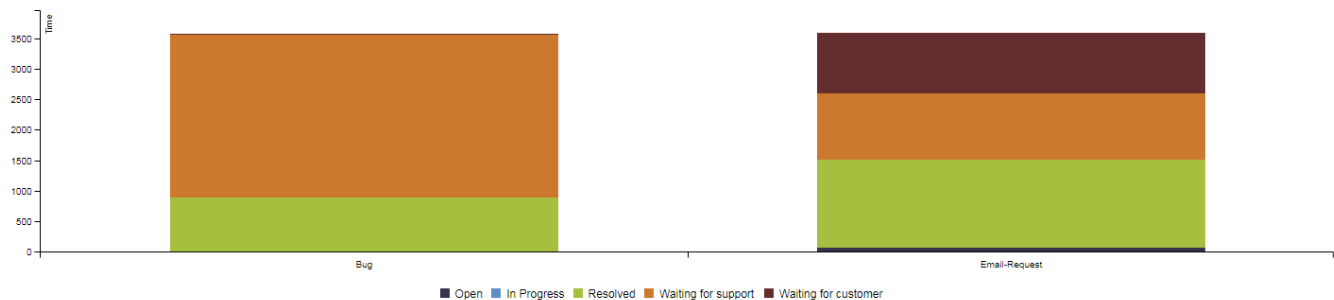


Time in status (By issue attribute)

The **time in status** shows the accumulated time of issues chosen via JQL in a specific status. Additional grouping is possible on the Y axis, by using the GroupBy Parameter.

Grouping by None will display the overall time in Status for the issues chosen via JQL.

Chart preview



Parameters

Parameter		Type	Default value
UI	Code		
JQL	JQL	JQL Autocomplete	
Group By	Group	Group By Picker	Issue Type

Layout Script

Used layout: [Easy Group By](#)

```

function formatTooltipAsHours(value, ratio, id, index)
{
    return value.toFixed(2) + ' h';
}

function formatTooltipAsHoursWithDays(value, ratio, id, index)
{
    var hours = parseInt(value);
    var days = parseInt(hours / 24);
    value = value - days * 24;
    if (days > 0)
    {
        return days + 'd, ' + value.toFixed(2) + ' h';
    }
    return value.toFixed(2) + ' h';
}

var c3arg = {
    onrendered: updateFrameHeight,
    data: chartData,
    axis: {
        x: {
            type: 'category', // this is needed to load string x value
            label: {
                text: chartData.custom.xLabel,
                position: 'outer-left'
            }
        },
        y: {
            label: chartData.ytype
        }
    }
};

if (chartData.custom && chartData.custom.tooltip)
{
    var tooltipFunction = eval(chartData.custom.tooltip);
    c3arg.tooltip = {
        format: {
            value: tooltipFunction
        }
    };
}

c3.generate(c3arg);

```

Data Script

```

import java.lang.reflect.Field;
import java.math.BigDecimal;
import java.util.Arrays;
import java.util.Comparator;
import java.util.Date;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;

import org.apache.log4j.Logger;
import org.apache.lucene.document.Document;

import com.atlassian.jira.component.ComponentAccessor;
import com.atlassian.jira.config.ConstantsManager;
import com.atlassian.jira.issue.DocumentIssueImpl;
import com.atlassian.jira.issue.Issue;

```

```

import com.atlassian.jira.issue.changelog.ChangeHistoryManager;
import com.atlassian.jira.issue.history.ChangeItemBean;
import com.atlassian.jira.issue.status.Status;
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.model.ChartType;

def logger = Logger.getLogger("Time In Status Chart")
def il8nHelper = ComponentAccessor.getJiraAuthenticationContext().getIl8nHelper()

public static BigDecimal TimeDiffInHours(Date a, Date b)
{
    return BigDecimal.valueOf(((double) (Math.abs(a.getTime() - b.getTime()) / 1000)) / 3600.0d);
}

String 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();

ConstantsManager constantsManager = ComponentAccessor.getConstantsManager();

Date now = new Date();

def data = chartBuilder.newDataCollector()

def grouper = chartBuilder.getGrouper(Group);

Field documentField;
try
{
    documentField = DocumentIssueImpl.class.getDeclaredField("document");
    documentField.setAccessible(true);

    // iterate over the issues
    for ( Issue issue : chartBuilder.getFilterUtils().performSearch(query, user) )
    {
        Date since = issue.getCreated();
        Date until = now;
        String currentStatus = null;
        def groups = grouper.getGroups((Document) documentField.get(issue));

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

            // first change item -> initial status of issue is unknown
            if ( currentStatus == null )
            {
                currentStatus = constantsManager.getStatus(item.getFrom()).getNameTranslation(il8nHelper);
            }

            for ( String group : groups )
            {
                data.addValue(TimeDiffInHours(until, since), currentStatus, grouper.getResolvedValue(group, issue));
            }
        }
    }
}

```

```

        since = item.getCreated();
        currentStatus = constantsManager.getStatus(item.getTo()).getNameTranslation(i18nHelper);
    }

    // add time of current status
    until = now;
    currentStatus = issue.getStatus().getNameTranslation(i18nHelper);
    for ( String group : groups )
    {
        data.addValue(TimeDiffInHours(until, since), currentStatus, grouper.getResolvedValue(group, issue));
    }
}
} catch (Exception e)
{
    logger.error("Could not compute time in status", e);
    throw new RuntimeException(e);
}

data.fillMissingValues();

def chartData = chartBuilder.newChartData(i18nHelper.getText("xchart.charts.time"));
chartData.setType(ChartType.BAR.getKey());
chartData.addCustomData("tooltip", "formatTooltipAsHoursWithDays");
chartData.setYType(i18nHelper.getText("xchart.charts.time"));

List<String> statusOrder = new LinkedList<String>(data.keySet());

statusOrder.sort(new Comparator<String>()
{
    @Override
    public int compare(String o1, String o2)
    {
        Status ssl = constantsManager.getStatusByTranslatedName(o1);
        if ( ssl != null )
        {
            Status ss2 = constantsManager.getStatusByTranslatedName(o2);
            if ( ss2 != null )
            {
                Long s1 = ssl.getSequence();
                Long s2 = ss2.getSequence();
                return s1.compareTo(s2);
            }
        }
        return o1.compareToIgnoreCase(o2);
    }
});

chartBuilder.getChartUtil().transformResultOrdered(data, chartData, true, statusOrder.toArray(new String
[0]));

return chartData;

```

If you still have questions, feel free to refer to our [support team](#).