

Issues in specific status (Period)

This chart will display the number of issues that were in a specific status in a specific period, selected with a custom JQL and a group picker.

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Chart preview

Time	Status: In Progress
2017 - 11	16
2017 - 12	16
2018 - 01	17
2018 - 02	15
2018 - 03	16
2018 - 04	16
2018 - 05	16
2018 - 06	3

Parameters

Name	Type	Default
Jql_Param	JQL autocomplete	
Period_Param	time Period Picker	Month
Periods_Param	Text	
Group_Param	Group Picker (single group)	
Satus_Param	Text	

Layout Script

JavaScript Template

```
var div = $("#chart");

if(chartData.columns.length == 0)
{
    $(div).append("<h4>"+chartData.empty.label.text+"</h4>");
}
else
{
    if(chartData.custom.title)
        $(div).append("<h4>"+chartData.custom.title+"</h4>");
    var table = d3.select("#chart").append('table')
    var thead = table.append('thead')
    var tbody = table.append('tbody');

    $("#chart > table").addClass("table")
    thead.append('tr').selectAll('th').data(chartData.columns[1]).enter().append('th').text(function
(column) { return column; });
    $('thead > tr > th:first').text(chartData.ytype)
    var tr = tbody.selectAll('tr').data(chartData.groups[0]).enter().append("tr");

    var td = tr.selectAll("td").data(function(d)
    {
        var result = new Array();
        $.each(chartData.columns,function(index,value){
            if(value[0] == d){
                result.push.apply(result,value);
            }
        });
        return result;
    }).enter().append("td").text(function(d,i)
    {
        return d;
    });
}

updateFrameHeight()
```

Data Script

Groovy Script

```
// This script has five parameters

// Jql_Param - to choose the issues (can use the JQL Picker)
// Period_Param - to choose the time period ("day", "week", "month", "quarter", "halfyear" or "year")
// Periods_Param - the number of past periods to show
// Group_Param - the name of the group to compute the average (issues/groupmembers)
// Status_Param - the ID of the status, which an issue was in a period to count

import java.math.BigDecimal;
import java.util.Arrays;
import java.util.Date;
import java.util.List;
import java.util.Map;

import org.apache.log4j.Logger;

import com.atlassian.jira.component.ComponentAccessor;
import com.atlassian.jira.config.StatusManager;
```

```

import com.atlassian.jira.issue.Issue;
import com.atlassian.jira.issue.changehistory.ChangeHistoryManager;
import com.atlassian.jira.issue.history.ChangeItemBean;
import com.atlassian.jira.jql.parser.JqlParseException;
import com.atlassian.jira.jql.parser.JqlQueryParser;
import com.atlassian.query.Query;
import com.decadis.jira.xchart.api.ChartParam;
import com.decadis.jira.xchart.api.util.DateUtils;
import com.decadis.jira.xchart.api.model.Period;

Logger logger = Logger.getLogger("Issues in specific status in specific period - xChart");

def dateUtil = chartBuilder.getDateUtils();
final Date now = new Date();

// evaluate the period parameter, should be "day", "week", "month", "quarter", "halfyear" or "year"
Period period = Period.fromString(Period_Param);
def countGroup = chartBuilder.newDataCollector();

// Helper class to check if one period of time overlaps another
public class Timespan {
    final static Date now = new Date();

    // Initializer for fix timespans, e.g. last month => period = MONTH, offset = -1
    public Timespan(DateUtils dateUtil, Period period, int offset) {
        start = dateUtil.getStartOfPeriodN(now, period, offset).getTime();
        end = dateUtil.getStartOfPeriodN(now, period, offset + 1).getTime();
    }

    public Timespan(Date start, Date end) {
        this.start = start;
        this.end = end;
    }

    public Date start;
    public Date end;

    // check if timespan overlaps
    public boolean overlap(Timespan other) {
        return start.compareTo(other.end) <= 0 && other.start.compareTo(end) <= 0;
    }
}

// number of periods
final int nrIntervals = Integer.valueOf(Periods_Param);

Timespan[] intervals = new Timespan[nrIntervals];

def dateFormat = dateUtil.getDateformat("yyyy - MM");

def status = ComponentAccessor.getComponent(StatusManager.class).getStatus(Status_Param);
def statusName = status == null ? "none" : status.getNameTranslation();

// initialize the count group
for ( int i = 0; i < intervals.length; ++i ) {
    intervals[i] = new Timespan(dateUtil, period, i - intervals.length + 1);
    countGroup.addValue(BigDecimal.ZERO, dateFormat.format(intervals[i].start), "Status: " + statusName);
}

// JQL param to choose issues
String jql = Jql_Param

logger.debug("JQL=" + jql);

JqlQueryParser jqlQueryParser = ComponentAccessor.getComponent(JqlQueryParser.class);
Query query = null;

```

```

try {
    query = jqlQueryParser.parseQuery(jql);
} catch (JqlParseException e) {
    logger.warn("Bad JQL:" + jql, e);
    throw new IllegalArgumentException("Bad JQL: " + jql);
}

// for evaluation of issue history
ChangeHistoryManager changeHistoryManager = ComponentAccessor.getChangeHistoryManager();

// to get the average. issue in progress count divided by the number of group members
def users = (double)ComponentAccessor.getGroupManager().getUsersInGroupCount(Group_Param);
def v = BigDecimal.valueOf(users != 0.0 ? 1.0/users : 0.0);

logger.info("users in group " + Group_Param + " = " + users)

// helper array to count issues only once in a period
boolean[] values = new boolean[intervals.length];

// reset the helper array
for(int i = 0; i<values.length; ++i) {
    values[i] = false;
}

// iterate over the issues
for ( Issue issue : chartBuilder.getFilterUtils().performSearch(query, user) ) {

    Date since = null;
    Date until = now;

    // iterate over the issue change history of the status field
    for ( ChangeItemBean item : changeHistoryManager.getChangeItemsForField(issue, "status") ) {

        // when the status changes from the SOI to another we have to look which periods machtes...
        if ( item.getFrom().equals(Status_Param) && !item.getTo().equals(Status_Param) ) {

            // special case if the SOI is the initial status of an issue
            if ( since == null ) {
                since = issue.getCreated();
            }

            until = item.getCreated();

            // search overlapping periods
            for ( int i = 0; i<values.length; ++i ) {
                if ( intervals[i].overlap(new Timespan(since, until)) ) {
                    values[i] = true;
                }
            }
            // issue is no longer in SOI so reset since timestamp
            since = null;
        }
        // when issue changes from another state to SOI, the period begins
        if ( item.getTo().equals(Status_Param) && !item.getFrom().equals(Status_Param) ) {
            since = item.getCreated();
        }
    }

    // special case if issue is still in SOI
    if ( since != null || issue.getStatusId().equals(Status_Param) ) {
        logger.debug("status = " + issue.getStatusId())
        if ( since == null ) {
            since = issue.getCreated();
        }
        for ( int i = 0; i<values.length; ++i ) {
            if ( intervals[i].overlap(new Timespan(since, now)) ) {
                values[i] = true;
            }
        }
    }
}

```

```

// add the pre-computed value to the periods in which the issue was in SOI
for(int i = 0; i<values.length; ++i) {
    if(values[i]) {
        countGroup.addValue(v, dateUtil.getPeriodName(intervals[i].start,period), "Status: " +
statusName);
        values[i]=false
    }
}

def chartData = chartBuilder.newChartData("Time");

chartBuilder.getChartUtil().transformResult(countGroup, chartData, true);

return chartData

```



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