



## Ops Supply Chain Performance

# Oracle Fusion Data Standard for CPF



**Document Control**

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#### Approvals

Name	Title	Date of Issue	Version
Chris Bethel, Angelica Rice	Team Leader - Ops Supply Chain Performance	01/04/2018	201804

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## Contents

1. Purpose .....	5
<b>APPLICABILITY OF ORACLE FUSION DATA STANDARD METRICS BY CONTRACT TYPE .....</b>	<b>6</b>
2. Data Dictionary Overview .....	7
3. Monthly Data File – Structure and Naming Convention.....	7
4. Oracle Fusion Data Standard - Data Dictionary .....	8
5. Oracle Fusion Data Standard – Reference Constraints.....	14
6. Oracle Fusion Data Standard – Rebaselining Data Quality .....	17
<b>Glossary .....</b>	<b>19</b>

## 1. PURPOSE

The purpose of the Oracle Fusion Data Standard for CPF is to incorporate the necessary data to enable Sustainability Measure 4.1a (per million spend part of this metric), Time Measure 6.1a, and Cost Measure 7.1a.

The Oracle Fusion data standard, also known as the WD6 report, is provided by Duncan Edmonds to the Ops Supply Chain Performance Team on a monthly basis.

The Oracle Fusion data standard defines the data set that needs to be collected and reported for each Scheme in Oracle Fusion in order to automatically calculate the metrics under the Sustainability, Time and Cost themes.

The remainder of this data standard describes the 'Operational Data' that must be reported into Oracle Fusion on a monthly basis for output to the WD6 report.

The metrics defined in CPF that use Oracle Fusion are:

- 4.1a) Measure carbon emissions (per million spend part of this metric)
- 6.1a) Variance in construction duration from baseline
- 7.1a) Oracle Fusion alignment with budget profile in terms of a cumulative indicator (YTD).

**APPLICABILITY OF ORACLE FUSION DATA STANDARD METRICS BY CONTRACT TYPE**

The following table defines the metrics that use Oracle Fusion and that are applicable to each main contract type:

Theme	Measure	Metric Ref	Metric Title	ASC	RTMC	PAVEMENTS
4. Sustainability	4.1 Manage environmental sustainability	4.1a	Measure carbon emissions	✓		Yet to be agreed
6. Time	6.1a Forecast timescales accurately (including change management)	6.1a	Variance in construction duration from baseline	✓		
7. Cost	7.1 Manage schemes to budget	7.1a	Oracle Fusion alignment with budget profile in terms of a cumulative indicator (YTD)	✓		

## 2. DATA DICTIONARY OVERVIEW

The Oracle Fusion Data Standard below is in 'Data Dictionary' format.

Each data column that needs to be supplied on a monthly basis is described as an individual row containing the following information:

Information	Description
<b>Name</b>	This is the column name required in the monthly data file
<b>Data type</b>	Describes the data type each column should be presented as within the monthly data file
<b>Mandatory</b>	When this is Y then the column <u>must</u> be populated in accordance with the described rules. If it is blank then the data load will not fail, however you should follow the guidance in relation to how to populate the field – in some cases the field should be left blank, whilst in others a default value is defined.
<b>Comment</b>	Describes any rules pertaining to population of the column.

## 3. MONTHLY DATA FILE – STRUCTURE AND NAMING CONVENTION

- The monthly data file should be produced as a number of rows (one per PIN/Scheme) within an Excel Spreadsheet. Where any duplicate PIN/Scheme exists in the data file, these should be removed and flagged as error rows.
- Detailed Design Start Planned should not be NULL, any schemes that are NULL should be excluded
- It should be noted that some Scheme exclusions maybe approved. In such cases these will be excluded by the Ops Supply Chain Performance Team using the Scheme Exclusion functionality.
- If a scheme has been included in a forecast and then pulled by Highways England this should be added to the Scheme Exclusions list
- Please note the columns Construction Start Baseline and Construction End Baseline, when populated with a date value, indicate that the Scheme has reached Milestone 4 and the Construction milestone dates have been confirmed.

**4. ORACLE FUSION DATA STANDARD - DATA DICTIONARY**

Name	Data Type	Mandatory	Comment
DATA_KEY_ID	Number (2)	Y	This is derived from the referential constraint on Cost_Centre to REF_AREA_SfM. Format 02 or 08.
REPORTING_PERIOD	Number (6)	Y	Must be of format YYYYMM
PIN	Text (10)	Y	E.g. 501376, D624236 – Must be spelled exactly as in Oracle Fusion.
SCHEME_NAME	Text (250)	Y	E.g. RSA4 – Accessibility Schemes – Must be spelt exactly as in Oracle Fusion
SR_CATEGORY	Text (50)	Y	E.g. Maintenance. Must be a valid SR Category as defined in Oracle Fusion.
MPML	Text (50)	Y	E.g. Current Maintenance. Must be a valid MPML as defined in Oracle Fusion.
SUB_MPML	Text (100)	Y	E.g. Routine Maintenance. Must be a valid Sub MPML as defined in Oracle Fusion.
DIVISION	Text (100)	Y	E.g. North West. Must be a valid Division as defined in Oracle Fusion.
COST_CENTRE	Text (100)	Y	E.g. North West MAC 10. Must be a valid Cost Centre as defined in Oracle Fusion.
CAP_RES	Text (10)	Y	Constrained value with either CAPITAL or RESOURCE.



Name	Data Type	Mandatory	Comment
APR	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
MAY	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
JUN	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
JUL	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
AUG	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
SEP	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
OCT	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
NOV	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
DEC	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value

Name	Data Type	Mandatory	Comment
JAN	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
FEB	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
MAR	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
FYE	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
YTD_BUDGET	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
VARIANCE_FROM_YTD_BUDGET	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
BUDGET	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
BUDGET_SET	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value
VARIANCE_FROM_TOTAL_BUDGET	Decimal	N	Must be formatted to two decimal places, bracketed figures are defined as being a negative value

Name	Data Type	Mandatory	Comment
DETAILED_DESIGN_START_PLANNED	Date	Conditional	Formatted as dd/mm/yyyy  Conditional: only mandatory when the date existed in the previous month's data, if it did it must exist in this month's data too.
DETAILED_DESIGN_START_ACTUAL	Date	N	Formatted as dd/mm/yyyy
DETAILED_DESIGN_END_PLANNED	Date	N	Formatted as dd/mm/yyyy  Conditional: only mandatory when the date existed in the previous month's data, if it did it must exist in this month's data too.
DETAILED_DESIGN_END_ACTUAL	Date	N	Formatted as dd/mm/yyyy
CONSTRUCTION_START_PLANNED	Date	N	Formatted as dd/mm/yyyy  Conditional: only mandatory when the date existed in the previous month's data, if it did it must exist in this month's data too.
CONSTRUCTION_START_ACTUAL	Date	N	Formatted as dd/mm/yyyy
CONSTRUCTION_START_BASELINE	Date	N	Formatted as dd/mm/yyyy  Population indicates a scheme reaching milestone 4
CONSTRUCTION_END_BASELINE	Date	N	Formatted as dd/mm/yyyy  Population indicates a scheme reaching milestone 4

Name	Data Type	Mandatory	Comment
CONSTRUCTION_END_PLANNED	Date	N	Formatted as dd/mm/yyyy  Conditional: only mandatory when the date existed in the previous month's data, if it did it must exist in this month's data too.
CONSTRUCTION_END_ACTUAL	Date	N	Formatted as dd/mm/yyyy
MANAGING_AGENT	Text (100)	Y	E.g. WS Atkins. Must be a valid Managing Agent as defined in Oracle Fusion.
PDS	Integer	N	1 or NULL
OCT_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
NOV_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
DEC_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
JAN_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
FEB_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.

Name	Data Type	Mandatory	Comment
MAR_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
APR_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
MAY_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
JUN_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
JUL_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
AUG_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.
SEP_REV_BUDGET	Decimal	N	Must be formatted to two decimal places.

Rev Budget columns relate to 7.1a) Oracle Fusion alignment with budget profile in terms of a cumulative indicator (YTD). These columns will reflect the budget profile of the reporting period being currently scored on.

**5. ORACLE FUSION DATA STANDARD – REFERENCE CONSTRAINTS**

The following tables must be created in accordance with reference data constraints for Oracle Fusion. The constrained column is indicated. (Data provided separately)

**DYR\_AREA**

Name	Data Type	Mandatory	Comment
DATA_KEY_ID	Number (2)	Y	Used as a derived column in Oracle Fusion
DATA_KEY_ID_DESCRIPTION	Text (6)	Y	E.g. AREA 6
COST_CENTRE	Text (50)	Y	Referenced value from Oracle Fusion
Z_DATE_FROM	Date time	Y	Starting period for applicable value
Z_DATE_TO	Date time	Y	Ending period for applicable value

**DYR\_DIVISION**

Name	Data Type	Mandatory	Comment
ID	Int (PK)	Y	
DIVISION	Text (100)	Y	E.g. North West
DIVISION_DESCRIPTION	Text (100)	Y	E.g. North West
Z_DATE_FROM	Date time	Y	Starting period for applicable value
Z_DATE_TO	Date time	Y	Ending period for applicable value

**DYR\_COST\_CENTRE**

Name	Data Type	Mandatory	Comment
ID	Int (PK)	Y	
COST_CENTRE	Text (50)	Y	Referenced value from Oracle Fusion
COST_CENTRE_DESCRIPTION	Text (250)	Y	E.g. MIDLANDS ASC 9
Z_DATE_FROM	Date time	Y	Starting period for applicable value
Z_DATE_TO	Date time	Y	Ending period for applicable value

**DYR\_MANAGING\_AGENT**

Name	Data Type	Mandatory	Comment
ID	Int (PK)	Y	
MANAGING_AGENT	Text (50)	Y	Referenced value from Oracle Fusion
MANAGING_AGENT_DESCRIPTION	Text (250)	Y	E.g. Halcrow
Z_DATE_FROM	Date time	Y	Starting period for applicable value
Z_DATE_TO	Date time	Y	Ending period for applicable value

**DYR\_SUB\_MPML**

Name	Data Type	Mandatory	Comment
ID	Int (PK)	Y	
SUB_MPML	Text (50)	Y	Referenced value from Oracle Fusion
SUB_MPML_DESCRIPTION	Text (250)	Y	E.g. LNMS Safety
Z_DATE_FROM	Date time	Y	Starting period for applicable value
Z_DATE_TO	Date time	Y	Ending period for applicable value

**DYR\_CANCELLED\_SCHEMES**

Name	Data Type	Mandatory	Comment
ID	Int (PK)	Y	
PIN	Text (10)	Y	Referenced value from Oracle Fusion
PROJECT_NAME	Text (250)	Y	E.g. M56 Cheadle Branch
REASON_CANCELLED	Text (250)	Y	Reason For Cancellation
USER	Text (25)	Y	User cancelled by
CANCELLED_DATE	Date time	Y	Date Scheme Cancelled



**DYR\_EXCLUDED\_SCHEMES**

Name	Data Type	Mandatory	Comment
ID	Int (PK)	Y	
PIN	Text (10)	Y	Referenced value from Oracle Fusion
PROJECT_NAME	Text (250)	Y	E.g. M56 Cheadle Branch
REASON_EXCLUDED	Text (250)	Y	Reason For Exclusion
USER	Text (25)	Y	User Excluded by
EXCLUDED_DATE	Date time	Y	Date Scheme Excluded

**6. ORACLE FUSION DATA STANDARD – REBASELINING DATA QUALITY**

The following Data Quality checks will be made upon loading of the monthly Oracle Fusion file, to ensure that any flagged rebaseline Schemes have been appropriately authorised and evidenced, and additionally any unauthorised changes are marked accordingly.

When the Oracle Fusion file is loaded, a check is made against the revised Scheme Data Standard for each individual PIN, where the REBASELINING\_FLAG = 'Y' has been set. In this event, there are five data columns within the revised Scheme Data Standard that provide supporting evidence, and should all be present in the event that the REBASELINING\_FLAG = 'Y' has been set:

1. REBASELINE\_REASON\_CODE
2. REBASELINE\_REASON\_DESCRIPTION
3. REBASELINE\_CONTRACTUAL\_EVIDENCE
4. REBASELINE\_HE\_APPROVER
5. REBASELINE\_HE\_APPROVAL\_DATE

The Data Quality flag default value will be 'N' and it will be set to 'Y' if the following criteria are met:

- REBASELINING\_FLAG = Y
- REBASELINE\_REASON\_CODE has one of the 6x valid constrained values
- EXTREME WEATHER
- CHANGE OF SCOPE

- SENIOR MANAGER
- EMERGENCY WORKS
- AGENCY FAILURE
- THIRD PARTY DELAY
- REBASELINE\_REASON\_DESCRIPTION is not blank
- REBASELINE\_CONTRACTUAL\_EVIDENCE is not blank
- REBASELINE\_HE\_APPROVER is not blank
- REBASELINE\_HE\_APPROVAL\_DATE is between REPORTING\_MONTH – 1 and REPORTING\_MONTH - 12

**Validating Rebaselining without Authorisation:**

When the Oracle Fusion file is loaded, an additional Data Quality flag will check for any changes that have been made on a PIN by PIN basis, where one of the milestone dates has been provided in a previous reporting period, but that date has since been updated in the current reporting period and no rebaseline flag has been set and no authorisation given.

The exception to this validation is where milestone construction dates will potentially adjust during a Schemes lifecycle until the Scheme reaches Milestone 4, at which point the Construction Start/End dates are firmly locked, and subsequent changes can only be made through authorised rebaseline processes.

In Oracle Fusion, the columns Construction Start Baseline and Construction End Baseline are indicators that Milestone 4 has been reached and any changes to construction milestone dates can be validated.

Such Scheme PINs will then not be scored correctly.

## Glossary

Term	Meaning
ASC	Asset Support Contract
CPF	Collaborative Performance Framework
FYE	Full Year Earnings
HE	Highways England
MPML	Management Plan Monitoring Line
Ops	Operations
OPC	Operations Performance Community
PMF	Performance Management Framework
REV	Revised
RSA	Road Safety Audit
Oracle Fusion	Oracle Fusion has replaced SfM (System for Managing) since April 2018.
SR	Strategic Roads Division
YTD	Year to Date
WD	Working Day