



Actuals Vs Estimates report

SUMMARY

This report shows for each asset, for every month and for every activity how much data being reported is from different pedigrees including how much is an actual and how much is an estimate for both cost and quantity.

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.
- ① 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).
 - ① 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.
 - ① 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 Actuals Vs Estimates report.

Report Field	Description
Activity Name	Name of the periodic activity data (PAD) activity
Activity Unit Code	Configured unit of the periodic activity data (PAD) activity
Asset Name	Name of the periodic activity data (PAD) asset
Asset Type Name	Configured asset type of the periodic activity data (PAD) asset
Asset Hierarchy Name	Name of the asset hierarchy the periodic activity data (PAD) asset belonged to in the data month
Organisation Name(s)	The name of any organisation(s) the PAD asset has a relationship with in the PAD month.
Organisation Hierarchy Name(s) (For "Actuals Vs Estimates (with Org Hierarchy) version ONLY)	<p>The name of any organisation hierarchy(s) that have a relationship in the PAD month with ANY asset in the PAD asset's hierarchy.</p> <p>This field can be used to:</p> <ul style="list-style-type: none"> Determine if data from the asset hierarchy is linked to any organisation hierarchy, even if not directly. For example, the asset is not in a relationship for that month (organisation name is blank), but its data may be aggregated up to a parent asset that does have a relationship. When an asset has relationships with more than one organisation hierarchy, this field may be used to filter data for different organisation hierarchies in different months.
Month From Date	First day of the month of the periodic activity data (PAD)
Quantity/Cost Code	The field code of the Periodic Activity Data (PAD) e.g. Quantity, Qty-Electricity, Qty-Green Power.
Value (All Pedigrees)	The Value of all pedigrees combined for this activity, month and asset (there may be multiple pedigrees for the month)
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
Pedigree Data Source	<p>The Data Source and Usage Type together define the pedigree of the data.</p> <p>Data Source values may include:</p> <ul style="list-style-type: none"> EDMS Generated Supplier Invoice Supplier Electronic Sub Metered - Electronic Manual Reading Entity Records User Generated

	<ul style="list-style-type: none"> Waste Audit
Pedigree Usage Type	<p>The Data Source and Usage Type together define the pedigree of the data.</p> <p>Usage Type values are:</p> <ul style="list-style-type: none"> Actual Estimated
Priority	<p>Priority is the importance assigned to the pedigree.</p> <p>Priorities may be assigned in different combinations for each activity.</p> <p>The smaller the number the more important the pedigree. A pedigree of 0 is considered the highest pedigree of data.</p>
Value (This Pedigree)	The value available for this activity and month for this pedigree ONLY
Used Value (This Pedigree)	<p>How much of the Pedigreed Data/PRAD value is used by the Accepted Data/PAD.</p> <p>As PRAD values may exist for multiple pedigrees for the same asset/activity/month, for varying underlying date ranges, it is possible that 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).</p> <p>SUM this column if you have not applied a filter in the "Filter (to sum Value All Pedigrees)" column</p>
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.

The green fields are Periodic Activity Data / PAD / Accepted Data related fields.

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