



MARINE CORPS SYSTEMS COMMAND
Equipping our MARINES



JOINT CLOTHING & TEXTILE MODERNIZATION INITIATIVE (JCTMI)

Ms. Cindy Stocks & Ms. Emily Madden

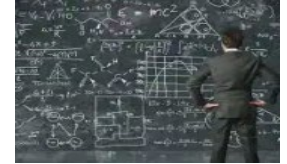
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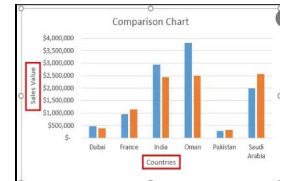
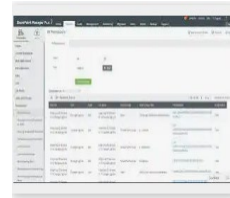
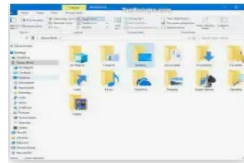
Evolution for DoD Clothing and Textiles

Current DoD

Manual



Electronic



Information

Specifications

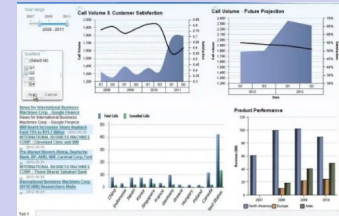
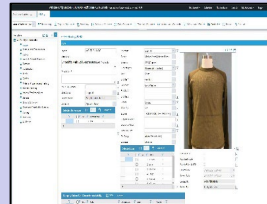
Repositories

Search

Analytics

Future DoD

Digital





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Transition to Product Data

Current

Specification (Word Document)

The image shows a technical specification document for a 'MATERIAL SPECIFICATION DRAWERS, MEN'S, COLD WEATHER BASELAYET'. It includes various sections such as 'SCOPE', 'CLASSIFICATION', and 'MATERIAL PROPERTIES'. The document is dense with text and technical details.

- A. Common DoD terminology sectional format, information in paragraph format
- B. Minimal images or pictures
- C. Unable to search across multiple documents

Interim

Tech Pack (Excel)

The image shows an Excel spreadsheet titled 'METHOD OF MEASURE'. It contains a table with columns for 'CODE', 'POINT OF MEASURE', 'METHOD', and 'FIGURE'. The table lists measurement points for a garment, such as 'Sleeve Circumference' and 'Chest Circumference'. There are also diagrams of a shirt and pants with measurement lines.

- A. Common DoD terminology functional format, information in data format
- B. Increased images & pictures
- C. Unable to search across multiple documents

Future

Tech Pack (Database)

- A. Common DoD terminology, functional format, information data / library format
- B. Increased images or pictures depending on functional area
- C. Search capability across multiple end items and components

The image shows a web-based interface for product data management. It displays a 'Style Header' for 'MC-PD-21-U002'. The interface includes various fields for 'Style', 'Material and Components', 'Quality', and 'Dimensions'. There is also a visual representation of the product, a brown long-sleeved shirt, and a table for 'Selected Sizes'.



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Current

Specification
(Word Document)

Collage of current specification word documents. A yellow box labeled 'A' highlights a red circle around the word 'SCOPE' in a document titled 'DETAIL SPECIFICATION: DRIVERS, MESH, COLD-WEATHER BASELAYER'. Other documents visible include 'SAE INTERNATIONAL' and 'MATERIAL PROPERTIES'.

Future

Tech Pack
(Database)

- A. Document Sections
- B. Tabs on excel (by functional area)
- C. Functional areas working areas in PLM

Interim

Tech Pack
(Excel)

Collage of interim Tech Pack Excel spreadsheets. A yellow box labeled 'B' highlights a red circle around a tab in the 'MATERIAL AND COMPONENTS' spreadsheet. Other spreadsheets visible include 'MATERIAL PROPERTIES', 'METHOD OF MEASURE', and 'MATERIAL PROPERTIES'.

Screenshot of a PLM system interface. A yellow box labeled 'C' highlights a red circle around the 'Style Information' menu. The interface shows a product page for 'MC-PD-21-0002' with various attributes like 'Color', 'Material', and 'Size'.

B



Background

Status Update

JCTMI Integration Points

Next Steps

- 1QFY23 – increase IPT and JSFiptWG member participation and service POC representation
- Continue to provide input for PLM beta testing

Navy POCs:

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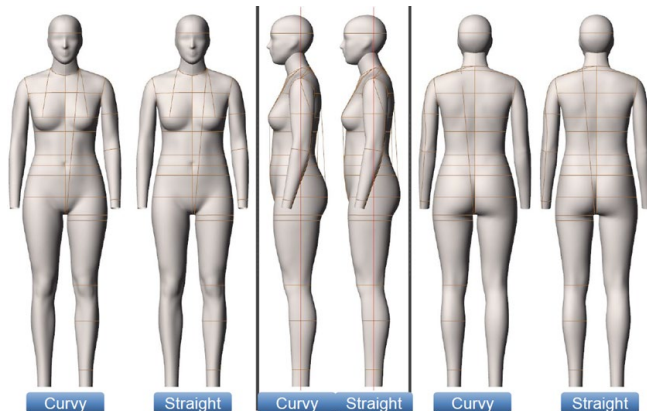
US NAVY Female Size Standardization Fit Evaluation

Background

- Navy partnered with industry consultant to:
 - Identify USN female sizing and body types using the FY14-15 USN Anthropometric Correlation Study
 - Develop standardized pattern tools including Navy fit forms, block patterns, and 3D avatars to facilitate pattern development for consistent fit and sizing
 - Increase ROIs for Sailor and NEXCOM
- “Achieving Best Fit with Minimal Alterations”**

JCTMI Integration Points

- Participation from Army and Marine Corps
 - Portable Body Scanning – PassFit (Comparison)
 - New fit test processes – digital surveys to assess fit



Status Update

- 18- 29 July 2022 – Little Creek, VA - Large scale fit evaluation for service dress uniforms
- NCTRF teamed up with the industry consultant to assess the proposed improved fit and sizing and validate the USN uniforms developed utilizing new pattern tools
 - Over 400 officer and enlisted female sailors
 - Over 1,000 prototype garments – each item had at least one full range of 54 unique sizes (two fit types, nine sizes, and three statures)

Next Steps

- 1QFY23
 - Review results from industry consultant and analyze raw data
 - 31 Oct - 4 Nov – San Diego, CA continue large scale fit evaluation to increase participant diversity and to increase confidence level of fit and sizing assessment
- In-house NCTRF analysis to assess block pattern utilization and to identify potential gaps/risks
- Continue synergy with joint services
 - Sharing of data, blocks, and avatars
- Lead POCs:
 - Louise A. Caulfield (louise.a.caulfield.civ@us.navy.mil)
 - Dr. Brianna Plummer (brianna.l.plummer2.civ@us.navy.mil)



JCTMI

3D Design Software

JAPBI Nov 2022

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3D Design Software Implementation



AFLCMC... Providing the Warfighter's Edge

Background:

- Researching 3D Design software
- Looking at how to incorporate 3D design into our programs

What We've Done:

- AFUO has been trained on Clo3D and Browzwear V-Stitcher Pro
- Currently comparing the two systems with AF Development
- Researching databases for each program

DoD/ Industry Advantages:

- Commonality between Services
- Reduces production samples and prototyping
- Speeds up design development
- Improve fit to reduce alterations
- Better size tariff
- Improve communication with industry

