

# Jira Audit Results

Audit results compared on 18 Apr 2024.

Link to the Jira board: <https://btsjira.abbvie.com/secure/RapidBoard.jspa?rapidView=2602&view=planning.nodetail&issueLimit=100>

## Criteria 11

| Team /Board: 2602 | Story + Bug - Automated /Published (Days) | Story + Task - In Dev (Days) | In Dev to Ready for Functional Testing (Days) | Story Only - Dev (Days) | Story Only - In Dev to Ready for Functional Testing (Days) | Story + Bug - In Dev to Ready for Functional Testing (Days) | Story + Bug - In Dev (Days) |
|-------------------|---|------------------------------|---|-------------------------|--|---|-----------------------------|
| OCAT              | 10.4                                      | 15                           | 21  | 11                      | 14   | 10  | 11                          |
| OMYACW            | 21.17                                     | 24                           | 196   | 17                      | 139  | 131   | 6                           |
| OMYACM            | 8.43                                      | 17                           | 194   | 12                      | 138  | 128   | 3                           |
| OVVA              | 8.19                                      | 10                           | 12  | 7                       | 8  | 5   | 4                           |
| OVLT              | 11.89                                     | 11.58                        | 30  | Less than 1             | Less than 1  | 28  | Less than 1 m               |
| OICC              | 0.79                                      | Less than 1m                 | Less than 1m                                  | Less than 1             | Less than 1  | 2 min   | Less than 1 m               |
| OCRMI             | 11.24                                     | 8                            | 12  | 5                       | 8  | 8   | 3                           |
| OCRMN             | 7.97                                      | 6                            | 8   | 4                       | 5  | 4   | 3                           |

**Control Chart by Sachin:** Not looking at a single board, all issues for a particular project in a specific 60 day time frame; not excluding weekends

Tapping into Change Logs - looking at history of the change between status.

Extracting information for each issue against each issue

200 issues and looks at all issues

Note time when it was moved to "In Development" and then to "In Functional Testing"

Looking at Story and Bug only

Takes total hours of all issues transitioned and then divided by number of stories to get the average.

```
# Criteria 11: Average Transition Time for Any Status Change
issue_keys = [issue['key'] for issue in issues if issue['fields']['issuetype']['name'] in ['Story', 'Bug']]
average_transition_time = calculate_average_dev_time(issue_keys)
if average_transition_time is not None:
    criteria11_deviation = f"{average_transition_time} days"
    transition_time_condition = 'PASS' if average_transition_time <= 7 else 'FAIL'
else:
    criteria11_deviation = "N/A"
    transition_time_condition = 'PASS' # or 'PASS' based on your criteria

def calculate_average_dev_time(issue_keys):
    total_dev_time = 0
    count_of_issues_with_dev_time = 0

    for key in issue_keys:
        response = requests.get(f"{JIRA_URL}/rest/api/2/issue/{key}?expand=changelog", headers=headers, verify=False)
        if response.status_code == 200:
            data = response.json()
            changelog = data.get("changelog")

            if changelog is not None:
                histories = changelog.get("histories")
                in_development_date = None
                ready_for_testing_date = None

                for history in histories:
                    items = history.get("items")

                    for item in items:
                        if item.get("field") == "status":
                            if item.get("toString") == "In Development":
                                in_development_date = parse(history.get("created"))
```

```
if item.get("toString") == "Ready For Functional Testing" and in_development_date is not None:
    ready_for_testing_date = parse(history.get("created"))
    break
```

```
if in_development_date and ready_for_testing_date:
    # Calculate the dev time for this issue excluding weekends
    current_date = in_development_date
    dev_time = 0
    while current_date < ready_for_testing_date:
        if is_weekday(current_date):
            dev_time += 1
        current_date += datetime.timedelta(days=1)
```

```
total_dev_time += dev_time
count_of_issues_with_dev_time += 1
break
```

```
if count_of_issues_with_dev_time > 0:
    average_dev_time = total_dev_time / count_of_issues_with_dev_time
    average_dev_time = round(average_dev_time, 2)
    print(f"Average Development Time: {average_dev_time} days")
else:
    print("No valid transitions from 'In Development' to 'Ready For Functional Testing' found across all issues.")
    average_dev_time = None
```

```
return average_dev_time
```