Paul I would like your assistance with a FERC inquiry, and this is good stuff for you to be familiar with. Terry and Mary, you might be interested in the top half. The bottom half is nerd-speak.

Here is a high-level overview of ticket data flow:

* The Control Center Technician commands SCADA to close a particular valve, indicating the end of an event where Explorer either takes custody of some product into our system, or surrenders custody of some product. A “ticket” is associate with the completion of these events, so called because a paper bill of lading was produced for the counterparties to the transfer back in the day. Paper tickets still get cut by our MIPs computers in the field but, of course, the information on the ticket is also sent to the SCADA system, giving meaning to the “DA” (data acquisition) part of the moniker.
* SCADA stores the ticket info in the Stock Accounting database, specifically the tbl\_ticket table in the PPMS database on the PPMDB-PCC server cluster.
* SCADA then sends the unverified ticket info to T4 by calling the DBSVR-PCC.External..spInsert\_qTickets stored procedure. That stored proc drops the row in T4SQL..q\_tickets and T4 sweeps it shortly thereafter. Shippers, tankers, suppliers, and consignees can now see the ticket on T4 if they were a counterparty to it.
* On the next business day, Chris Roddy methodically verifies the ticket information from the previous day, or days if it is Monday or the day after a holiday. He uses the Ticket Manager application to make any necessary modifications. SCADA doesn’t get everything right the first time, and the CCT’s can manually enter some information. He instructs the Ticket Manager to send the changes to T4, again, by calling sp\_ qTickets.
* Once he is happy with the whole day’s tickets, he instructs Ticket Manager to send the day’s business to TIS. It does so by calling DBSVR-PCC.External..spInsertTransactions.
* On occasion Chris will have to revisit a ticket at a later date to make a correction in Ticket Manager. The ticket information is transferred to T4 and TIS in the same way described avove.

Clearly, once Chris has had time to review the tickets and send them to the TIS Transactions table, it should perfectly match the contents of the T4SQL Tickets table for receipts and deliveries. It almost perfectly matches. Here are some that don’t:

USE EXPLORER

select t4t.\* from transactions t right outer join t4sql..tickets t4t on t.ticket\_id = t4t.ticket\_id

where t4t.ticket\_date >= '1/1/2015' and t.ticket\_id is null and t4t.ticket\_number like 'ERR%'

They show some variation of ‘ERR’ in the ticket number. I would assume those shouldn’t be going to T4 at all. They don’t show up in TIS. Please ask Chris what should become of these. Should SCADA just not send them? Should we filter them out in spInsert\_qTickets?

Next up is a group of tickets with EXP as the shipper, tanker, and supplier\_consigee. EXP is Explorer Pipeline, so these are likely for internal consumption. A few have a tanker other than EXP, so the tanker counterparty would see them in T4. What are they for?

select t4t.\* from transactions t right outer join t4sql..tickets t4t on t.ticket\_id = t4t.ticket\_id

where t4t.ticket\_date >= '1/1/2015' and t.ticket\_id is null and t4t.shipper = 'EXP'

Another group just nets to zero, meaning Chris corrected them by making an adjusting entry. Nothing to do here.

select t4t.shipper, t4t.ticket\_number, sum(net\_volume) SumNetVolume

from transactions t right outer join t4sql..tickets t4t on t.ticket\_id = t4t.ticket\_id

where t4t.ticket\_date >= '1/1/2015' and t.ticket\_id is null and t4t.ticket\_number not like 'ERR%'

and ticket\_date < '7/17/2016' group by t4t.shipper, t4t.ticket\_number having sum(net\_volume) = 0 order by t4t.shipper, ticket\_number

Lastly are three that aren’t EXP tickets and don’t net to zero. Two of them were an attempt to move volumes between shippers, but the other I’m not sure about. Please ask Chris if something needs to be done.

select t4t.shipper, t4t.ticket\_number, sum(net\_volume) SumNetVolume

from transactions t right outer join t4sql..tickets t4t on t.ticket\_id = t4t.ticket\_id

where t4t.ticket\_date >= '1/1/2015' and t.ticket\_id is null and t4t.ticket\_number not like 'ERR%' and t4t.shipper <> 'EXP'

and ticket\_date < '7/17/2016' group by t4t.shipper, t4t.ticket\_number having sum(net\_volume) <> 0 order by t4t.shipper, ticket\_number

|  |  |  |
| --- | --- | --- |
| shipper | ticket\_number | SumNetVolume |
| DFL | RB-103 | 7444 |
| HRL | P-3320 | -1628 |
| KME | P-3320 | 1628 |