

Asset Data Validation

EAM Lunch & Learn

07.30.2021

Lunch & Learn Purpose

- Discuss asset data validation within context of overall implementation effort
- Explain tools available to facilities and Line Departments for data validation
- Forum for Q&A

Topics Covered

- Asset Data Sources
- Process Overview: Data Collection & Asset Data Validation
- What is Data Validation?
- Validation Activities
- EAM Recommendations & Tools
- ARID Oasis (Validation Tool) Explanation
- Demo: Sample Asset Record Validation
- Q&A

Time Permitting or Future Lunch & Learn:

- Asset Data Attributes
 - Required Attributes, Additional Attributes, Engineering Attributes
- Asset Data Upload Templates

Context: Asset Data Sources

- Capital Project Delivery
- Agency Major Maintenance Program
- Immediate Repair Call-Ins
- Maintenance Service Call-Ins
- Regular Maintenance
- Tenant Asset Life Cycle Processes
- **Data Collection Projects**

Data Compilation & Validation



EAM Data Collection Initiative

What

Field verification, information collection, categorization and tagging of existing assets

Why

- Have all asset data ready for Phase 1a
- Harmonize asset data standards across the Authority for consistent and synchronized data capture and reporting
- Enable apples to apples comparison for maintenance and capital planning
- Enable mobile technology solutions

Process: Data Collection & Validation

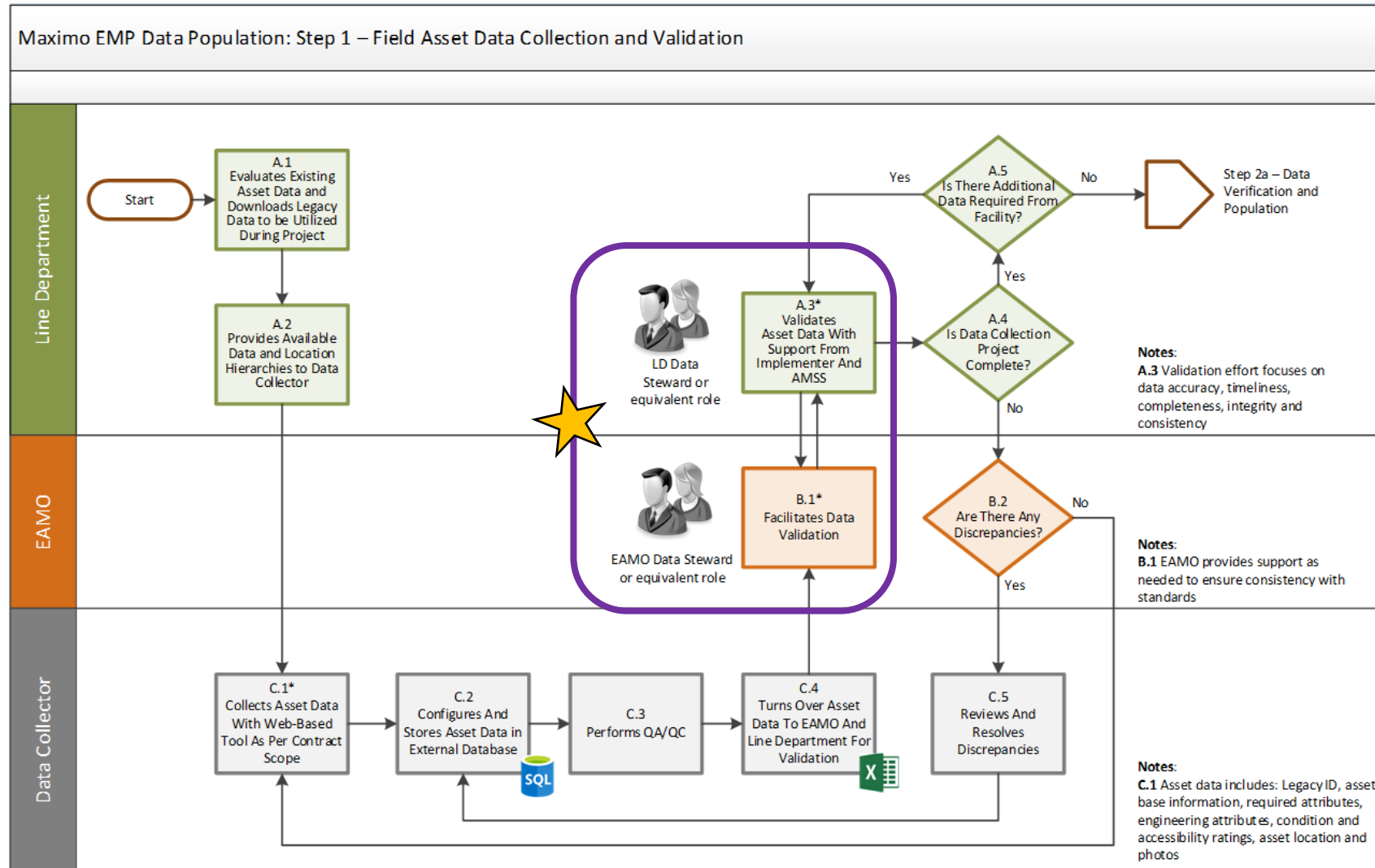


Figure 1 – Step 1 – Field *Asset Data Collection and Validation*

What is Data Validation?

The link between [Data Collection](#) and [EMP Upload](#)

- **Data validation:** checking accuracy and quality of source data before using, importing or otherwise processing it
- Goal = ensure data acceptability and usability
- Validation is not manually reviewing 100% of fields and records
- Data validation does occur periodically throughout the entire asset life cycle

Validation Activities

What are we checking in the asset data?

Activities are up to the discretion of the LD/Facility, but typically include:

- Spot checking asset records for accuracy
- Populating or reviewing data fields that require facility-specific knowledge
- Ensuring data is properly formatted in an upload template

EAMO Recommendations & Tools

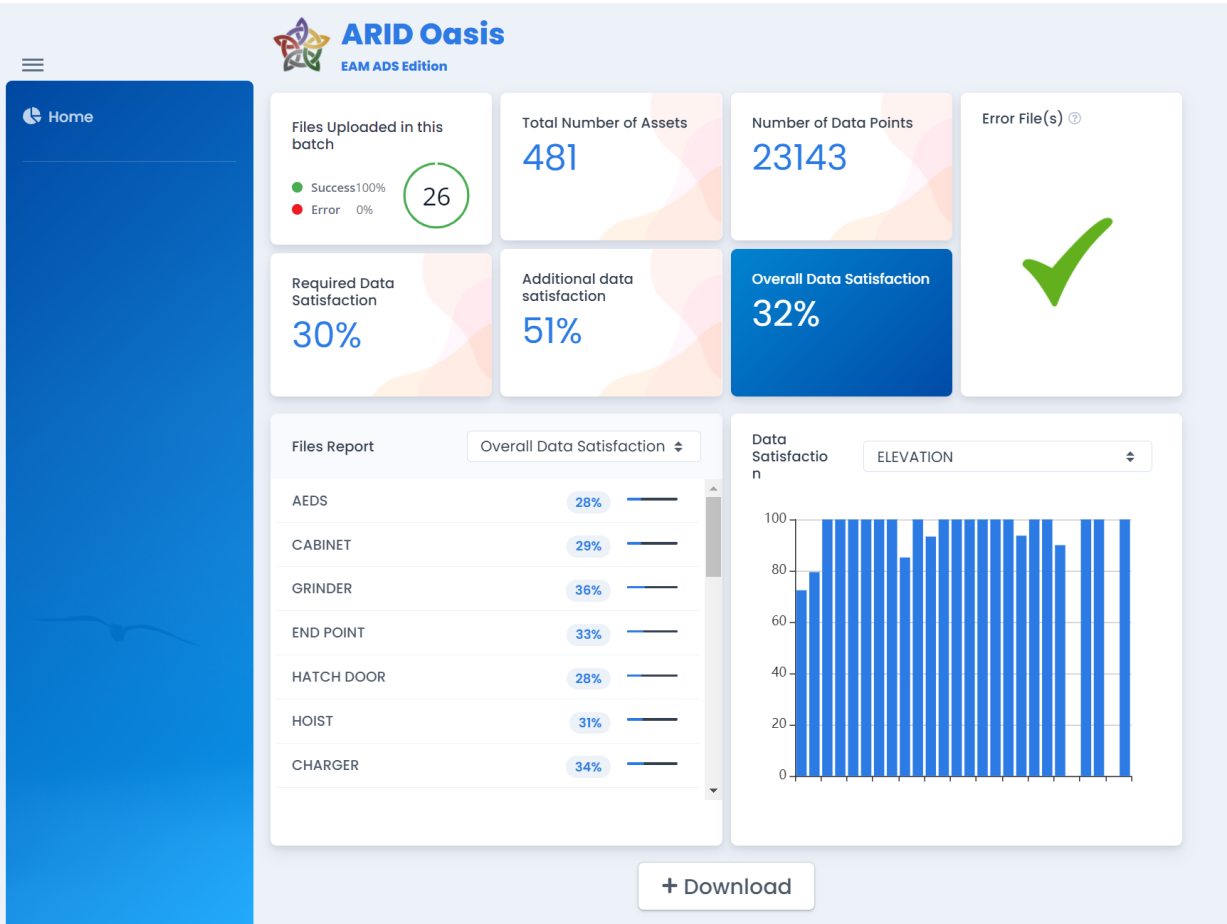
Develop Facility Validation Plan + Utilize ARID Validation Tool

1. Develop Facility Validation Plan
 - Utilize [validation plan template](#) (if desired)
 - Designate Asset Data Steward for initiative
 - Assign responsible personnel for various validation tasks
 - Develop timeline that complements implementation schedule
2. Complete Asset Data Validation Tasks
3. Run Asset Data through ARID Validation Tool
4. Review ARID Validation Report; Make Adjustments as Required
5. Turn Over Asset Data for Upload to EMP

ARID Validation Tool

Automated Health Checks by Data Field with User-Friendly Dashboard

Included Checks	Excluded Checks
Completeness	Accuracy
Uniqueness	
Validity	



ARID Validation Tool

Exportable Report for LD Review with Color Coded Assessment by Data Field

Example health checks for **ASSETTAG** field:

Check	Explanation
Completeness	Was the asset given a tag number?
Uniqueness	Is the tag number a duplicate of another tag in the data file?
Validity	Is the tag number 16 digits? Are the 16 digits numeric?

[illegible]

Demo: Sample Asset Record



Check Value for Jockey Pump at SIB

Q&A

Asset Data Validation



















Asset Data Attributes & Upload Templates

Time Permitting



Required & Additional Attributes

Same for all Assets


NAME	ACRONYM	DEFAULT VALUE	UNIT OF MEASURE	DATA TYPE	USAGE
ACCESSIBILITY	PA_ACCESSIBILITY		N/A	ALN	 Data Collection
ASSET	ASSETNUM		N/A	ALN	
ASSET CONDITION	PLUSTCONDITION		N/A	NUMERIC	 Data Collection
ASSET TAG	ASSETTAG		N/A	ALN	 Data Collection
ASSET TYPE	TYPE		N/A	ALN	
CERTIFICATION ON FILE?	PA_CERTONFILE		N/A	ALN	
CLASSIFICATION	HIERARCHYPATH		N/A	ALN	 Data Collection
COMPONENT CODE	PLUSTCOMP		N/A	ALN	 Data Collection
CRITICALITY	PRIORITY		N/A	NUMERIC	 Data Collection
DATE COMMISSIONED	PA_DATECOMM		N/A	ALN	 Data Collection
DATE MANUFACTURED	PA_DATESFG		N/A	ALN	 Data Collection
DATE PURCHASED	PA_DATEPUR		N/A	ALN	
DEPT/SVC	PA_ISDEPTSVC		N/A	ALN	
DESCRIPTION	DESCRIPTION		N/A	ALN	 Data Collection
DETAILS	DESCRIPTION_LONGDESCRIPTION		N/A	ALN	
DIRECTION	DIRECTION		N/A	ALN	
END MEASURE	ENDMEASURE		N/A	ALN	

“Required” has two meanings:

- (1) Required to create an asset record**
Additional and Engineering Attributes are not necessary to create an asset record in EMP, only Required Attributes.
- (2) Required by the Port Authority**
All Required, Additional, and Engineering Attributes are considered mandatory for collection by the PA, provided they are available.

Engineering Attributes

Technical Data based on Asset Class

ASSET TYPE CLASSIFICATION 












Export Excel Spreadsheet

Export Data Collection Template

CLASSIFICATION NAME

AIR HANDLING UNIT

ASSET SUB TYPE AND ATTRIBUTES TABLE

	AIR HANDLING UNIT, GENERAL
COMPRESSOR LOCK ROTOR AMPS (LRA)	
COMPRESSOR RATED LOAD AMPERAGE (RLA)	
DESIGN PRESSURE HIGH	
DESIGN PRESSURE LOW	
FAN MOTOR FULL LOAD AMPS (FLA)	
FAN MOTOR HORSE POWER	
HERTZ	
MAX FUSE AMPS	
MINIMUM CIRCUIT AMPACITY	
PHASE	
VOLTAGE	

Upload Template: Class-Based

Houses all asset data particular asset class: required, additional, **and** engineering attributes

Upload Template: Assets & Specs

Two templates total for all assets: (1) required & additional attributes and (2) engineering attributes

Thank You!

