# Using Design Structure Matrix (DSM) Techniques in a Major Defense Acquisition Program (MDAP) to Define the Product Development (PD) Work Products

Abstract: A United States Department of Defense Major Defense Acquisition Program (MDAP) in the Product Development (PD) life cycle phases can employ Design Structure Matrix (DSM) techniques to more accurately identify work products by modeling entities and relationships between the System of Interest (SOI) and its life cycle data. By taking a simplified view that the MDAP is a data transformation effort resulting in the establishment of a SOI technical baseline, DSMs and Domain Mapping Matrices (DMMs) can be used to completely expose the initial and intermediate work products necessary to achieve that outcome. This is accomplished by extending the product domain to create a data subdomain to model the program Data Item Contract Data Item List (DI CDRL) entities and relationships. DI CDRLs can be thought of as the data item content requirements specifications (example: data item requirement spec for the product item requirement spec). By using these DSMs and DMMs the MDAP can produce the lists of product item-named data items (PINDI) that are needed to document the system/product design, verification, and administrative reporting activities. The PINDIs then become the work product and can be used in subsequent Process and Organizational DSMs.

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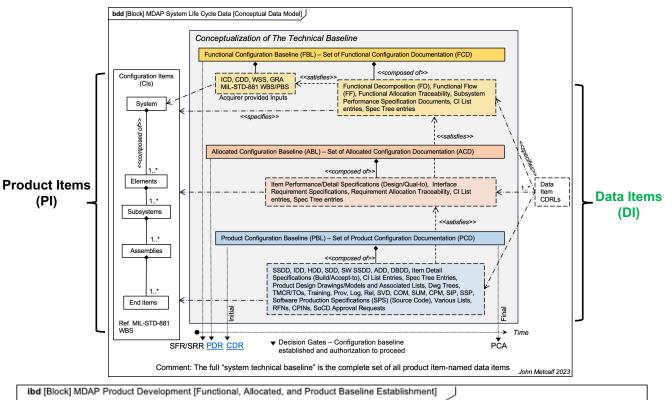
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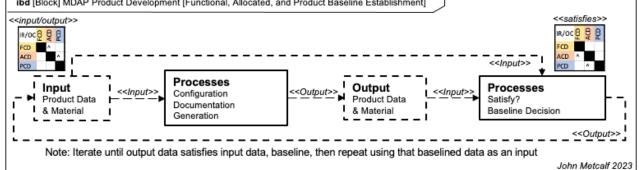


### Major Defense Acquisition Program (MDAP) Overview

- Recuring theme in acquisition policy and guidance
  - The system technical baseline is established at the conclusion of the MDAP Product Development (PD) phases
- The technical baseline is a composition of three configuration baselines which are compositions of sets of configuration documentation Data Items (DI) containing the engineering and development "recipe" for Product Items (PI) within the system hierarchy
  - Configuration baselines: Functional, Allocated, and Product (FBL, ABL, PBL)
  - Configuration documentation: Functional, Allocated, and Product (FCD, ACD, PCD)
  - The MDAP Acquisition Pathway constrains the PD process to sequentially generate and baseline this data
  - Goal Show that DSMs can be used to set up a more suitable "work product" for the MDAP PD.

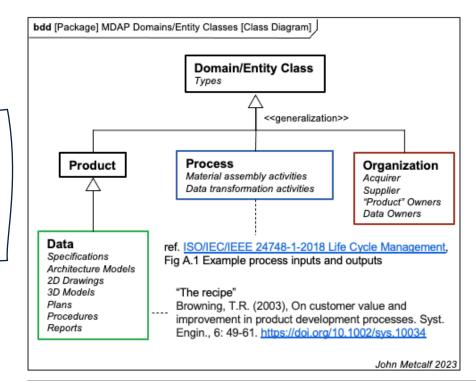


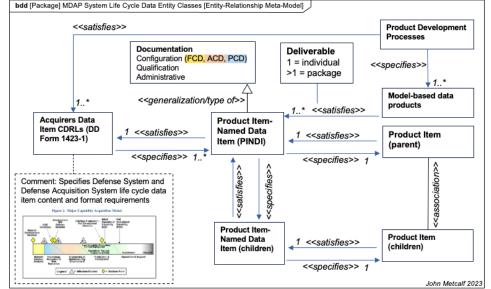




#### **DSM Domains**

- Product Domain Provides a namespace for the data items containing the product items design and the materials required to assemble.
  - Data Domain New domain proposed for PD projects where the customer places high value on the data. Enables modeling of the products design documentation / System Life Cycle Data. Data is transformed by processes.
- Process Domain Transforms input materials and data into output materials and data. Major groups are data generation and data baseline decision.
- Organization Domain Organizational resources can be allocated to perform processes, assigned ownership, and responsibility for producing and maintaining data items and product items.
- Use of DSMs from the Product and Data Domains to identify the MDAP PD work product is the focus of this briefing
  - Product Item (PI) DSM
  - Data Item (DI) DSM
  - Product Item-Data Item (PI-DI) DMM & DSM





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# **PI DSM**

- Create a PI DSM that exposes the hierarchical indenture relationship(s) of all known PIs
  - Tip: MIL-STD-881 Work Breakdown Structures (WBS) for Defense Materiel Items provides top level Product Breakdown Structures (PBSs) for typical defense materiel items and contains guidance to extend to lower levels.
  - This product item list (and the WBS) grows as the MDAP PD effort progresses
    - By FBL establishment ~ hundreds
    - By ABL establishment ~ thousands
    - By PBL establishment ~ tens of thousands
- Use that PI DSM to create an indentured product item list that represents all product items and their uses
- This indentured product item list will be one axis of the PI-DI DMM
- Optional: Create PI DSMs representing fundamental relationships such as functional allocation, flow, etc. to enrich the upcoming PI-DI DMM mapping.

Product Item Design Structure Matrix (DSM) of a partial Product Breakdown Structure (PBS) from MIL-STD-881F Appendix D.

The L relationship/dependency is for LOGICAL COMPOSITION (COMPOSED OF). The product item in the column of rows is logcally composed of the product items in the row of columns.

The P relationship/dependency is for PHYSICAL COMPOSITION (COMPOSED OF). The product item in the column of rows is physically composed of the product items in the row of columns.

| Example only, mapping is arbitrary                              | 1.0 Sti | 1.4 Co | 1.4.2    | 1.4.3 | 1.4.4 | 1.4.5 | 1.4.6 | 1.4.7 | 1.4.8 | 1.8 Tr | 1.8.1 | 1.8.2 | 1.8.3 | 1.8.4 | 1.10 P | 1.10.1 | <u>5</u> | 1.11 C | .11       | .11.2 |
|---|---------|--------|----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|--------|----------|--------|-----------|-------|
| _ 1.0 Strategic Missile Systems                                 |         |        | <b>—</b> | 1     |       | -     | 1     | -     | 1     | L<br>L | -     | -     | 1     | -     | L<br>L | -      |          | Ē      | F         | 1     |
| 1.4 Command and Launch  |         | F      | L        | L     | L     | L     | L     | L     | L     | -      |       |       |       |       | -      |        |          | -      | $\square$ |       |
| 1.4.2 Launch and Guidance Control/Fire Control                  |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.4.3 Communications  |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.4.4 Launch and Encasement Equipment                           |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.4.5 Auxiliary Equipment                                       |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.4.6 Command and Launch (Ground) Software Release 1n (Specify) |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.4.7 Infrastructure  |         |        | Ρ        | Ρ     | Ρ     | Ρ     | Ρ     |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.4.8 Other Command and Launch 1n (Specify)                     |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.8 Training  |         |        |          |       |       |       |       |       |       |        | L     | L     | L     | L     |        |        |          |        |           |       |
| 1.8.1 Equipment   |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.8.2 Services  |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.8.3 Facilities  |         |        |          |       |       |       |       |       |       |        | Ρ     | Ρ     |       | Ρ     |        |        |          |        |           |       |
| 1.8.4 Training Software Release 1n (Specify)                    |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.10 Peculiar Support Equipment                                 |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        | L      | L        |        |           |       |
| 1.10.1 Test and Measurement Equipment                           |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.10.2 Support and Handling Equipment                           |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.11 Common Support Equipment                                   |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        | L         | L     |
| 1.11.1 Test and Measurement Equipment                           |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |
| 1.11.2 Support and Handling Equipment                           |         |        |          |       |       |       |       |       |       |        |       |       |       |       |        |        |          |        |           |       |

Control/Fire

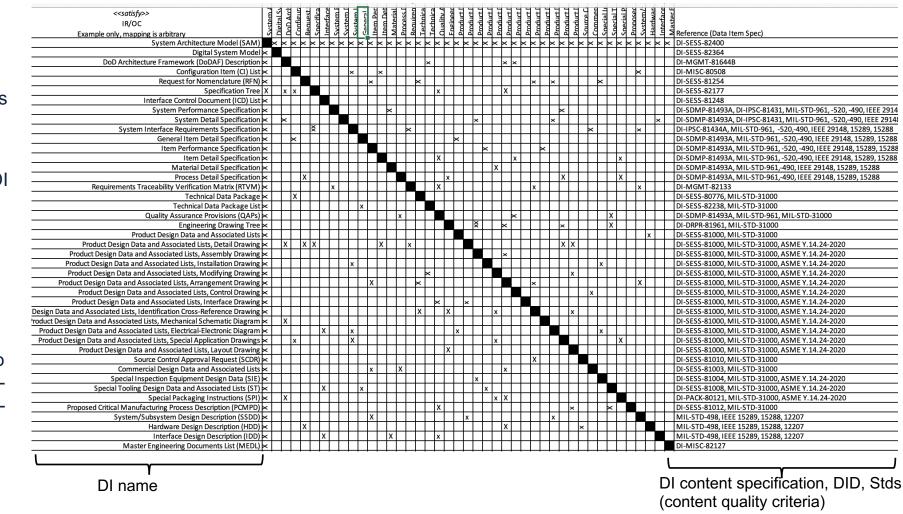
|   |       | Example of a multi-indentured product item list                 |
|---|-------|---|
|   | Lvl 2 | 1.4 Command and Launch  |
|   | Lvl 3 | 1.4.2 Launch and Guidance Control/Fire Control                  |
|   | Lvl 4 | 1.4.3 Communications  |
|   | Lvl 4 | 1.4.4 Launch and Encasement Equipment                           |
|   | Lvl 4 | 1.4.5 Auxiliary Equipment                                       |
| ► | Lvl 4 | 1.4.6 Command and Launch (Ground) Software Release 1n (Specify) |
|   | Lvl 4 | 1.4.7 Infrastructure  |
|   | Lvl 5 | 1.4.2 Launch and Guidance Control/Fire Control                  |
|   | Lvl 5 | 1.4.3 Communications  |
|   | Lvl 5 | 1.4.4 Launch and Encasement Equipment                           |
|   | Lvl 5 | 1.4.5 Auxiliary Equipment                                       |
|   | Lvl 5 | 1.4.6 Command and Launch (Ground) Software Release 1n (Specify) |



# **DI DSM**

- Create a DI DSM that exposes the conceptual input/output relationship between generic DIs
  - Example: Requirement Spec DIs feed Drawing DIs
  - Tip: Relationships between DIs can be inferred by reading the DI CDRLs
  - There could be thousands of DI CDRLs
- The DI list will become an axis on the upcoming PI-DI DMM
  - Optional: Sequence the DI list to minimize feedback or group like-DIs to facilitate the upcoming PI-DI Mapping

Note: Data Item Contract Data Requirements Lists (DI CDRLs <u>dd form 1423-1</u>) are the data item content specifications – aka data item specs. They contain references to Statement of Work (SOW) or Performance Work Statement (PWS) paragraph numbers, industry and military standards/handbooks, and data item descriptions (DIDs). The acquirer's processes are designed to processes document or model-based data in terms of the DI CDRLs.





## **PI-DI DMM and DSM**

- New suggested best practice Create the PI-DI DMM and place marks where data items will document the product items "recipe"
  - Refer to any fundamental relationship PI DSMs
- These marks (Y's) expose the work products that need to be processed by the organization
  - Concatenate product item and data item to create a list of Product Item-Named Data Items (PINDIs), place into new PI-DI DSMs, and back-fill the I/O relationships from the DI DSM
  - Potentially millions of PINDIs
  - In a Document-Centric Systems Engineering approach the solution would be generation and management of individual documents
  - In a Model-Based Systems Engineering (MBSE) approach we should anticipate an innovative solution with several integrated relational databases with referential integrity that can provide the equivalent document view on-demand

|   |   |   |  |  |   |  | <u> </u>   | ypothetical)   | Data  | ltems  |           |   |                          |                      |  |   |                    |  |  |  |
|---|---|---|--|--|---|--|--|--|---|--|-----------|---|--------------------------|----------------------|--|---|--------------------|--|--|--|
|   |   | Functional Baseli   |  | Allocate   |   |  |  |  |   |  |           |   |                          |                      | e (PBL   |   |                    |  |  |  |
|   | DI CDRL->   | Sys/Item Perf   | Func   | Sys/Item   | QT  | QT   | QT   | Item Detail  |   |  | AT        |   | ו  סמ                    |                      | Assy   | Intrfa  |                    |  | SoCD                                     |  |
|   |   | Spec (Design &  | Alloc  | Perf Spec  | Plan  | Proc   | Report   | Spec (Build  | Plan  | Proc   | Repor     | t   |                          |                      | Dwg  | Dwg   | - I'               | Dwg  |  | D  |
|   | Indentured Product  | Qual Reqs)  |  | (Design &  |   |  |  | & Accept   |   |  |           |   |                          |                      |  |   |                    |  |  |  |
|   | ltem List   |   |  | Qual Reqs)   |   |  |  | Reqs)  |   |  |           |   |                          |                      |  |   |                    |  |  |  |
| 1 | L 1.0 Strategic Missile   | Y   | Y  | Y  | na  | na   | na   | na   | na  | na   | na        | X   | :                        | na                   | na   | na  |                    | na   | na                                       | 1  |
| 2 | 2 1.4 C&L   | Y   | Y  | na   | Y   | na   | na   | na   | na  | na   | na        | Y   | '                        | Y                    | na   | na  |                    | na   | na                                       | 1  |
| 3 |   | Y   | Y  | na   | Y   | Y  | Y  | na   | na  | na   | na        | Y   | _                        | na                   | na   | na  |                    | na   | na                                       |  |
| 4 |   | na  | Y  | Y  | Y   | Y  | Y  | na   | na  | na   | na        | Y   | _                        | na                   | na   | na  |                    | na   | na                                       |  |
| 5 |   | na  | Y  | Y  | Y   | Y  | Y  | na   | na  | na   | na        | Y   | -                        | na                   | Y  | na  |                    | na   | na                                       |  |
| 3 |   | Y   | Y  | na   | Y   | Y  | Y  | na   | na  | na   | na        | Y   | _                        | na                   | na   | na  | _                  | na   | na                                       |  |
| - | 1 1 4 2 1 LGC/EC Subsys   | na  | v  | v  | v   | v  | v  | na   | <u>na</u>                                     | na   | <u>na</u> | V   |                          | na                   | na   | na  |                    | <u>n</u> 2                                       | na                                       | +  |
| 5 |   | na  | Y  | Y  | Y   | Y  | Y  | na   | na  | na   | na        | Y   | _                        | na                   | Y  | Y   |                    | na   | na                                       |  |
| 5 | -   | na  | Y  | Y  | Y   | Y  | Y  | na   | na  | na   | na        | Y   | _                        | na                   | Y  | Y   |                    | na   | na                                       |  |
| 3 |   | na  | Y  | Y  | Y   | Y  | Y  | Y  | Y   | Y  | Y         | Y   | _                        | Y                    | Y  | Y   | _                  | na   | na                                       |  |
| 4 |   | na  | na   | na   | ^   | ^  | ^  | ^  | ^   | ^  | ^         | ^   | _                        | na                   | Y  | Y   |                    | na   | Y  | _  |
| 4 |   | na  | na   | na   | ^   | ^  | ^  | ^  | ^   | ^<br>  | ^         | ^   | _                        | na                   | Y  | na  |                    | Y  | na                                       |  |
|   | /   | na  | na   | na   |   |  | ^  | <u>^</u>   |   |  | ^         | ^   | 1                        | na                   | Y  | na  |                    | na   | X  | +  |
| 5 |   | na  | ^  | Y  | ^   | ^  | ^  | Y  | ^   | Y  | ^         | ^   |                          | na                   | Y  | na  | _                  | Y  | na                                       |  |
| 5 | -   | na  | ^<br>  | Y  | ^   | ^  | ^  | Y  | ^<br>   | Y  | ^         |   | _                        | na                   | Y  | na  | -                  | Ŷ  | na                                       |  |
| 6 |   | na  |  | Y  |   |  |  | Y  |   | Y  |           |   | _                        | na                   | na   | na  | -                  | na   | na                                       |  |
| 3 |   | na  | Y  | Y  | Y<br>A  | Y<br>^   | Y<br>A   | Y  | Y<br>A  | Y  | Y<br>A    | Y   | -                        | Y                    | Y  | Y   | $\rightarrow$      | na   | na                                       | -  |
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|   |   |   | FCD  | Y<br>ACD   |   |  |  | Y<br>PCD<br>. Y- data iten   | n asso  | caited   |           | PC  | D F                      | PCD                  | PCD  | na<br>PCL   | >                  | na<br>PCD  | na<br>PCD                                | F  |
|   |   | FCD<br>Legend: na- no   | FCD<br>data ite  | Y<br>ACD<br>m associated   | d with  | produ  | uct item   | Y<br>PCD<br>. Y- data iten<br>higher data  | n asso<br>a iterr                             | ocaited  | with p    | <i>PC</i><br>produ  | D /                      | PCD<br>em.           | PCD<br>^-Nav                                     | na<br><i>PCL</i><br>igate u   | D<br>upwa          | na<br><i>PCD</i><br>ards t                       | na<br><i>PCD</i><br>the                  | ne>  |
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|   |   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br><<1/0 d  | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC  | Y<br>ACD<br>m associated<br>tional/Alloca<br>cy>><br>is arbitrary  | d with<br>ated/F  | produ  | uct item   | Y<br>PCD<br>. Y- data iten<br>higher dat<br>guration Doci  | n asso<br>a item<br>umen:<br>1.4.2.1.1        | ocaited<br>ation -   | A Data    | PC<br>produce<br>a Item   | D H ct it                | 1.4.2.1.1<br>em.     | PCD<br>^-Nav<br>riate                            | na<br><i>PCL</i><br>igate (<br>for the  | 2 FBL              | na<br><i>PCD</i><br>ards t<br><i>L</i> , ABL     | na<br>PCD<br>o the<br>, or PB            | 1.4.2.1.1  |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/P(<br>< /od<br Example only,   | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping   | Y<br>ACD<br>m associated<br>tional/Alloca<br>cy>><br>is arbitrary<br>1.4.2.1.1 C   | d with<br>ated/F  | produ<br>Produc  | uct item<br>ct Config<br>Detail Sp   | Y<br>PCD<br>. Y- data iten<br>higher dat.<br>guration Doct   | n asso<br>a item<br>umen:<br>1.4.2.1.1<br>x   | ocaited<br>ation -   | A Data    | PC<br>produce<br>a Item   | D H ct it                | 1.4.2.1.1<br>em.     | PCD<br>^-Nav<br>riate                            | na<br><i>PCL</i><br>igate u<br>for the  | 2 FBL              | na<br><i>PCD</i><br>ards t<br><i>L</i> , ABL     | na<br><i>PCD</i><br>o the r              | 1 4 2 1 1 1 4 2 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 4 1  |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/P(<br>< /0 d</td <td>FCD<br/>data ite<br/>CD: Func<br/>ependen<br/>IR/OC<br/>mapping</td> <td>Y<br/>ACD<br/>m associated<br/>tional/Alloca<br/>cy&gt;&gt;<br/>is arbitrary<br/>1.4.2.1.1 C<br/>nts Traceabi</td> <td>d with<br/>ated/F</td> <td>produ<br/>Produce<br/>Item I<br/>erificat</td> <td>uct item<br/>ct Confi<u>e</u><br/>Detail Sp<br/>tion Mat</td> <td>Y<br/>PCD<br/>. Y- data iten<br/>higher dat.<br/>guration Doct</td> <td>n asso<br/>a item<br/>umeni<br/>1.4.2.1.1 (<br/>x</td> <td>caited<br/>ation -</td> <td>A Data</td> <td>PC<br/>produce<br/>a Item</td> <td>D   I<br/>ct it</td> <td>PCD<br/>em.<br/>prop</td> <td>PCD<br/>^-Nav<br/>riate<br/>1.4.2.1.1<br/>x x<br/>x x</td> <td>for the</td> <td>2 FBL</td> <td>na<br/>PCD<br/>ards t<br/>L, ABL<br/>TTT<br/>TTT<br/>X</td> <td>na<br/>PCD<br/>o the<br/>, or PB<br/>, or PB</td> <td>A contract of the second secon</td> | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping   | Y<br>ACD<br>m associated<br>tional/Alloca<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabi   | d with<br>ated/F  | produ<br>Produce<br>Item I<br>erificat   | uct item<br>ct Confi <u>e</u><br>Detail Sp<br>tion Mat   | Y<br>PCD<br>. Y- data iten<br>higher dat.<br>guration Doct   | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -  | A Data    | PC<br>produce<br>a Item   | D   I<br>ct it           | PCD<br>em.<br>prop   | PCD<br>^-Nav<br>riate<br>1.4.2.1.1<br>x x<br>x x | for the   | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | A contract of the second secon |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/P(<br>< /od<br Example only,   | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme  | Y<br>ACD<br>m associated<br>tional/Allocc<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1   | d with<br>ated/F<br>Card_C<br>ility Ve<br>Card_   | produ<br>Produce<br>Item I<br>prificat   | uct item<br>ct Confi <u>e</u><br>Detail Sp<br>tion Mat<br>nnical Da  | Y<br>PCD<br>. Y- data iten<br>higher data<br>uration Doce<br>pecification<br>rix (RTVM) ><br>ta Package  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -  | A Data    | PC<br>produce<br>a Item   | D   I<br>ct it           | PCD<br>em.<br>prop   | PCD<br>^-Nav<br>riate<br>1.4.2.1.1<br>x x<br>x x | for the   | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB            | A contract of the second secon |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/P(<br>< /od<br Example only,   | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme  | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1 Carc  | d with<br>ated/F<br>ard_C<br>ility Ve<br>Card_<br>d_C Te  | produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produc    | uct item<br>ct Config<br>Detail Sp<br>tion Mat<br>nical Da<br>I Data P   | Y<br>PCD<br>Y- data iten<br>higher data<br>uration Doce<br>pecification<br>rix (RTVM)<br>ta Package<br>ackage List   | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | ocaited<br>ation -<br>1.77717<br>x x<br>x x<br>x x   | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>r app               | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>x | na<br>PCD<br>o the<br>, or PB<br>, or PB | A contract of the second secon |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br>< /O d<br Example only,<br>4.2.1.1 Card_C Re   | FCD<br>data ite<br>CD: Func<br>IR/OC<br>mapping<br>quireme   | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>ints Traceabil<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc   | ated/F<br>ated/F<br>ated/F<br>ard_C<br>Card_<br>d_C Te<br>rd_C E  | produce<br>Produce<br>Produce<br>Produce<br>Prificate<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech  | Detail Sp<br>Detail Sp<br>tion Mat<br>anical Da<br>Il Data P<br>ering Dr   | Y<br>PCD<br>Y- data iten<br>higher dat.<br>guration Doce<br>pecification<br>rix (RTVM) ><br>ta Package ><br>ackage List<br>awing Tree  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | ocaited<br>ation -<br>14:5717<br>x x<br>x<br>x<br>x<br>x<br>x                                    | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>r app               | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | for the   | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>x | na<br>PCD<br>o the<br>, or PB<br>, or PB | x  |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br>< /0 d<br Example only,<br>4.2.1.1 Card_C Re<br>1.4.2.:  | FCD<br>data ite<br>CD: Func<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card_   | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc  | ated/F<br>ated/F<br>ated/F<br>ard_C<br>Card_<br>d_C Te<br>urd_C E<br>esign I  | produce<br>Produce<br>Produce<br>Produce<br>Produce<br>Produce<br>C Tech<br>C Tech<br>chnica<br>Singine<br>Data a  | Detail Sp<br>tion Mat<br>nical Data P<br>ering Dr<br>nd Asso   | Y<br>PCD<br>Y- data iten<br>higher dat.<br>guration Doce<br>pecification<br>rrix (RTVM) ><br>ta Package J<br>ackage List<br>awing Tree<br>ciated Lists   | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -<br>1.77717<br>x x<br>x x<br>x x<br>x x<br>x x                                  | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>r app               | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>x | na<br>PCD<br>o the<br>, or PB<br>, or PB | R 1.4.2.1.1  |
|   | DI CD Type ->   | FCD<br>Legend: na- no<br>FCD/ACD/P(<br>< /ol <li>4.2.1.1 Card_C Res</li> <li>1.4.2.:</li> <li>1.Card_C Product</li>   | FCD<br>data ite<br>CD: Func<br>ependen<br>RR/OC<br>mapping<br>quireme<br>1<br>1.1 Card_<br>Design D  | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>C Product D<br>rata and Association   | ated/F<br>ated/F<br>ated/F<br>ility Ve<br>Card_<br>d_C Te<br>wrd_C E<br>esign I<br>ociated  | Item I<br>Produce<br>Item I<br>Item Item I<br>Item Item I<br>Item Item Item Item Item Item Item Item   | Detail Sp<br>tion Mat<br>nical Data P<br>ering Dr<br>nd Asso<br>Assemt   | Y<br>PCD<br>Y- data iten<br>higher dat.<br>guration Doct<br>Pecification<br>rix (RTVM)<br>ta Package<br>ackage List<br>awing Tree<br>ciated Lists<br>bly Drawing   | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | ocaited<br>ation -<br>14:5717<br>x x<br>x<br>x<br>x<br>x<br>x                                    | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>r app               | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | P nex  |
|   | DI CD Type -> DI CD Type -> 1 1.4.2.1 1.4.2.1.1   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br><<1/0 d<br>Example only,<br>4.2.1.1 Card_C Re<br>1.4.2.:<br>1 Card_C Product<br>Card_C Product Do  | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card_<br>Design Da   | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1 Car<br>C.4.2.1.1 C     | ated/F<br>ated/F<br>allity Ve<br>Card_<br>d_C Te<br>esign I<br>ociated  | produ<br>Produce<br>Produce<br>Prifical<br>C Tech<br>Chnica<br>Ingine<br>Data a<br>J Lists<br>Lists Ir   | Detail Sp<br>tion Mat<br>Inical Data P<br>ering Dr<br>nd Asso<br>Assemb<br>nstallatio  | Y<br>PCD<br>Y- data item<br>higher dat.<br>guration Docr<br>pecification<br>rix (RTVM)<br>ta Package J<br>ackage List<br>awing Tree<br>ciated Lists<br>by Drawing<br>on Drawing  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | ation -<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.                              | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>r app               | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | R 1.4.2.1.1  |
|   | DI CD Type -><br>DI CD Type -><br>1.4.2.1<br>1.4.2.1.1<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1. | FCD<br>Legend: na- no<br>FCD/ACD/P(<br>< /ol <li>4.2.1.1 Card_C Res</li> <li>1.4.2.:</li> <li>1.Card_C Product</li>   | FCD<br>data ite<br>CD: Func<br>Ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card<br>Design Da<br>esign Da  | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1 Car | d with<br>ated/F<br>ated/F<br>lility Ve<br>Card_i<br>d_C Te<br>rd_C E<br>esign I<br>ociated<br>ciated<br>ciated   | Produce<br>Produce<br>Produce<br>Prificat<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>Lists<br>Lists II<br>Lists  | Detail Sp<br>tion Mat<br>Inical Data P<br>ering Dr<br>nd Asso<br>Assemt<br>Installatio<br>Modifyin   | Y<br>PCD<br>Y- data item<br>higher dat.<br>guration Docr<br>Pecification<br>rix (RTVM)<br>ta Package<br>ackage List<br>awing Tree<br>ciated Lists<br>by Drawing<br>on Drawing<br>ng Drawing  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -<br>x x x<br>x x<br>x x<br>x x<br>x x<br>x x                                    | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | R 1.4.2.1.1  |
|   | DI CD Type -><br>DI CD Type -><br>1.4.2.1<br>1.4.2.1.1<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1.2<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.2.1<br>1.4.   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br>< /ol <li>4.2.1.1 Card_C Re</li> <li>1.4.2.:</li> <li>1.1 Card_C Product<br/>Card_C Product DI<br/>Card_C Product DI<br/>Card_C Product DI</li>  | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card_<br>Design Da<br>besign Da<br>besign Da   | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>C Product D<br>cata and Associata a   | d with<br>ated/F<br>ated/F<br>Card_C<br>J_C Te<br>esign I<br>J_C Te<br>esign I<br>cociated<br>ciated<br>ciated<br>ciated  | Produce<br>Produce<br>Prificat<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>C Tech<br>Lists<br>Lists I<br>Lists<br>Lists I<br>Lists<br>d Lists   | Detail Sp<br>tion Mat<br>mical Da<br>al Data P<br>ering Dr<br>nd Asso<br>Assemb<br>stallatin<br>Modifyin<br>s Interfa  | Y<br>PCD<br>Y- data iten<br>higher dat.<br>yuration Doce<br>Pecification<br>trix (RTVM)<br>ta Package<br>ackage List<br>awing Tree<br>ciated Lists<br>allowing Tree<br>ciated Lists<br>ply Drawing<br>ng Drawing<br>ce Drawing<br>ce Drawing   | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | x x x x x x x x x x x x x x x x x x x  | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | A contract of the second secon |
|   | DI CD Type -><br>DI CD Type 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| FCD<br>Legend: na- no<br>FCD/ACD/PC<br>/O d<br Example only,<br>4.2.1.1 Card_C Re<br>1.4.2.:<br>1 Card_C Product Dr<br>Card_C Product Dr<br>L Card_C Product D<br>1 Card_C Product<br>ign Data and Asso   | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card_<br>Design Da<br>sign Da<br>sign Da<br>sign Da<br>iesign Da   | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabii<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1 Carc                | d with<br>ated/F<br>ated/F<br>Card_C<br>Card_J<br>C Te<br>esign I<br>ociated<br>ciated<br>ciated<br>ciated<br>sociate<br>ation  | Item I<br>Produce<br>Prificat<br>C Tech<br>Chnica<br>Ingine<br>Data a<br>J Lists<br>Lists Ir<br>Lists<br>d Lists<br>Cross-   | Detail Sp<br>tion Mat<br>inical Data P<br>ering Dr<br>nd 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| Y<br>PCD<br>Y- data iten<br>higher dat.<br>guration Doce<br>Pecification<br>rix (RTVM)<br>ta Packageb<br>ta Packageb<br>ta Ckage List<br>awing Tree<br>ciated Lists<br>aly Drawing<br>con Drawing<br>ce Drawing<br>ce Drawing<br>ce Drawing  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br><br>ation -<br>1.1.2.41<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x          | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | A contract of the second secon |
|   | DI CD Type -> DI CD Type -> 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2.1 1.4.2   | FCD<br>Legend: na- no<br>FCD/ACD/PG<br>< /O d<br Example only,<br>(4.2.1.1 Card_C Real<br>1.4.2.:<br>1 Card_C Product D<br>1. Card_C Product D<br>1.1 Card_C Product D  | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card<br>Design Da<br>essign Da<br>lessign Da<br>lessign Da<br>lessign Da<br>ison Da<br>ison Da<br>cosign I<br>cosign Da  | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 C<br>nts Traceabil<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1 Carc<br>1.4             | d with<br>ated/F<br>ated/F<br>Card_C<br>Card_<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card<br>Card_C<br>Card_C<br>Card_C<br>Card_C<br>Card<br>Card_C<br>Card<br>Card_C<br>Card<br>Card_C<br>Card<br>Card_C<br>Card<br>Card<br>Card<br>Card<br>Card<br>Card<br>Card<br>Car  | Item I<br>rificat<br>C Tech<br>chnica<br>ngine<br>Data a<br>I Lists<br>Lists Ir<br>Lists d<br>Lists<br>Cross-<br>ipmen   | Detail Sp<br>tion Mat<br>nical Data<br>I Data P<br>ering Dr<br>nd Asso<br>Assemt<br>nstallation<br>Modifyin<br>s Interfa<br>Referen<br>nt Design   | Y<br>PCD<br>Y- data iten<br>higher dat.<br>guration Doce<br>Pecification<br>rrix (RTVM)<br>ta Package<br>ackage List<br>awing Tree<br>ciated Lists<br>bly Drawing<br>on Drawing<br>on Drawing<br>ce Drawing<br>ta Data (SIE)   | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited   | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | A contract of the second secon |
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|   | DI CD Type -><br>DI CD Type -><br>1.4.2.1<br>1.4.2.1.1<br>1.4.2.1.2<br>1.4.2.1.1 Card_C Product Des   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br>< /O di<br Example only,<br>4.2.1.1 Card_C Re<br>1.4.2.:<br>1 Card_C Product Do<br>1 Card_C Product Do<br>1 Card_C Product Do<br>1.1 Card_C Product Do  | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card<br>Design Da<br>lesign Da<br>lesign Da<br>lesign Da<br>lesign Da<br>lesign Da<br>lesign Da<br>lesign Da<br>lesign Card<br>(a C Spe<br>pecial Tc<br>1.4.2.1.1  | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 Can<br>t.4.2.1.1 Can<br>cy>><br>1.4.2.1.1 Can<br>cy>-<br>cy>-<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy 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 | produ<br>Produce<br>Produce<br>Prificat<br>C Tech<br>Chnica<br>Engine<br>Data a<br>d Lists<br>Lists In<br>Lists<br>d Lists<br>Cross-<br>ipmen<br>and A<br>ckagin   | Luct item<br>Luct item<br>Detail SI<br>tion Mat<br>inical Da<br>I Data P<br>ering Dr<br>nd Asso<br>Assemt<br>nstallatii<br>Modifyii<br>Si Interfa<br>Referen<br>It Design<br>ssociate<br>ig Instru   | Y<br>PCD<br>Y- data item<br>higher dat.<br>guration Docu<br>Pecification<br>rix (RTVM)<br>ackage List<br>ackage List<br>ackage List<br>oly Drawing<br>on Drawing<br>ng Drawing<br>ce Drawing<br>to Data (SIE)<br>d Lists (ST)<br>ctions (SPI)  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -<br>117741<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x  | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | x  |
|   | DI CD Type -><br>DI CD Type -><br>1.4.2.1<br>1.4.2.1.1<br>1.4.2.1.2<br>1.4.2.1.1 Card_C Product Des   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br><<1/O di<br>Example only,<br>4.2.1.1 Card_C Re<br>1.4.2.1<br>1 Card_C Product<br>Card_C Product Do<br>1 Card_C Product Do<br>1.3 Card_C Product Do<br>1.3 Card_C Product Do<br>1.4.2.1.1 Card_C S<br>1.4.2.1.1 Card_C S<br>1.4.2.1.1 Card_C S  | FCD<br>data ite<br>CD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1.1 Card_<br>Design Da<br>lesign Da<br>lesi | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 Carc<br>1.4.2.1.1 Carc<br>1.4.2.1.2 Carc<br>1.4.2.1.1 Carc<br>1.4.2                     | d with<br>ated/F<br>ard_C<br>Gard_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>card_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>card_<br>card_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>card_<br>d_C Te<br>card_<br>card_<br>d_C Te<br>card_<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d_C Te<br>card_<br>d<br>d<br>d_C Te<br>card<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d<br>d  | Produce<br>Produce<br>Produce<br>Prificat<br>C Tech<br>C Tech<br>Chnica<br>Singine<br>Data a<br>J Lists<br>Lists In<br>Lists<br>Lists In<br>Lists<br>Cross-<br>sipmen<br>and A<br>ckagin<br>cross D  | Luct item<br>Luct item<br>Detail Si<br>tion Mat<br>Inical Da<br>I Data P<br>ering Dr<br>Assem<br>Assemt<br>Modifyii<br>I Interfa<br>Referen<br>tt Design<br>ssociate<br>ssociate<br>ssociate<br>ssociate<br>ssociate   | Y<br>PCD<br>Y- data iten<br>higher dat.<br>yuration Doce<br>Pecification<br>trix (RTVM)<br>ta Package J<br>ackage List<br>awing Tree<br>ciated Lists<br>all package J<br>ackage List<br>adving Tree<br>ciated Lists<br>all package J<br>adving Tree<br>ciated Lists<br>adving Tree<br>ciated SIE<br>adving Tree<br>ciated Cists<br>(ST)<br>adving Tree<br>ciated Cists<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(ST)<br>(S | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -<br>TTT274T<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | P nex  |
|   | DI CD Type -><br>DI CD Type -><br>1.4.2.1<br>1.4.2.1.1<br>1.4.2.1.2<br>1.4.2.1.1 Card_C Product Des   | FCD<br>Legend: na- no<br>FCD/ACD/PC<br><<1/O di<br>Example only,<br>4.2.1.1 Card_C Re<br>1.4.2.1<br>1 Card_C Product<br>Card_C Product Do<br>1 Card_C Product Do<br>1.3 Card_C Product Do<br>1.3 Card_C Product Do<br>1.4.2.1.1 Card_C S<br>1.4.2.1.1 Card_C S<br>1.4.2.1.1 Card_C S  | FCD<br>data ite<br>cD: Func<br>cD: Func<br>ependen<br>IR/OC<br>mapping<br>quireme<br>1<br>1.1 Card_<br>Design D<br>esign Da<br>esign Da<br>lesign Da<br>lesign Da<br>ictated Li<br>ciated Li<br>ciated Li<br>ciated Li<br>ciated Li<br>ciated Li<br>ciated Cip<br>ciated Cip<br>cip<br>cip<br>cip<br>cip<br>cip<br>cip<br>cip<br>cip<br>cip<br>c   | Y<br>ACD<br>m associated<br>tional/Alloc:<br>cy>><br>is arbitrary<br>1.4.2.1.1 Can<br>t.4.2.1.1 Can<br>cy>><br>1.4.2.1.1 Can<br>cy>-<br>cy>-<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy<br>cy   | d with<br>ated/F<br>ated/F<br>ated/F<br>card_C<br>d_C Te<br>rd_C Te<br>esign l<br>ociated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated<br>ciated | Produce<br>Produce<br>Produce<br>Prifical<br>C Tech<br>Chinica<br>Singine<br>Data a<br>d Lists<br>Lists In<br>Lists<br>d Lists<br>Lists In<br>Lists<br>d Lists<br>singine<br>d Lists<br>Singine<br>Dists<br>Singine<br>d Lists<br>Singine<br>Dis | Detail Sr<br>tion Mat<br>Inical Da<br>Pering Dr<br>nd Asso<br>Assemt<br>Modifyli<br>Interfa<br>Referen<br>It Desigr<br>ssociate<br>g Instru<br>Descripti<br>Descripti  | Y<br>PCD<br>Y- data iten<br>higher dat.<br>guration Doce<br>Pecification<br>rrix (RTVM) ><br>ta Package b<br>ackage List<br>awing Tree<br>ciated Lists<br>oly Drawing<br>on Drawing<br>on Drawing<br>ce Drawing<br>ce Drawing<br>ce Drawing<br>to at (SIE)<br>d Lists (ST)<br>on (PCMPD)<br>tion (SSDD)  | n asso<br>a item<br>umeni<br>1.4.2.1.1 (<br>x | caited<br>ation -<br>1172741<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x x<br>x               | A Data    | PC<br>produce<br>a Item<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | x<br>1.4.2.1.1<br>x<br>x | PCD<br>em. 7<br>prop | PCD<br>^-Nav<br>riate<br>                        | na<br>PCL<br>igate u<br>for the<br>tripic v<br>tripic v | 2 FBL              | na<br>PCD<br>ards t<br>L, ABL<br>TTT<br>TTT<br>X | na<br>PCD<br>o the<br>, or PB<br>, or PB | x 1.4.2.1.1  |

Example only

# Conclusion

- A MDAP in the PD life cycle phases can be thought of as a data transformation effort that outputs a systems configuration documentation belonging to the System of Interest (SOI) technical baseline
- That output can be modeled in product and data domains to more accurately describe the work product (PINDIs) for the organization to process
  - ✓ DSMs are well suited to expose those work product and their dependencies

#### References

Policy <u>AFPD 20-1/63-1 Integrated Life Cycle Management, AFI 63-101/20-101 Integrated Life Cycle Management, AFMCI 63-1201 Integrated Life Cycle Systems Engineering and Technical Management, DoDI 5000.85 DAFI 63-151 Major Capability Acquisition, 5000.88 Engineering of Defense Systems
Guidance <u>2022 DoD Engineering of Defense Systems Guidebook, 2022 DoD Systems Engineering Guidebook, CDR Assessment Template</u>
Standards <u>MIL-STD-881 WBS for Defense Materiel Items, IEEE 15288.2-2014 Technical Reviews and Audits on Defense Programs</u>
Configuration Management <u>MIL-HDBK-61B Configuration Management Guidance, GEIA-HB-649A Configuration Management Standard Implementation Guide, EIA-649-1-2014 Configuration Management Guidance for Defense Contracts</u>
Ontology INCOSE-TP-2018-001-01.0 Integrated Data as a Foundation of Systems Engineering
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