 May 2012	Fault Isolation (Flat)	0		roomphoopon NO.	w romano	5.2 Plug m HANDL	ay now be disengaged from recepta-	le.(XREF NOT YET NOT YET
⊳ <mark>}⊒</mark> .A7	Transmission	System Code	DMC-MP-A-A6-40-10-00A-040A-A	17 May 2012	Descriptive (Flat)	0	None			- HANDE	Multimedia Object reference h	919
> [] 83	Suspension/track/wheels	System Code	DMC-MP-A-A6-40-10-00A-941A-A	17 May 2012	IPD (Flat)	0					Hamess Removal	
▲ [-] 84	Turret assembly	System Code	DMC-MP-A-A7-30-00-00A-040A-A	17 May 2012	Descriptive (Flat)	0				6 Locate the lo connected at	wer end of the Wire Harness assem	bly. The lower harness end is
. [_] 00	General	Sub System Code & S	DMC-MP-A-83-05-00-004-215A-A	17 May 2012	Procedural (Flat)	0					e harness end that is attached to the	e ABC by rotating the plug ring
> 10	General Manned	Assembly Cade Assembly Cade	DMC-MP-A-83-05-00-00A-280A-A	17 May 2012	Procedural (Flat) Procedural (Flat)	0				counter-clock	vice.	
* D@ 10	Hanned	Assembly Look	E Lunc-MP-A-83-05-00-00A-520A-A	17 May 2012	mucedural (Hat)	0				7.1 Verify t	hat the plug ring rotates freely and i	s not in contact with the threaded
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