Computation Method For Changing Interval In Time Bucket (W5)

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PURPOSE

This document describes the computation method for changing interval in time bucket in CS Lucas system.

DESCRIPTION

1) The time bucket interval as follows:

DAY	Single day.
WEEK	Monday to Sunday.
MONTH	1st to Month end (28th, 29th,30th or 31).
YEAR	1st to 31st Dec.

2) As the time horizon in the time bucket series pans out into the future, the interval may be change from a smaller interval to a larger interval but not the other way around. Eg., you may change from DAY interval to WEEK interval but not from WEEK interval to DAY interval.

3) Since the interval between consecutive rows change, the system will, if necessary, shorten the subsequent (and larger) interval to accommodate this change. This may result in a period that is shorter than the stated interval for that period.

Example illustrated below for

a. Row 4 (change from DAY to WEEK interval)
b. Row 7 (change from WEEK to MONTH interval)
c. Row 10 (Change from MONTH to YEAR interval)

Row	Interval	Duration	Start Date	End Date	Remarks
1	DAY	1	15-Feb-12 Wed	15-Feb-12 Wed	1 day duration
2	DAY	2	16-Feb-12 Thu	17-Feb-12 Fri	2 days duration
3	DAY	3	18-Feb-12 Sat	20-Feb-12 Mon	3 days duration
4	WEEK	1	21-Feb-12 Tue	26-Feb-12 Sun	Interval changed from Day to Week. The system starts this interval using the day after the previous end date (21 Feb).
5	WEEK	1	27-Feb-12 Mon	4-Mar-12 Sun	1 complete week (Mon to Sun inclusive)
6	WEEK	1	5-Mar-12 Mon	11-Mar-12 Sun	1 complete week (Mon to Sun inclusive)
7	MONTH	1	12-Mar-12 Mon	31-Mar-12 Sat	Interval changed from Week to Month. The system starts this interval using the day after the previous end date (11 Mar).
8	MONTH	2	1-Apr-12 Sun	31-May-12 Thu	2 complete month (1st to month end)
9	MONTH	1	1-Jun-12 Fri	30-Jun-12 Sat	1 complete month (1st to month end)
10	YEAR	1	1-Jul-12 Sun	31-Dec-12 Mon	Interval changed from Month to Year. The system starts this interval using the day after the previous end date (1 Jul).
11	YEAR	2	1-Jan-13 Tue	31-Dec-14 Wed	2 complete year (1st to year end)
12	YEAR	1	1-Jan-15 Thu	31-Dec-15 Thu	1 complete year (1st to year end)