

ABS Nautical Systems

Improving and Keeping Data Quality in a Fleet Management System

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Data Quality Defined



- *The state of completeness, validity, consistency, timeliness and accuracy that makes data appropriate for a specific use. -- Government of British Columbia*

Data Quality Benefits

- **Maintenance**

- *Consistent approach to performing maintenance routines throughout fleet*
- *Accurate picture of equipment type conditions and performance*
- *Centralized approach to maintenance*

- **Procurement**

- *Decreased procurement cycle time*
- *Ability to better leverage vendors for better contracts*

- **Operations**

- *Maintain consistent Vetting Observation Responses*
- *Trend Root Cause Analysis across the fleet*

Attainment

- High Data Quality requires resources
- Remove ability for “Type In” Line Items on Purchasing Documents
- Minimize non transactional data entry points
- Create a set of business rules for data entry

Increasing Quality in Existing DB

- Merge Redundant parts
- Archive Obsolete parts
- Standardize Maintenance Tasks
- Use IMPA or ISSA Consumable Parts List
- Routine Usage Audits of Application
- Use of Database Cleansing Tools

Data Quality and ShipDex

- Reduces resource load on database owner.
- Transfers some responsibility to the OEM
- Adjustments to OEM Maintenance Routine
- Limit of number of parts loaded into database

Data Quality. The Holy Grail?

- Data Quality is relative to the needs of the user.
- Data Quality is just one facet
- Ship Manager's business is to run ships efficiently not build the perfect parts or maintenance database.

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