The end rule not populating is no longer an issue and we have analysed and better understand the way Billing is selecting data from month to month re REEFER time based charges.
If we invoice and then finalise then much of the issues with charges going to the correct month work well as configured.
We CANT finalise these reefer monitoring invoices due to the groovy part of the issue.
See below...

The groovy that CALLAO wrote to get the PUBLIC HOLIDAYS from the Calendar in Billing continues to search and apply invoice items for container having reefer connect charges AFTER
The container left.
The groovy has only one TO Date and that is the Paid through Date that the Billing user enters when running the Reefer Monitoring invoice.

So if we invoice some reefers.
Say 5
They all arrived on 01 April
We invoice on 20th April paid thru date the same

- ➢ 3 left on 18th April which is Easter Monday in the calendar

- ➢ 2 left on 15th April Which is Easter in the calendar

- ▪ The first 3 in the invoice correctly get 2 holidays applied to the invoice item calculations

- ▪ However the last 2 which were only here for ONE holiday also get charged both holidays.

- ▪ The same issue applies to the SATURDAY and SUNDAY counts

This means the groovy continues to count until PTDate and does not see the container TimeOut.

We need a groovy programmer to analyze the following 3 code extensions:
1. TariffRateCalculatorReeferPublicHolidays

2. TariffRateCalculatorReeferSaturday

3. TariffRateCalculatorReeferSunday

in Navis Billing
And show us how to amend it to consider the unit facility visit Time out when going to the calendar to see which billable days fall on a public Holiday.

Based on the above the groovy programmer (if they know billing code) should be able to understand when going through the groovy where it is getting the to dates.
My understanding is it is only from the paid through date entered in the invoice at generation time.

The groovy is called from the contract tariff rates.

The effect is visible in the reefer monitoring invoices as follows.

Invoice Inspector

Invoice Inspector

Draft Nbr: 2247
Final Nbr:
Status: Draft
Finalized Date:
Cust Reference:

Details

Invoice Type: REEFER MONITORING AND POWER CONSUMPTION
Created: 17-Aug-29 0844
Effective Date:
Facility: CENT

Invoice Generate Parameters

Payee: CMA
Contract Customer:
PaidThruDate: 17-Jun-30 2359
Line OperatorId: CMA

We see the container arrived on 10th June. we see that it left on 15th June. This means only one weekend and no holidays: yet the invoice after the groovy changes things shows 3 weekends which is correct if the container had left on the 30th June i.e. the Paid Thru Date) . The Holiday item is only correct as there was no holiday in this period. if there had been 1 holiday the error is the same

Totals

Total Charges: 6,846.89
Taxes: 0.00
Discounts: 0.00
Total: 6,846.89
Credits: 0.00
Credit Taxes: 0.00
Paid: 0.00
Owed: 6,846.89
(Canadian Dollar)

Address
Credits
Discounts
Flex Fields
Item Summary
Items
Messages
Notes
Payments

TCLU -- RUDI

Event Type ID	Event Entity ID	Event Performed From	Event Performed To	Tariff	Description	Quantity Billed	Quantity Unit	Rate Billed	Flat Rate Amount	Exchange Rate	Amount	Remaining Cre
REEFER	TRIU8517501	2017-06-09	2017-06-30	MONOT_SU	MONITORING OVERTIME SUNDAY	3.00000	Items	10.170	30.510	N/A	30.510	
REEFER	CRLU1350175	2017-06-10	2017-06-30	MONOT_HO	MONITORING OVERTIME HOLIDAY	0.00000	Items	16.990	0.000	N/A	0.000	
REEFER	CRLU1350175	2017-06-10	2017-06-30	MONOT_SA	MONITORING OVERTIME SATURDAY	3.00000	Items	4.730	14.190	N/A	14.190	
REEFER	CRLU1350175	2017-06-15	2017-06-15	CHGPW	Reefer Day 1 >	1.00000	Items	8.450	0.000	N/A	8.450	
REEFER	CRLU1350175	2017-06-15	2017-06-15	MONR	MONITORING	1.00000	Items	16.990	0.000	N/A	16.990	
REEFER	CRLU1350175	2017-06-10	2017-06-30	MONOT_SU	MONITORING OVERTIME SUNDAY	3.00000	Items	10.170	30.510	N/A	30.510	
REEFER	AMCU9273251	2017-06-10	2017-06-30	MONOT_HO	MONITORING OVERTIME HOLIDAY	0.00000	Items	16.990	0.000	N/A	0.000	
REEFER	AMCU9273251	2017-06-10	2017-06-30	MONOT_SA	MONITORING OVERTIME SATURDAY	3.00000	Items	4.730	14.190	N/A	14.190	
REEFER	AMCU9273251	2017-06-15	2017-06-15	CHGPW	Reefer Day 1 >	1.00000	Items	8.450	0.000	N/A	8.450	
REEFER	AMCU9273251	2017-06-15	2017-06-15	MONR	MONITORING	1.00000	Items	16.990	0.000	N/A	16.990	
REEFER	AMCU9273251	2017-06-10	2017-06-30	MONOT_SU	MONITORING OVERTIME SUNDAY	3.00000	Items	10.170	30.510	N/A	30.510	
REEFER	AMCU9279619	2017-06-10	2017-06-30	MONOT_HO	MONITORING OVERTIME HOLIDAY	0.00000	Items	16.990	0.000	N/A	0.000	
REEFER	AMCU9279619	2017-06-10	2017-06-30	MONOT_SA	MONITORING OVERTIME SATURDAY	3.00000	Items	4.730	14.190	N/A	14.190	
REEFER	AMCU9279619	2017-06-15	2017-06-15	CHGPW	Reefer Day 1 >	1.00000	Items	8.450	0.000	N/A	8.450	
REEFER	AMCU9279619	2017-06-15	2017-06-15	MONR	MONITORING	1.00000	Items	16.990	0.000	N/A	16.990	
REEFER	AMCU9279619	2017-06-10	2017-06-30	MONOT_SU	MONITORING OVERTIME SUNDAY	3.00000	Items	10.170	30.510	N/A	30.510	
REEFER	CGMU5059093	2017-06-10	2017-06-30	MONOT_HO	MONITORING OVERTIME HOLIDAY	0.00000	Items	16.990	0.000	N/A	0.000	
REEFER	CGMU5059093	2017-06-10	2017-06-30	MONOT_SA	MONITORING OVERTIME SATURDAY	3.00000	Items	4.730	14.190	N/A	14.190	
REEFER	CGMU5059093	2017-06-15	2017-06-15	CHGPW	Reefer Day 1 >	1.00000	Items	8.450	0.000	N/A	8.450	
REEFER	CGMU5059093	2017-06-15	2017-06-15	MONR	MONITORING	1.00000	Items	16.990	0.000	N/A	16.990	
REEFER	CGMU5059093	2017-06-10	2017-06-30	MONOT_SU	MONITORING OVERTIME SUNDAY	3.00000	Items	10.170	30.510	N/A	30.510	
REEFER	CGMU4831772	2017-06-10	2017-06-30	MONOT_HO	MONITORING OVERTIME HOLIDAY	0.00000	Items	16.990	0.000	N/A	0.000	
REEFER	CGMU4831772	2017-06-10	2017-06-30	MONOT_SA	MONITORING OVERTIME SATURDAY	3.00000	Items	4.730	14.190	N/A	14.190	
REEFER	CGMU4831772	2017-06-15	2017-06-15	CHGPW	Reefer Day 1 >	1.00000	Items	8.450	0.000	N/A	8.450	
REEFER	CGMU4831772	2017-06-15	2017-06-15	MONR	MONITORING	1.00000	Items	16.990	0.000	N/A	16.990	

5:409