

# Asset Management Data Quality Report

## Overall Asset Management Score Calculation



# Calculation of the Overall “Score” - Overview

Each RCA Asset Management Data Quality Report includes an overall “Score”, like shown to the right.



The purpose of the overall “Score” is to indicate the quality of available data in the asset system to support investment and decision-making processes, weighted by a level of importance.

The overall “Score” result is out of a maximum of 100. It is derived from the RCA’s individual results for each metric that are applicable, and reported, on their data.

It is a weighted score based on the level of importance of each metric. High importance metrics contribute the greatest, then moderate and low contribute the least.

A score of 100 is achieved by having all metric results at the expected standard level.

# Calculation of the Overall “Score” - Detail

A weighted value is given to each metric based on the level of importance and grade achieved using the matrix in table 1 below.

Table 1

Importance	Grade 1	Grade 2	Grade 3
High	10	5	1
Moderate	5	3	1
Low	3	2	1

These values are then totalled and divided by the maximum achievable (i.e. Grade 1 for all metrics).

Metrics that are subsets of the same indicator (e.g. CWAY2a and CWAY2b) each contribute an equal proportion of the maximum achievable based on their individual result grade. For example two subset metrics of a high importance indicator each contribute a maximum of 5 ( $10 / 2$ ).

Metrics that are not applicable to a specific network (i.e. report a result of NA) are excluded from the overall “Score” calculation

# Calculation of the Overall “Score” - Example

Metric	Importance	Achieved Grade	Value (from Table 1)	Max Achievable Value
Metric 1	High	2	5	10
Metric 2	Low	3	1	3
Metric 3a*	High	1	$10 / 2 = 5$	$10 / 2 = 5$
Metric 3b*	High	3	$1 / 2 = 0.5$	$10 / 2 = 5$
Metric 4	Moderate	1	5	5
Metric 5	Low	2	2	3
<b>Total</b>			<b>18.5</b>	<b>31</b>

\* Metric 3a and 3b are subsets of the same indicator - the maximum achievable value is halved between the subset metrics

$$\begin{aligned}\text{Score} &= (18.5 / 31) * 100 \\ &= 59.7 \\ &= 60 \text{ (rounded to nearest whole number)}\end{aligned}$$