
Subject: Documentation / more info

Posted by [jimlef](#) on Sun, 04 Oct 2020 22:53:23 GMT

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I've been digging through the site for info on the QTF/reporting methodologies.

Specifically, I don't see how to set things like Portrait/landscape mode (is that just swapping x/y size values)?

Setting font size/type?

Totals?

Column alignment?

Would love a good overview of the available functions for QTFReport, and similar for more advanced QTF arrangements.

I found the following so far:

[https://www.ultimatepp.org/srcdoc\\$Report\\$PrintArea_en-us.html](https://www.ultimatepp.org/srcdoc$Report$PrintArea_en-us.html)

[https://www.ultimatepp.org/reference\\$Reports\\$en-us.html](https://www.ultimatepp.org/reference$Reports$en-us.html)

And some forum posts from 2011-ish relating to RepGen (which I admit I don't understand)

Subject: Re: Documentation / more info

Posted by [jimlef](#) on Mon, 05 Oct 2020 00:05:53 GMT

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I've managed to answer some of my own questions by going to the source... here's some sample code:

```
sqlTaxReport.AddColumn(INVOICENUMBER, "Inv NO.", 100);
sqlTaxReport.AddColumn(DATEPAID, "Date Paid", 200).SetConvert(DateIntConvert());
sqlTaxReport.AddColumn(CUSTOMERID, "Cust. No.", 65); // OR CUSTNAME, IF NOT ANON
sqlTaxReport.AddColumn(CUSTNAME, "Customer Name", 140).HeaderTab().Show(false);
sqlTaxReport.AddColumn(TAXABLESUB, "Taxable",
80).SetConvert(ConvDouble()).SetDisplay(StdRightDisplay()).HeaderTab().AlignRight();
sqlTaxReport.AddColumn(NONTAXABLESUB, "Non-Taxable",
80).SetConvert(ConvDouble()).SetDisplay(StdRightDisplay()).HeaderTab().AlignRight();
sqlTaxReport.AddColumn(TAX, "Sales Tax",
80).SetConvert(ConvDouble()).SetDisplay(StdRightDisplay()).HeaderTab().AlignRight();
sqlTaxReport.AddColumn(GRANDTOTAL, "Total",
80).SetConvert(ConvDouble()).SetDisplay(StdRightDisplay()).HeaderTab().AlignRight();
sqlTaxReport.AddColumn(COST, "My Parts Cost",
80).SetConvert(ConvDouble()).SetDisplay(StdRightDisplay()).HeaderTab().AlignRight(); // PARTS
COST FOR THIS INVOICE
```

.
.

```

void TaxWindow::CreateReport()
{
    if (sqlTaxReport.GetCount() > 0) {
        // QtfReport(sqlTaxReport.AsQtf());
        Report report;
        report.Landscape().Header("TaxReport");
        report.SetStdFont(SansSerifZ(12));
        report << sqlTaxReport.AsQtf();
        Perform(report);
    }
}

```

Successfully sets landscape mode, and creates a header that is shown on each page ("TaxReport").

SetStdFont doesn't seem to be doing anything? Of course I'm guessing as to it's field ...

Still looking for a way to set column alignment. (Was hoping sqlArray would send that info through in QTF).

Subject: Re: Documentation / more info
 Posted by [jimlef](#) on Mon, 05 Oct 2020 04:04:36 GMT
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Well, I have usable reports printing with my test data, I'll attach a sample pdf here.

Still haven't found a way to override font size though LOL

Jim

```

void TaxWindow::CreateReport(String start, String end)
{
    if ( sqlTaxReport.GetCount() > 0 )
    {
        double sumTaxable = 0.0, sumNontaxable = 0.0, sumTax = 0.0, sumTotal = 0.0, sumParts = 0.0;
        String headertext;
        int strt, ending;

        String s = ::Format(Date( 1970, 1, 1) + StrInt(start));
        String e = ::Format(Date( 1970, 1, 1) + StrInt(end));
        headertext << "Tax Report " << s << " to " << e;
        for ( int i = 0; i < sqlTaxReport.GetCount(); i++ )
        {

```

```

sumTaxable += ( double ) sqlTaxReport.Get ( i, TAXABLESUB );
sumNontaxable += ( double ) sqlTaxReport.Get ( i, NONTAXABLESUB );
sumTax += ( double ) sqlTaxReport.Get ( i, TAX );
sumTotal += ( double ) sqlTaxReport.Get ( i, GRANDTOTAL );
sumParts += (IsNull(sqlTaxReport.Get ( i, COST ))) ? 0.0 : ( double ) sqlTaxReport.Get ( i,
COST );
}

if (anon.Get() == 1)
    taxQTF = "{{148:297:96:0:119:118:119:119:119 [C2 :: Totals:: :: :: ";
else taxQTF = "{{135:270:0:189:108:108:108:108:109 [C2 :: Totals:: :: :: ";
taxQTF << DbIStr(sumTaxable) << ":: " << DbIStr(sumNontaxable) << ":: " << DbIStr(sumTax) <<
":: " << DbIStr(sumParts) << ":: " << DbIStr(sumTotal) << "}}";
Report report;
report.SetStdFont ( SansSerif( 12 ) );
report.Landscape().Header ( headertext ).Footer ( "Page $$P" );
report << sqlTaxReport.AsQtF() << taxQTF;

Perform ( report );
}
}

```

File Attachments

1) [taxreport.pdf](#), downloaded 355 times

Subject: Re: Documentation / more info
 Posted by [mirek](#) on Mon, 05 Oct 2020 15:25:00 GMT
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```
report << "[8 " << sqlTaxReport.AsQtF() << "]" << taxQTF;
```

If single digits are too coarse, try

```
report << "[+20 " << sqlTaxReport.AsQtF() << "]" << taxQTF;
```

Subject: Re: Documentation / more info
 Posted by [mirek](#) on Mon, 05 Oct 2020 15:26:29 GMT
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That said, ArrayCtrl::AsQtF is just "toy" function. If I remember well, I never used it for "real" reports...

In my apps, these were usually fetching data from database and formatting them using QtF.

Mirek

Subject: Re: Documentation / more info
Posted by [mirek](#) on Mon, 05 Oct 2020 15:34:13 GMT
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```
taxQTF << DbIStr(sumTaxable) << ":: " << DbIStr(sumNontaxable) << ":: " << DbIStr(sumTax) <<
  ":: " << DbIStr(sumParts) << ":: " << DbIStr(sumTotal) << "}}";
```

Should work without DbIStr.

```
taxQTF << sumTaxable << ":: " << sumNontaxable << ":: " << sumTax << ":: " << sumParts << "::
" << sumTotal << "}}";
```

<< converts everything to text.... (But then you will probably want to convert to two decimal places, so you will need some function there anyway).

Mirek

Subject: Re: Documentation / more info
Posted by [jimlef](#) on Mon, 05 Oct 2020 15:43:34 GMT
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Thank you!

Ultimately, as I learn more, I'm going in that direction myself. AsQTF got me started though, as I could output QTF format files and see what's going on.

For example, your previous suggestion was to output << "[8 " << and a closing "]" . This throws an error in the generated report, extra "]", and font is unchanged - the generated qtf from as qtf starts with

Quote:

```
{{153:153:0:215:123:122:123:123:123@L [* #Inv NO.#:: #Date Paid#:: #Cust. No.#:: #Customer
Name#:: #Taxable#:: #Non-Taxable#:: #Sales Tax#:: #My Parts Cost#:: #Total#::@W ]
```

But I think I'm getting the hang of it, as your generated AsQTF and my taxQTF string shows me the way I can just do a "foreach row" and generate line by line, even alternating colors...

```
"[C2 A :: B :: C :: D ::> E ::> F ::> G ::> H ::> I ::@L]"
"[C2 A :: B :: C :: D ::> E ::> F ::> G ::> H ::> I ::@W]"
```

If I'm doing that right...

Jim

Subject: Re: Documentation / more info
Posted by [jimlef](#) on Mon, 05 Oct 2020 15:46:27 GMT
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mirek wrote on Mon, 05 October 2020 11:34

```
taxQTF << DbIStr(sumTaxable) << ":: " << DbIStr(sumNontaxable) << ":: " << DbIStr(sumTax) <<
  ":: " << DbIStr(sumParts) <<":: " << DbIStr(sumTotal) << "}}";
```

Should work without DbIStr.

```
taxQTF << sumTaxable << ":: " << sumNontaxable << ":: " << sumTax << ":: " << sumParts << "::
" << sumTotal << "}}";
```

<< converts everything to text.... (But then you will probably want to convert to two decimal places, so you will need some function there anyway).

Mirek

I think `Format("%2!nl", number)` might be what I need but it's good to know about '<<' as I wasn't sure...

I'll try that in my generated QTF and see how it looks.

Jim