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Subject: Re: Output2 - Options / 90° cell rotation  
Posted by [AJM](#) on Tue, 22 Oct 2019 11:14:14 GMT  
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This is the sequence of events in the OUTPUT2 pattern:

- 1) The report structure file is read into memory during execution of the `initsession()` function.
- 2) The following methods are called: `$dbobject->initialise()`, `$dbobject->getExtraData()`, `$dbobject->getData_serial()`.
- 3) The PDF object is instantiated and the `$pdf->outputPDF_ListView()` method is called which has the following steps:
  - 3.1) Call the `$dbobject->_cm_pre_output()` method.
  - 3.2) Call the `$pdf->listView()` method which has the following steps:
    - 3.2.1) Call `$dbobject->fetchRow()`.
    - 3.2.2) Call `$dbobject->_cm_post_fetchRow()`.
  - 3.3) Call `$pdf->listView_print()`.
  - 3.3.4) Call `$dbobject->_cm_formatData()`.
  - 3.3.5) Call `$pdf->listView_assemble_row()` for each column.
  - 3.3.6) Call `$pdf->printRow()` to output the row to the PDF document, which calls the following at the start of each page:
    - 3.3.6.1) Call `$dbobject->_cm_ListView_header()`
    - 3.3.6.2) Call `$pdf->Header()` to print the page heading.
    - 3.3.6.3) Output the column labels.

While testing this I discovered that the ability to use dynamic column labels was not available, so I have amended `std.pdf_list.class.inc` (which is attached) to add this ability. To use this feature you need to do the following:

- a) In your report structure file change the column label from a literal to `'%%id'` where 'id' is the label identity.
- b) In your object's `_cm_ListView_header()` method (see step 3.3.6.1 above) insert code similar to the following:  
`$this->dynamic_column_headings = array('id' => 'whatever');`

This will then enable the step at 3.3.6.3 (which I have amended) to replace `'%%id'` with `'whatever'`.

Try it and see.

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## File Attachments

- 1) [std.pdf\\_list.class.inc](#), downloaded 522 times
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