



Host (on behalf of ASD):



ADS is the Premier Trade Organisation for companies in the UK Aerospace, Defence, Security and Space Sectors.

Ensuring LSAR to Tech Doc is a Love-Love Relationship!

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Agenda

- Introduction
- Why the disconnect?
- What can be done to build a better connection?
- Logistics Product Data – Acquisition to In-Service Baseline
- Equipment Life Cycle Data Integration
- An integrated solution offering a ‘Single Source of Truth’

Why the disconnect?

- No upfront quality
 - Data disconnected in the upfront ILS process between the LSA reports and Engineering drawings
 - Engineering should perform the first level of QA before released
 - Validating LPD data during an on-hands review will be too late
- Changing LSAR reports
 - Registered parts catalogs vs as purchased and stocked
- Engineering, LSA, Tech Pubs working in silos
 - Once an error is identified and verified, the data is then changed in the silo and not communicated
- No direct connection
 - Ensuring the content remains consistent throughout the entire ILS process is a MUST!

What can be done to build a better connection?

1. Quality
2. Teamwork
3. Automation

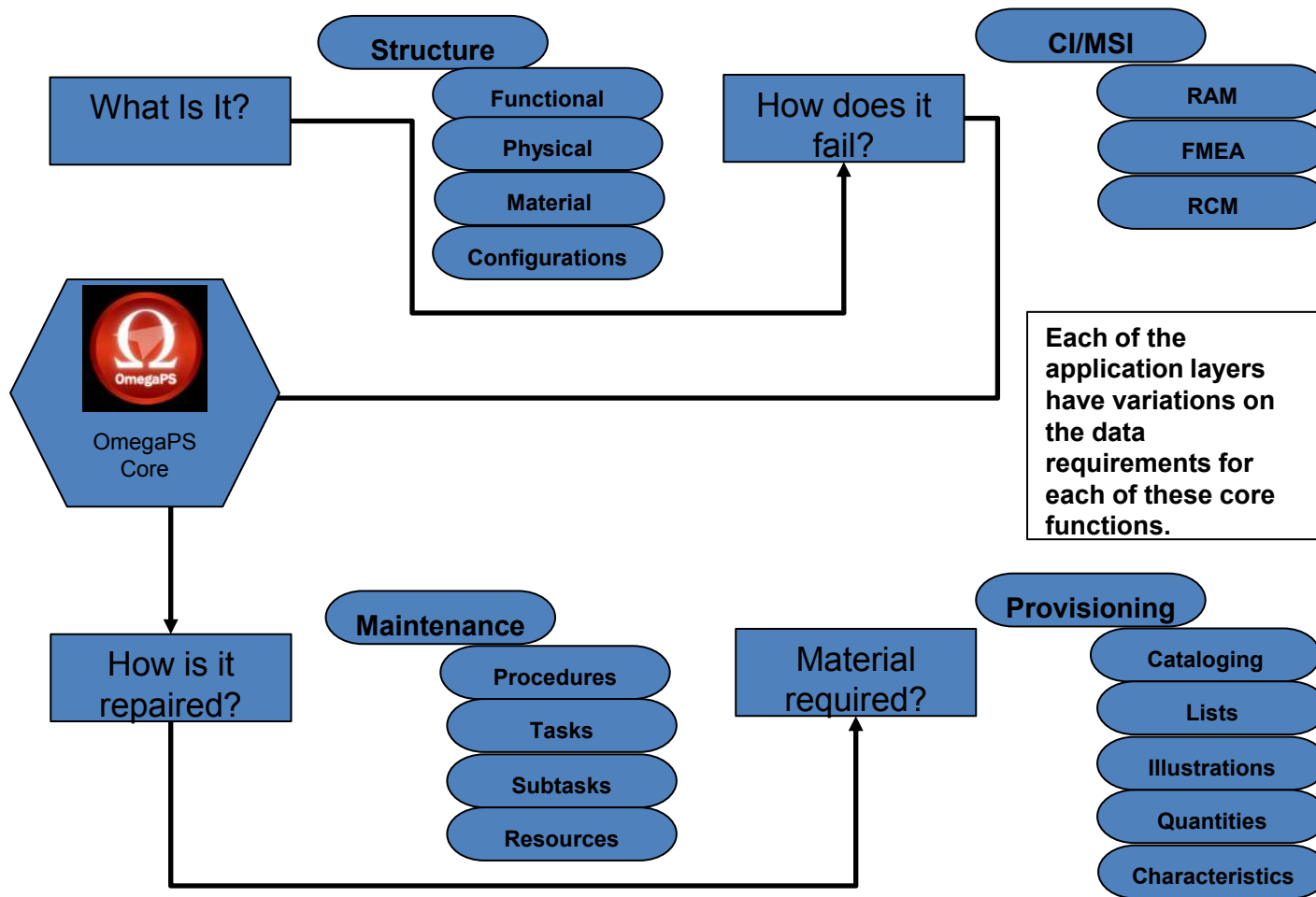
Pennant ILS Experience

Standards Based Solutions

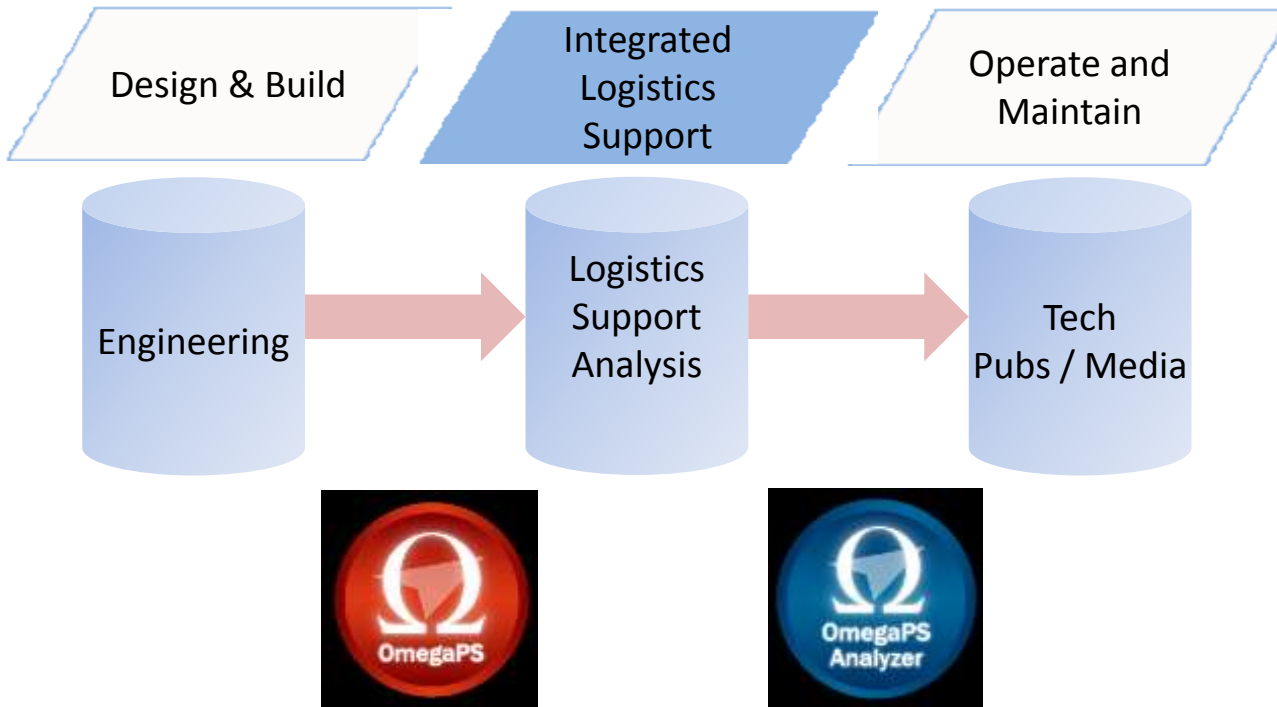
- ▶ **Canadian Department of National Defence**
 - SAP and Defence Solutions - 22 years
- ▶ **Australian Defence Organization**
 - LSA Tool integrated with Maintenance Management - over 25 years
- ▶ **Commercial Needs**
 - World-Wide Clients supporting the delivery of LSA data
- ▶ **Innovation/Evolving**
 - Robust Environment
 - Agile approach to meet client requirements



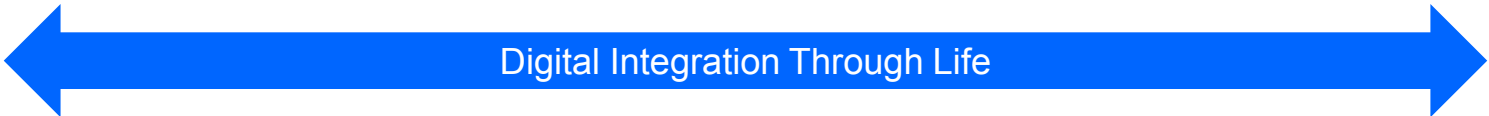
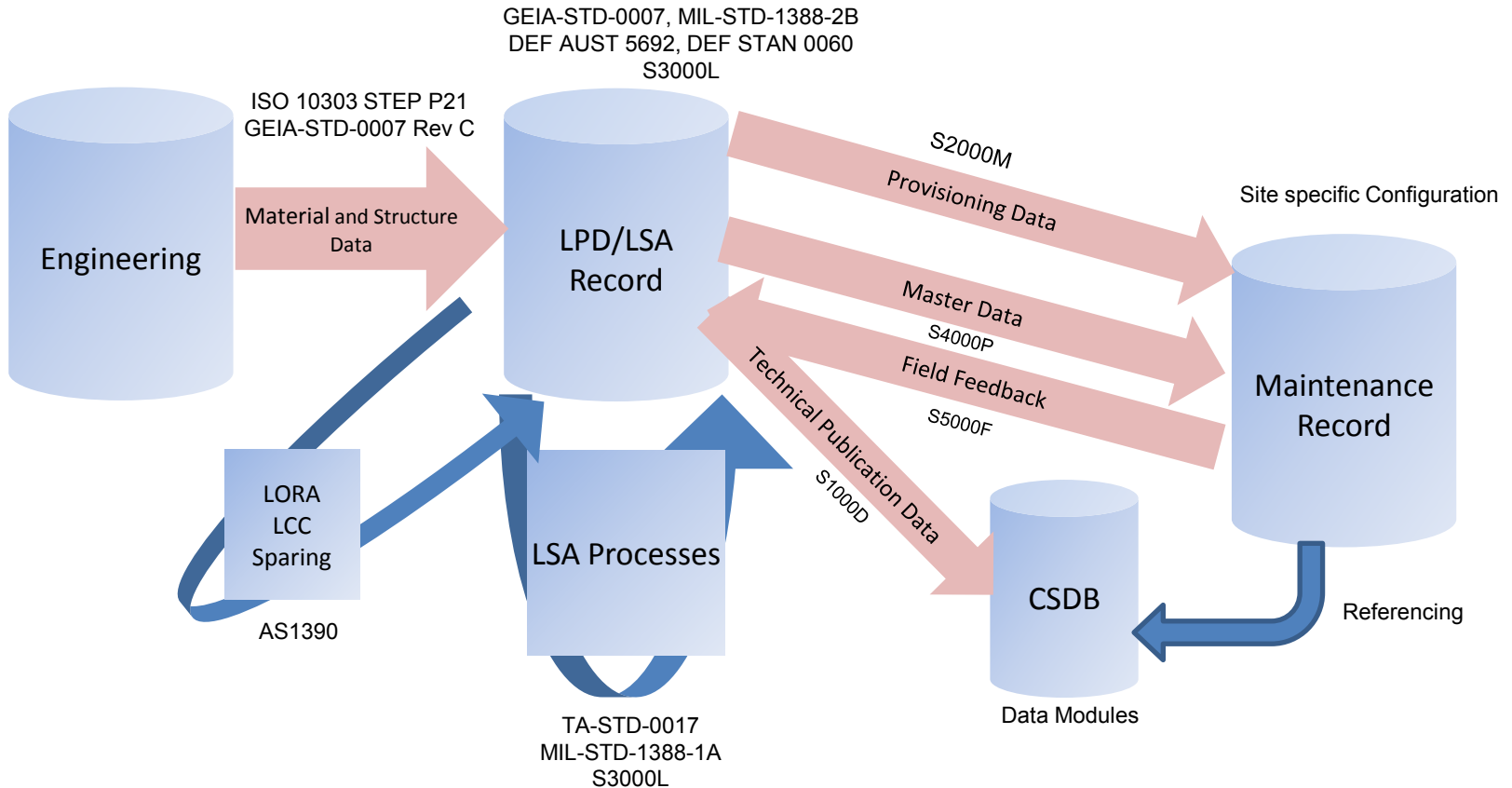
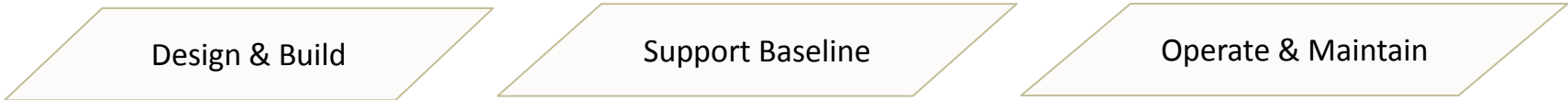
OmegaPS Core Functions



Equipment Lifecycle Data Integration



Digital Standardization



Data Module Content

- Maintenance definition

- Three tiered structure
 - Procedures
 - Tasks
 - Sub-Tasks
 - Detailed step level
 - Assigned resources

Produces

- Procedure Data Module Codes

- Illustrated Parts definition

- Illustrations
- Figure number
- Item number
- Quantity per assembly
- CAGE/Part #
- NSN

Produces

- IPD Data Module Code

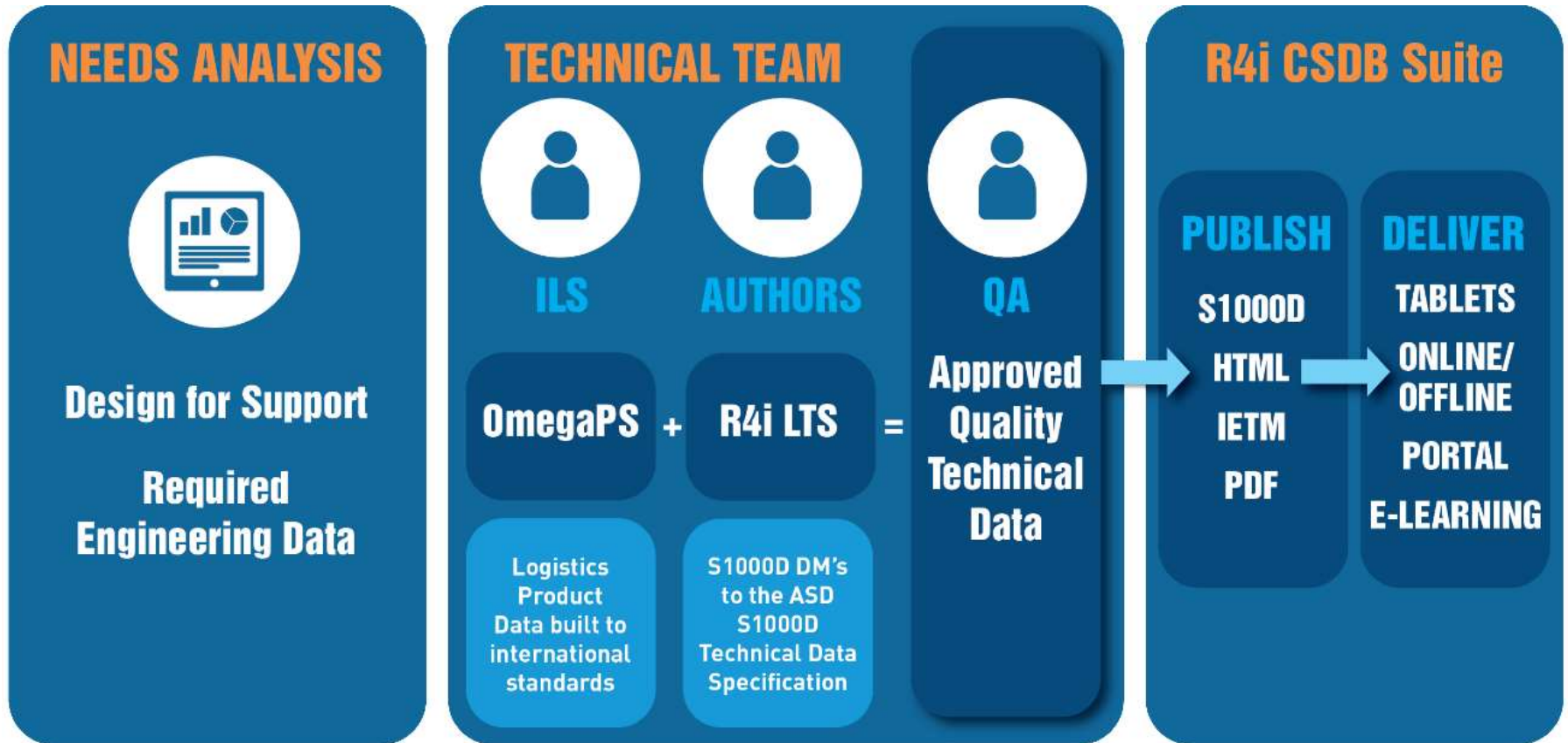
LSA/LPD to IETM/IETP Throughout the Life Cycle

- Extracting from one system and populating in the other is the usual response to the requirement to produce IETM/IETP information sets
 - The risk of in this type of approach is the possibility that the user would revert to just managing technical publications and not continue with the rigor of FMEA/RCM/MTA to be the input to IETM/IETP products
- A more robust solution would be to allow for a life cycle solution where LSA/LPD and Technical Publications remain linked.
 - In this manner the “Single Source of Truth” concept can be established such that the LSA/LPD baseline would continue to support the IETM/IETP content throughout the life cycle.

LSA/LPD to IETM/IETP Throughout the Life Cycle

- The continuing evolution of the LSA/LPD standards (0007/S3000L) allows for an evolving set of data to be mapped to S1000D
 - ICN attributes are used to store all illustrations
 - Digital File linkage to Structure, Material, Provisioning, Design Change, Maintenance, Facilities and Transportability
 - DMCs can be defined and stored
 - Circuit Breaker identification
 - Circuit Breaker Type indicator
 - Zone and Access attributes
 - Warnings/Cautions/Notes
- S4000M
 - Scheduled Maintenance Event attribution
 - Event trigger definition
 - Scheduled Maintenance Event Sampling attribution

Analysis Through to Technical Publications





Thank you

for your attention!

Questions?

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