From:	Ben Erickson
Sent:	Tuesday, May 17, 2022 1:39 PM
To:	Justin Pope
Cc:	Cather Cheese
Subject:	RE: Freight project - last pieces

Confirmed this looks good.

Ben Erickson
Vice President of Information Technology

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Tuesday, May 17, 2022 1:09 PM
To: Ben Erickson <ben@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Ben,

Next version,

Got Order 210-1017745 to pass. It is a little awkard to have to look at each flag on the SorDetail entry, but it is what it is. Let me know if anything else is needed.

Justin Pope
Software Developer

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From: Ben Erickson <ben@summerclassics.com>
Sent: Tuesday, May 17, 2022 12:15 PM
To: Justin Pope <JustinP@summerclassics.com>

Subject: RE: Freight project - last pieces

Slight issue related to tax. And I think I steered you wrong slightly as well regarding the surcharge line types.

Tested:
1. Pass: Order 210-1015336 that we had been working with and that looks good.
2. Pass: Order 210-1015554 which has tax (freight not taxable) and had some product dispatched but not invoiced yet and some product in reserve with outstanding freight and surcharge. I got total of $25,541.23 which matched the new proc. That's a combination of what's on the pending dispatch and on reserve on the order plus freight for products only.
3. Pass: Order 210-1016426 which has tax (Freight not taxable) and had all product dispatched but not invoiced yet.
4. Fail: Order 210-1017745 this order already has a deposit and no open dispatches. Result from new proc is a negative $786.89. which is the value of the tax. So I'm not sure why it's coming across as that, but it did highlight that line types 5 and 6 appear to get their taxable nature from SorDetail.NMscTaxCode and both line types could be taxable. It actually doesn't matter what AdmUsaTax.FreightTaxable's value is as that is just used by the client when the freight line is added. The actual tax calculation at the order level ignores that flag and just looks at the SorDetail value.

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Tuesday, May 17, 2022 9:20 AM
To: Ben Erickson <ben@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Ben,

Finally got this smoothed out. Added testing script if interested.

Let me know if there are anymore tweaks.

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Regarding the Tax, we would look at SorMaster.TaxExemptOverride (Or MdnMaster.TaxExemptOverride in the case of open dispatches). If it's E then it's Exempt, otherwise it's not exempt and would need tax calculated.

For the open dispatch, you want to only look at MdnMaster and MdnDetail. In MdnMaster, filter on DispatchNoteStatus. Other thing there is you're looking at MQtyDispatched, but since these are open still, you have to look at MQtyToDispatch. Alternatively, for the line type 1's, they've already done the math on the discounts in the TotalValue field, so you could also change your case to the below (note I temporarily removed the part about tax):

```
select
                ISNULL(SUM(
                                CASE MD.LineType
                                        WHEN @LineType_Freight
                                                THEN MD.NMscChargeValue
                                        WHEN @LineType_MiscCharge
                                                THEN MD.NMscChargeValue
                                        ELSE
                                                MD.TotalValue
                                END), 0) AS [Value]
        from SysproCompany100.dbo.MdnMaster AS MM
                inner join SysproCompany100.dbo.MdnDetail as MD on MD.DispatchNote =
MM.DispatchNote

                where MM.SalesOrder = @SalesOrder AND MM.DispatchNoteStatus IN ('3','5','7','H','S')
```

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Ben,

I'm not able to replicate the same totals that you are showing in your last email.

Calculations:
>   I can get the following:
>   Ship + reserve | 1921.00
>   Deposit | 24831.27
>
>   What is different:
>   Ship + Reserve portion of open freight and surcharge | 995.1409836065573900000
>>   Calculation:
>>   Total open charges: 3160.00
>>   Back Order Total: 4179.00
>>   Charge Split Percent | 0.31491803278688525 = 1921.00 / (1921 + 4179)
>
>   Open Dispatch | 4235.27
>   I am doing the following to get the open dispatch amount

```sql
select
            ISNULL(SUM(
                                    CASE SD.LineType
                                            WHEN @LineType_Freight
                                                    THEN SD.NMscChargeValue *
(IIF(@TaxFreightFlag = @YesValue, @TaxRate, @OneValue))
                                            WHEN @LineType_MiscCharge
                                                    THEN SD.NMscChargeValue
                                            ELSE
                                                    CASE SD.[MDiscValFlag]
                                                            WHEN @DiscountPercent
                                                                    THEN MD.MQtyDispatched *
                                                                            ((1 - SD.[MDiscPct1] /
100) *
                                                                            (1 -
SD.[MDiscPct2] / 100) *
                                                                            (1 -
SD.[MDiscPct3] / 100))
                                                            WHEN @DiscountUnit
                                                                    THEN MD.MQtyDispatched *
                                                                            (SD.[MPrice] -
SD.[MDiscValue])
                                                            WHEN @DiscountValue
                                                                    THEN (MD.MQtyDispatched *
SD.[MPrice]) -
                                                                            SD.[MDiscValue]
                                                            ELSE SD.[QtyReserved] * SD.[MPrice]
                                                    END
                            END), 0) AS [Value]
            from SysproCompany100.dbo.SorDetail as SD
                    inner join SysproCompany100.dbo.MdnDetail as MD on MD.SalesOrder = SD.SalesOrder
```

```
          and MD.SalesOrderLine = SD.SalesOrderLine
                where SD.SalesOrder = @SalesOrder
```

Do I need to consider Invoice tables?

Also, curious if there is an update to how to get tax?

Thanks,

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Software Developer

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From: Ben Erickson <ben@summerclassics.com>
Sent: Friday, May 13, 2022 12:19 PM
To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

I think I steered you a little wrong on the sales tax, double checking on that part.

Example order in test with no tax: 210-1015336

Deposit value: $24,831.27
Open dispatch note: $23,301.27 ($19,066 of product and $4,235.37 of freight/surcharge)
Remainder on order: $8,555 ($6,100 of product and $2,455 of freight/surcharge)
Reserve value of product: $820.00
Value in Ship Qty: $1,101.00

So here we would be assuming that the deposit outstanding is to cover the dispatch that is pending and the product in ship plus freight and duties for that product (it's actually a little off that but doesn't matter for our test scenario).

So in determining what the outstanding amount to charge would be, we would do the Value of stocked lines in reserve or ship (SorDetail.QtyReserved + SorDetail.MShipQty) (plus tax) plus applicable percent of freight (plus tax) and surcharge that would get dispatched when those items in reserve or ship are dispatched plus outstanding dispatch notes that aren't invoiced (plus tax) less the total open deposit (from PosDeposit).

Which would be:

	Ship + reserve	$1,921.00
+	Ship + Reserve tax	$-
+	Ship + Reserve portion of open freight and surcharge	$773.12

+	Freight Tax	$-
+	Open Dispatch	$23,301.27
+	Dispatch Tax	$-
-	Deposit	$24,831.27
	Total Due	$1,164.12

Looks like your proc is returning $2,694.12 which would be the reserve plus ship plus applicable freight/surcharge. But need to add in the logic to add any pending dispatches for that sales order less open deposit value (from PosDeposit) to get the net charge amount so they don't have to do any of the math.

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Wednesday, May 11, 2022 3:18 PM
To: Ben Erickson <ben@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Ben,

Here is the work that I have done so far. I have the current procedure and my updated procedure. I included a test script for your viewing pleasure.

Let me know if there is anything I'm missing.

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Sent: Wednesday, May 11, 2022 3:01 PM
To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Gotcha. In theory they should either be all zeros for the fields or link, but that's theory for you! I would just say if there is no matching tax record, then assume taxes would be zero.

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Wednesday, May 11, 2022 2:59 PM
To: Ben Erickson <ben@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Ben,

That was what I was leading up to. There is a Sales Order I'm looking at that isn't linking to a tax record.

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From: Ben Erickson <ben@summerclassics.com>
Sent: Wednesday, May 11, 2022 2:39 PM
To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Math looks good. Might should make it a left join and use ISNULL in case there is not a matching record. One thing I omitted though, in addition to linking over to get the tax rate, there's also a flag where you could have a tax code selected but don't need to charge tax. So if SorMaster.TaxExemptFlag = E then don't add tax.

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Wednesday, May 11, 2022 2:00 PM
To: Ben Erickson <ben@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

When getting the tax rate from AdmUsaTax, am I doing it correctly?

```
select
       @TaxRate = sum(FirstRate11+FirstRate21+FirstRate31)/100 + 1,
       @TaxFreightFlag = Tax.FreightTaxable
from SysproCompany100.dbo.SorMaster as sm
       inner join SysproCompany100.dbo.AdmUsaTax as Tax on Tax.[State] = sm.[State]
                                                                                         and
Tax.[CountyZip] = sm.[CountyZip]
                                                                                         and
Tax.City = sm.[ExtendedTaxCode]
```

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From: Ben Erickson <ben@summerclassics.com>
Sent: Wednesday, May 11, 2022 9:56 AM
To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Based off our conversation just now, we would want to tweak to the below. Reason being if there is something in MShipQty that would mean that is about to be dispatched so we should have already collected payment for that portion.

Value of stocked lines in reserve or ship (SorDetail.QtyReserved + SorDetail.MShipQty) (plus tax) plus applicable percent of freight (plus tax) and surcharge that would get dispatched when those items in reserve or ship are dispatched plus outstanding dispatch notes that aren't invoiced (plus tax) less the total open deposit (from PosDeposit).

So for calculating your percent on the freight and surcharge to split Charge% = (Reserved amount + Ship Amount) / (Reserved amount + Ship amount + Back Order amount)

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From: Justin Pope <JustinP@summerclassics.com>
Sent: Wednesday, May 11, 2022 9:18 AM
To: Ben Erickson <ben@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Ben,

Just to confirm, I would need to take a percentage of the open freight and surcharge to add to the reserve calculations? In my calculations
　　　back order quantity = MShipQty + MBackOrderQty+QtyReserved

So, amount to add to the ReserveValue would be:
　　　Charge% = Reserved amount / Reserved amount + Ship amount + Back Order amount

Let me know if this is on track.

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From: Ben Erickson <ben@summerclassics.com>
Sent: Wednesday, May 11, 2022 8:22 AM

To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: RE: Freight project - last pieces

Justin,
Update on this after discussing with the accounting team, we want to change usp_SalesOrder_ReserveValue to calculate an amount to charge. This would be the Value of stocked lines in reserve (SorDetail.QtyReserved) (plus tax) plus applicable percent of freight (plus tax) and surcharge that would get dispatched when those items in reserve are dispatched plus outstanding dispatch notes that aren't invoiced (plus tax) less the total open deposit (from PosDeposit).

Tax information is located in [SysproCompany100].[dbo].[AdmUsaTax]. Note there is a Freight Taxable field, so if this is Y then the line type 4 freight item would need tax, if it's N then no. Surcharges would not be taxed. The tax rates are broken into 3 pieces (state, county, and city). So to get the rate, Add those and divide by
100. `([FirstRate11]+[FirstRate21]+[FirstRate31])/100 AS TaxRate`

You can link State, CountyZip, and City from AdmUsaTax to both SorMaster (State, County Zip, and ExtendedTaxCode) and MdnMaster (State, County Zip, and ExtendedTaxCode)

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From: Ben Erickson
Sent: Friday, May 6, 2022 5:19 PM
To: Justin Pope <JustinP@summerclassics.com>
Cc: Cather Cheese <CatherC@summerclassics.com>
Subject: Freight project - last pieces

Justin,
Just so you can start looking at it. Below are the two stored procedures that feed two custom fields in Syspro. We're going to setup some time with accounting to review exactly what they want to display on each, but I think we'll end up changing them up to better present what they should be charging to the customer knowing that the freight/surcharge will be split at time of shipping.

In PRODUCT_INFO
`[Syspro].[usp_SalesOrder_DepositValue]`
`[Syspro].[usp_SalesOrder_ReserveValue]`

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