Supplier Device Asset by Month Report

SUMMARY

This report shows for each asset, for every month and for every activity:

- The total reported for the month
- The Raw data contributing to the month including its:
  - Supplier
  - Measurement Device
  - Pedigree
  - From and To date of the original record

BACKGROUND – DATA PROCESSING

Data coming into Eden Suite is prorated to a daily value. For each day, Eden Suite checks to see if data is available from multiple data sources or different usage types (actuals or estimates) and then prioritises the data based on the best available pedigree of data for that day. This means data for one month could come from multiple records if they span multiple months e.g. 15 June 2015 to 15 July 2015, or it could come from multiple pedigrees of data if there is "actual" data for part of the month and estimated data for another part.

DATA JOURNEY

Data is transformed in Eden Suite through a number of steps:

1. Usage data begins as Raw Activity Data (RAD). Raw data has a date range, a measurement device, and a pedigree. If it has a status of Accepted, the raw data will be prorated and combined into Periodic Raw Activity Data.
2. Periodic Raw Activity Data (PRAD) (or Pedigreed data) is a monthly pedigreed record combining data from one or more measurement devices linked to the same asset. One monthly PRAD might be made up of 2 RADs with the same pedigree if one RAD is 15 June 2015 to 15 July 2015 and the other is 15 July 2015 to 15 August 2015 then the July PRAD will be made up of these 2 records If the Pedigreed data has a high enough pedigree priority it may be combined into Periodic Activity Data.
3. Periodic Activity Data (PAD) (or Accepted data) records are the final monthly records for an asset and an activity after pedigree priorities are applied. At this stage, aggregation and apportioning (if required) is also performed based on asset hierarchy structures.
4. Finally, Periodic Activity Data records are combined to create Activity Data (AD) records that are used in high level reporting.

ⓘ This report returns the monthly asset/activity records for quantity and cost that combine to give the monthly total reported value (by pedigree for Actual vs Estimated analysis).

ⓘ This report includes Periodic Raw Activity Data (PRAD) (Pedigreed Data).
PRAD details are for those records that have contributed some or all of their value to the finalised reportable data, based on pedigree and date ranges.

ⓘ This report only includes "direct" Periodic Activity Data (PAD). No aggregated or apportioned PAD records are included as they do not have linked PRAD records where pedigree information is captured and required in this report.

The table below shows how usage data is transformed in Eden Suite and is then interpreted in the Actuals Vs Estimates report.

	Raw Activity Data (RAD)	Periodic Raw Activity Data (PRAD)	Periodic Activity Data (PAD)	Activity Data (AD)
Asset	✓	✓	✓	✓
Activity	✓	✓	✓	✓
Pedigree	✓	✓	✗	✗
Measurement Device	✓	✗	✗	✗
Date Range	✓	✗	✗	✗
Month	✗	✓	✓	✓
Derivation e.g. direct, aggregated, apportioned	✗	✗	✓	✗
Comments	Data may be Pending, Accepted or Rejected	Only Accepted data is considered here. Aggregating and Apportioning is not in effect here. Raw Activity Data is pro-rated and monthly values are determined. Device data is now grouped by its linked asset.	Aggregated and Apportioned data is calculated. Pedigree priorities have been applied to Periodic Raw Activity Data.	Data represents the pedigree-preferred combined direct / aggregated / apportioned data for an asset for a month.

The following fields are included in the Supplier Device Asset by Month report.

Report Field	Description
Activity Name	Name of the activity
Activity Unit Code	Configured unit of the activity e.g kWh for electricity, kl for water
Asset Name	Name of the asset the data is received against
Measurement Device Name	Name of the measurement device the data is received against
ID (Raw Activity Data)	Identifier for the raw data record
Month From Date	First day of the month of the Raw Activity Data (RAD)
Quantity Code	The code for the quantity e.g. Qty- Electricity
From Date (Raw Data)	The actual from date of the raw data record contributing to the monthly RAD
To Date (Raw Data)	The actual to date of the raw data record contributing to the monthly RAD
Supplier	The Supplier recorded on the raw data record
Description (Raw Data)	The description (if any) recorded on the raw data record
Value (Raw Data)	The actual value for the quantity of the raw data record contributing to the monthly RAD
Used Value (Raw Data)	How much of the value of the raw data is used in the monthly RAD
Pedigree Data Source	The Data Source and Usage Type together define the pedigree of the data. Data Source values may include: • EDMS Generated • Supplier Invoice • Supplier Electronic • Sub Metered - Electronic • Manual Reading • Entity Records • User Generated Waste Audit
Pedigree Usage Type	The Data Source and Usage Type together define the pedigree of the data. Usage Type values are: • Actual Estimated
Pedigree Priority	How much of the Pedigreed Data/PRAD value is used by the

	Accepted Data/PAD.
	As PRAD values may exist for multiple pedigrees for the same asset/activity/month, for varying underlying date ranges, it is possible than while some PRAD records are not used at all, some are used completely, whereas others are only used in part (to fill a gap where there is no higher pedigreed data).
	SUM this column if you have not applied a filter in the "Filter (to sum Value All Pedigrees)" column
Pedigree Override?	If a user has chosen to override the pedigree prioritisation for this month/asset/activity then a "Yes" will appear in this column.
Value (This Pedigree)	The total value for all records in this month that have the same pedigree
Days Available (This Pedigree)	The total days available for all records in this month that have the same pedigree
Days Used (This Pedigree)	The number of days of data used for all records in this month that have the same pedigree
Value (All Pedigrees)	The value used for all records in this month that have the same pedigree
Filter (to sum Value All Pedigrees)	A column that you can filter on "*" so that you can sum the previous column – a "*" is allocated to the first row if there are multiple pedigrees contributing to a month

The green fields are Raw Activity Data / RAD / Accepted Data related fields.

The blue fields are Periodic Raw Activity Data / PRAD / Pedigreed Data related fields.