

# Report

This was an experiment, but was later (before Tiki19) removed and reports are much better done via [PluginList](#) and [PluginTrackerList](#).

New feature in [Tiki9](#)

Tiki Report is a new way of creating and extracting data from Tiki in version 9 (trunk at time of writing). They consist of an abstract way of assembling each phase needed to create reports.

You create a Report Definition in which you define an input method, that returns what is possible in your report, and then an output method, that is your desired report criteria based on user input. The report user interface is automatically generated based off of the input method.

The aim with Reports is to eventually have saveable, reusable reports, that generate live data for use in a dashboard or spreadsheet.











## Bugs & Wishes

### Open and Pending

[Wishlist](#)

Rating	Subject	Submitted by	Importance	Easy to solve?	Priority	Category	Volunteered to solve	Created	LastModif	Comments
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### Closed

Rating	Subject	Submitted by	Importance	Easy to solve?	Priority	Category	Volunteered to solve	Created	LastModif	Comments
    	<a href="#">Reports in 9x: Fatal error: Maximum execution time of 300 seconds exceeded in smarty_internal_data.php</a>	Xavier de Pedro	7	5	35	• Error		2012-10-30	2021-10-10	1 marclaporte-10 Oct 21
    	<a href="#">Report shows html code in spreadsheet cells</a>	Xavier de Pedro	6	5	30	• Error		2012-10-30	2021-10-10	1 marclaporte-10 Oct 21

Rating	Subject	Submitted by	Importance	Easy to solve?	Priority	Category	Volunteered to solve	Created	LastModif	Comments
	Report doesn't filter by date	Xavier de Pedro	6	5	30	• Error • Consistency		2012-10-30	2021-10-10	1 marclaporte-10 Oct 21
	Report doesn't show open items in trackers while PluginTrackerList does	Xavier de Pedro	5	5	25	• Consistency		2012-10-30	2021-10-10	1 marclaporte-10 Oct 21
	Command line re-indexing of search: should give you stats like web interface	Marc Laporte	3	7	21	• Feature request	manivannans	2013-08-07	2013-11-02	0
	Report doesn't filter for an 'Item link' tracker field	Xavier de Pedro	4	5	20	• Error		2012-11-01	2021-10-10	1 marclaporte-10 Oct 21
	Requesting a report fails due internal server error 500	WolfgangA	4		20	• Error		2015-02-03	2021-10-10	1 marclaporte-10 Oct 21

## Things to keep in mind

- Files in `lib/core/Report` folder are used for report building
- Files in `/lib/core/Report/Definition/` are those used to define first what reports can be generated and then their output, unless further developing how reports are generated

- These files are automatically listed, they probably need feature detection

## How to create a definition

- Definitions are an abstract on what can be created from your report

Basic Generic Definition (copy to `/lib/core/Report/Definition` or name "Generic.php"):

```
class Report_Definition_Generic
{
    function input()
    {
        //here we tell report what we can build with out report
        return array("values"=>array(),"options"=>array());
    }

    function output($values = array())
    {
        //here we assemble report based off of
        return $myGenericReportObject->assemble($values);
    }
}
```

Example for Tracker Definition:

```
<?php
class Report_Definition_Tracker
{
    function input() {
        global $tikilib;
        $trackers = array();
        foreach($tikilib->table('tiki_trackers')->fetchAll(array('trackerId','name'))
as $column) {
            $trackers[] = array(
                "name"=> $column['name'] . ' - ' . $column['trackerId'],
                "value"=> $column['trackerId'],
            );
        }
        $trackerFields = array();
        foreach($tikilib->table('tiki_tracker_fields')->fetchAll(array('trackerId',
'fieldId', 'name')) as $column) {
            $trackerFields[] = array(
                "name"=> $column['name'] . ' - ' . $column['fieldId'],
                "value"=> $column['fieldId'],
                "dependancy"=> $column['trackerId'],
            );
        }

        /*
            type:
                single (if value, turns into list, if no value, is textbox)
        */
    }
}
```

```

        multi (needs value, is checkbox)
        date      (simple date range)
        singleOneToOne (
*/
return array(
    "values"=> array(
        "trackers"=>          $trackers,
        "trackerFields"=>    $trackerFields,
        "trackerItemStatus"=>array("o", "p", "c"),
    ),
    "options"=> array(
        array(
            "label"=>          tr("Tracker"),
            "name"=>           "tracker",
            "type"=>           "single",
            "values"=>         "trackers",
            "repeats"=>        false,
            "required"=>       true,
            "options" =>      array(
                array(
                    "label"=>          tr("Start"),
                    "name"=>           "start",
                    "type"=>           "date",
                    "repeats"=>        false,
                    "required"=>       false,
                ),
                array(
                    "label"=>          tr("End"),
                    "name"=>           "end",
                    "type"=>           "date",
                    "repeats"=>        false,
                    "required"=>       false,
                ),
                array(
                    "label"=>          tr("Item
Id"),
                    "name"=>           "itemId",
                    "type"=>           "single",
                    "repeats"=>        false,
                    "required"=>       false,
                ),
                array(
                    "label"=>
tr("Status"),
                    "name"=>           "status",
                    "type"=>           "multi",
                    "values"=>
"trackerItemStatus",
                    "repeats"=>        false,
                    "required"=>       false,
                ),
                array(
                    "label"=>

```

```

tr("Search"),
    "relationLabel"=>tr(" for "),
    "name"=> "search",
    "type"=>
"singleOneToOne",
    "dependancy"=>
array("tracker"),
    "values"=>
array("trackerFields"),
    "repeats"=> true,
    "required"=> false,
),
array(
tr("Fields"),
    "label"=>
    "name"=> "fields",
    "type"=> "multi",
    "dependancy"=> "tracker",
    "values"=>
"trackerFields",
    "repeats"=> false,
    "required"=> false,
),
),
),
);
}
function output($values = array())
{
    global $tikilib;
    $tracker = $values['tracker'];
    $qry = TikiLib::lib('trkqry')->tracker($tracker['value'])
        ->start($tracker['start']['value'])
        ->end($tracker['end']['value'])
        ->itemId($tracker['itemId']['value'])
        ->excludeDetails();
    if (!empty($tracker['status'])) {
        $allStatus = '';
        foreach($tracker['status'] as $status) {
            if (!empty($status['value'])) $allStatus .= $status['value'];
        }
        $qry->status($allStatus);
    }
    if (!empty($tracker['search'])) {
        $fieldIds = array();
        $search = array();
        for($i = 0; $i < count($tracker['search']); $i++) {
            if (!empty($tracker['search'][$i]) && $tracker['search'][$i +
1]) {
                $fieldIds[] = $tracker['search']['value'][$i];
                $search[] = $tracker['search']['value'][$i + 1];
            }
        }
    }
}

```

```

        $i++
        ; //searches are in groups of 2
    }
    if (!empty($fieldIds) && !empty($search)) {
        $qry
            ->fields($fieldIds)
            ->equals($search);
    }
}
$result = $qry->query();
if (!empty($tracker['fields'])) {
    $newResult = array();
    foreach($result as $itemKey => $item) {
        $newResult[$itemKey] = array();
        foreach($tracker['fields'] as $field) {
            $newResult[$itemKey][$field['value']] =
$result[$itemKey][$field['value']];
        }
    }
    $result = $newResult;
    unset($newResult);
}
return $result;
}
}

```

## Array value from input has 2 possible keys values(optional) & options(required)

### Creating report values

each key in values is a sub-array with the following keys:

name - User Interface Name, please use tr() when possible

value - selectable and returned value

dependency - parent value dependency (optional)

### Creating reportable options

Options consist of the following variables and are nestable:

- label - What it will be called on the user interface, please use tr() when possible
- name - The array name what it will be returned as
- type - How it is going to be treated on the user interface
  - Acceptable types: single, date, multi, singleOneToOne
- values - will link with values key at user interface
  - If type set to single, will give select (drop down list of options)
- repeats - not yet working
- required - not yet working
- options - nested option(s)

# Example 1

- Create a new wiki page, for example, wikiReport
- Paste this simple text into it:

```
{report}
```

- Save the wiki page.
- Click the pencil edit icon to edit the page you just saved.
- A report plugin configuration panel will pop up.
- Perhaps select the Report Type "Tracker". Select one of your trackers and a couple of fields from that tracker.
- Complete that panel and save it.
- On your wikiReport page, you should now see a table, non-editable, of your tracker data.

# Example 2

- This process is still under construction...
- Create a file on your webserver:  
lib/core/Report/Definition/TestReport.php
- Paste into that file the ~150+ lines of code from the "Example for Tracker Definition" above.
- Save that file.
- Follow Example 1 immediately above, but instead of selecting Report Type "Tracker", you will see your new report design "TestReport" in the Report Type drop down list.

## Related:

- [Help](#)
- [Business Intelligence](#)
- [Rating Language](#)
- <https://www.ohloh.net/tags/report>
- <http://pipes.deri.org/>
- [http://en.wikipedia.org/wiki/Report\\_Definition\\_Language](http://en.wikipedia.org/wiki/Report_Definition_Language)
- <https://www.ohloh.net/p/reportico>
- <http://sourceforge.net/blog/august-2015-staff-pick-project-of-the-month-jasperreports-server/>

## alias

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- [Reports](#)
- [UniversalReport](#)
- [Universal Report](#)
- [UniversalReports](#)
- [Universal Reports](#)