Maximo to ALDEN ONE Interface Analysis

Source: MAXIMO
Target: ALDEN ONE
Middleware: Informatica, ETL

1. High Level Functionality

1. Maximo integrates Approved CUE Design information for Eversource pole install, transfer, removal and abandon work orders to AldenOne. Work Order CUE design is created, and Joint Point CU are added to CUE design along with attribute. CUE design is estimated, accepted and Work Order is approved.
2. Maximo Interface publishes the NS1 data into IFACE Table for Work Order that has Joint Pole CU that requires 3rd party attachment (Cable/Telco etc.,)
3. Informatica (middleware) read data from IFACE table and create a flat file in Alden One Interface format and transfer the file (FTP) through Biz Manager and then to AldenOne Server.
4. AldenOne process the data (NS1) and creates conversation reference number. This communication is sent to joint pole owners and attachment owners. NS2 information (tracking number, work log and pre-requisite status) is sent back to Maximo in file format through Biz Manager and ETL.
5. ETL inserts the data into Maximo IFACE table and IFACE consumer interface process data into Maximo.
6. Once Maximo receives NS2, it changes the status of Pre-requisite PRE544 to COMP. Once Maximo header work order status is changed to FCOMP, NS3 (work order details with FCOMP status) is integrated to AldenOne via ETL.
7. Alden One receives the FCOMP status for the work and then it sends back NS4 confirmation to Maximo. Maximo receives the NS4 confirmation and changes the work order Pre-requisite PRE659 to COMP. Work order continue its lifecycle.
8. Maximo Pre-requisite PRE544: Send Pole Info to AldenOne and PRE659: Complete Pole Status in AldenOne are auto populated in the work order under Pre-requisite tab.

2. Frequency/Schedule

ETL: Weekdays -Once a day, Mon,Tue,Wed,Thu,Fri; 8:00 PM EST

3. Realtime/Batch

It is Batch processed.

4. MIF Configurations in Maximo

a) Work order

Parameter / Key	Value
External System	WAM_ALDENONE_EX
Publish Channel	WAM_MXTOADN1_PC
Object Structure	WAM_MXTOADN1_OS
Objects	WORKORDER, WOSERVICEADDRESS, MULTIASSETLOCCI, PLUSDSTNDETAIL, WAMPLUSDESTATTR and LOCATIONS.
Automation script	PUBLISH.WAM_MXTOADN1_PC.EXTEXIT.OUT and WAM_OBJ_INTTRG_ALDENONE

- Above automation scripts are executed when the data is published into Maximo IFACE table and it does the below logic:

  - WAM_OBJ_INTTRG_ALDENONE: This script is used as a trigger point to export the records into Maximo IFACE table.
    - Object launch point (WAM_OBJ_WORKORDER_ALDENONE): If the Work order is not parent and not task and status of the WO is modified and the status is in APPR/RDISP/WTBS and if the pre-requisite is not PRE544 and sub-work type not start with 'TPMR' and check if work order does not exist in Maximo IFACE table and then export the WO by calling the publish channel.
    - Attribute launch point (WAM_ATTR_STATUS_ALDENONE): If the Work order is not parent and not task and status of the WO is modified and the status is FCOMP and if the pre-requisite is not PRE544 and sub-work type not start with 'TPMR' then export the WO by calling the publish channel.
  - PUBLISH.WAM_MXTOADN1_PC.EXTEXIT.OUT: This script is used to set the action in the outbound message.
    - If the WO status is APPR then set the action as Add.
    - If the WO status is FCOMP then set the action as Replace.

Exclude/Include fields for object structure WAM_MXTOADN1_OS



MX_TO_ALDENONE
_OBJ_EXCLUDE_INCL

5.Table Names

Table	Value
Maximo Core table	WORKORDER, WOSERVICEADDRESS, MULTIASSETLOCCI, PLUSDSTNDETAIL, WAMPLUSDESTATTR and LOCATIONS.
Maximo IFACE table	WAM_MXWOTOADN1_IFACE

6. Maximo Processing rules

WORKORDER

- Set Owner display name based on the relationship OWNERPERSON
- Set the IFACE timestamp as curren system date
- Skip Task workorders
- Set sub work type desc based on the relationship WAMSUBWRKTYPE_ALN
- Set Tracking number based on the relationship WAMALDENONEPREREQ
- Skip work order if entity is not equals to 11 or 1T

PLUSDSTNDETAIL

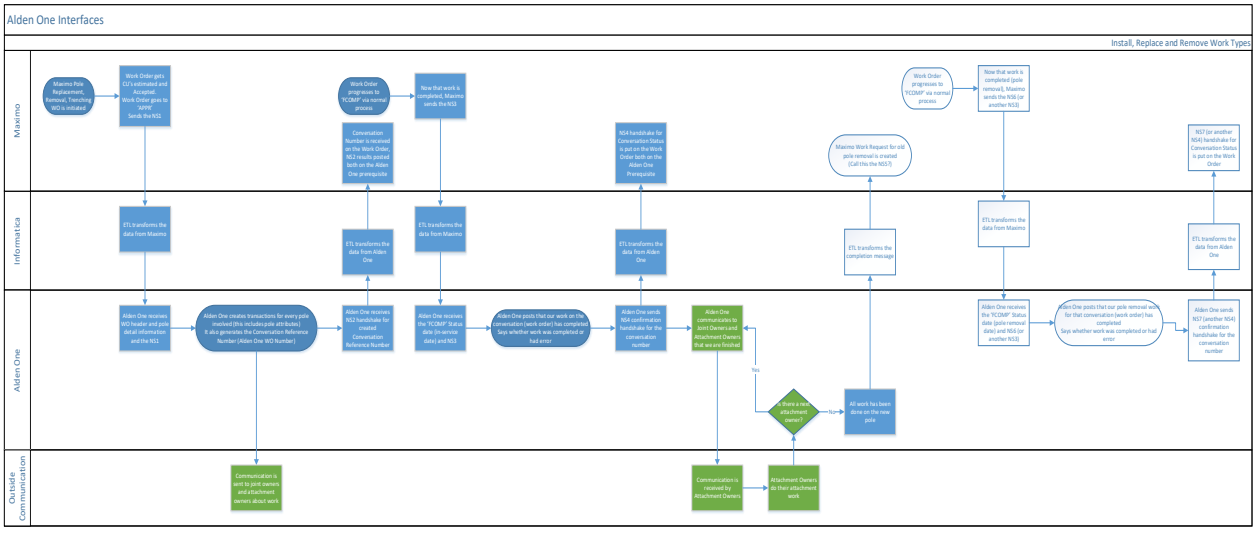
- Set Location from Station based on the relationship PLUSDSTATION
- Set CompanyID from Location based on the relationship PLUSDSTATION

7. Volume of records:

- No. of records
    - Work order: ~22 records/day and ~679 records/month

8. Flow diagram





9. Appendix

- **Recent deployed fix in Prod** (SCTASK0402999): Updates from Maximo to Alden One system are triggered when status of the work order is changed to APPR and FCOMP. But from past some time updates from Maximo to Alden one was not going in APPR status when Workorder status is progressed continuously through workflow. Incident no: INC0702843.
    - **Applied Fix:** Changed code in script WAM_OBJ_INTTRG_ALDENONE to send eligible workorders to Alden One when status of workorder is changed to APPR.

ALDEN ONE to MAXIMO Interface Analysis

Source: ALDEN ONE
Target: MAXIMO
Middleware: Informatica, ETL

1. High Level Functionality

1. Alden One manages 3rd Party Attachments notification, and work coordination processes. Maximo is the system of record for all Work and Asset Management, including work on any of the Poles that are managed by Alden One.
2. Maximo WAM knows details about the work being done on the fully or joint owned pole that Alden One requires to operate, and Alden One knows details about the coordination of that work with joint owners that Maximo requires since it is related to the work.

3. The data included in the interface going from Alden One to Maximo includes the Conversation Reference Number from Alden One as well as the Status from the Handshakes NS2 and NS4, whether or not it was completed or had an error.

2. Frequency/Schedule

ETL: Weekdays -Once a day , Mon,Tue,Wed,Thu,Fri; 10:00 PM EST

3. Realtime/Batch

It is Batch processed.

4. MIF Configurations in Maximo

b) Work order

Parameter / Key	Value
External System	WAM_ALDENONE_EX
Enterprise Service	WAM_ADN1TOMX_ES
Object Structure	WAM_ADN1TOMX_OS
Objects	WORKORDER, WOACTIVITY and WORKLOG.
Automation script	SYNC.WAM_ADN1TOMX_ES.USEREXIT.IN.BEFORE

- Above automation script is executed when the data is processed into Maximo and it does the below logic:

  - Based on the parent work order and pre-requisite received from Alden one finds the work order activity and set the status based on the incoming status against the Pre-requisite.
  - Fetch the Task WO and Site id based on the Parent work order number and Pre-requisite and set it in the incoming message.
  - Set the Recordkey and Site id for worklog as parent workorder and parent Site id.

Exclude/Include fields for object structure WAM_ADN1TOMX_OS



ALDENONE_TO_MX
_OBJ_EXCLUDE_INCL

5.Table Names

Table	Value

Maximo Core table	WORKORDER, WOACTIVITY and WORKLOG.
Maximo IFACE table	WAM_ADN1TOMXWO_IFACE

6. Maximo Processing rules

- No processing rules

7. Volume of records:

- No. of records
  - Work order: ~12 records/day and ~385 records/month

8. Flow diagram



