

SAP S/4HANA Integration with JIRA

June 2020

Short presentations of Commondo ePPM solutions based on CPI which supports two type of workflows:

- **SAP PPM to Jira**
- **Jira to SAP PPM**

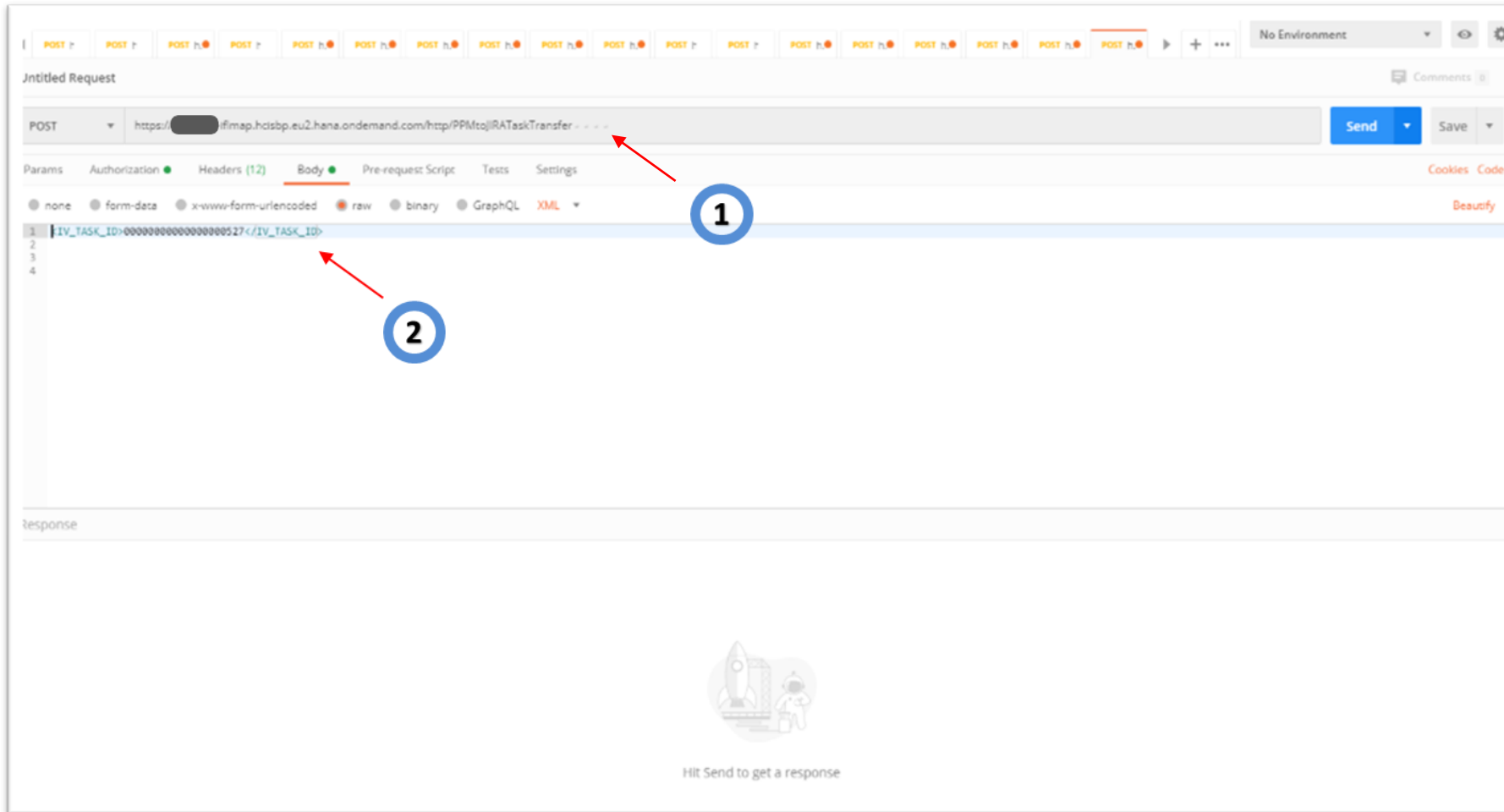




SAP PPM to Jira

- PPM to JIRA Task Worklogs Transfer integration flow updates project data from SAP to JIRA. It creates a project structure on the JIRA system and maintains it based on the changes on the SAP side.
- Steps needed to transfer task data from SAP to Jira via “PPM to JIRA Task Worklogs Transfer” (workflow will create JIRA project with structure):
 1. Create new task on S/HANA or choose an existing one.
 2. Set project and task status to “Released”.
 3. Initiate transfer
 1. Using REST client (Postman in this document) or
 2. Commondo My Tasks Fiori app extension
 4. Check changes on Jira project.

Post request through Postman (3.1)



1 Post request for initiation of “PPM to JIRA Task Worklogs Transfer” workflow.

<https://<tenant>-iflmap.hcisbp.eu2.hana.ondemand.com/http/PPMtoJIRATaskTransfer>

2 ID of a task that we want to transfer from S/4HANA to JIRA.

This info is visible in PPM project.

```
<IV_TASK_ID>  
0000000000000000000527  
</IV_TASK_ID>
```

IFlow response message (3.1)

The screenshot displays an HTTP client interface for an 'Untitled Request'. The request method is POST, and the URL is partially redacted. The request body is shown in raw format as `{TV_TASK_ID}>00000000000000000527</TV_TASK_ID>`. The response status is 201 Created, with a time of 6.56 s and a size of 1.04 KB. The response body is shown in JSON format, with a red box highlighting the 'issues' array:

```
Response from JIRA: {
  "issues": [
    {
      "id": "11747",
      "key": "S_00002-20",
      "self": "http://217.61.5.216:8080/rest/api/2/issue/11747"
    }
  ],
  "errors": []
}
```

Expected response:
Identification key of a Task(Epic) created on Jira.

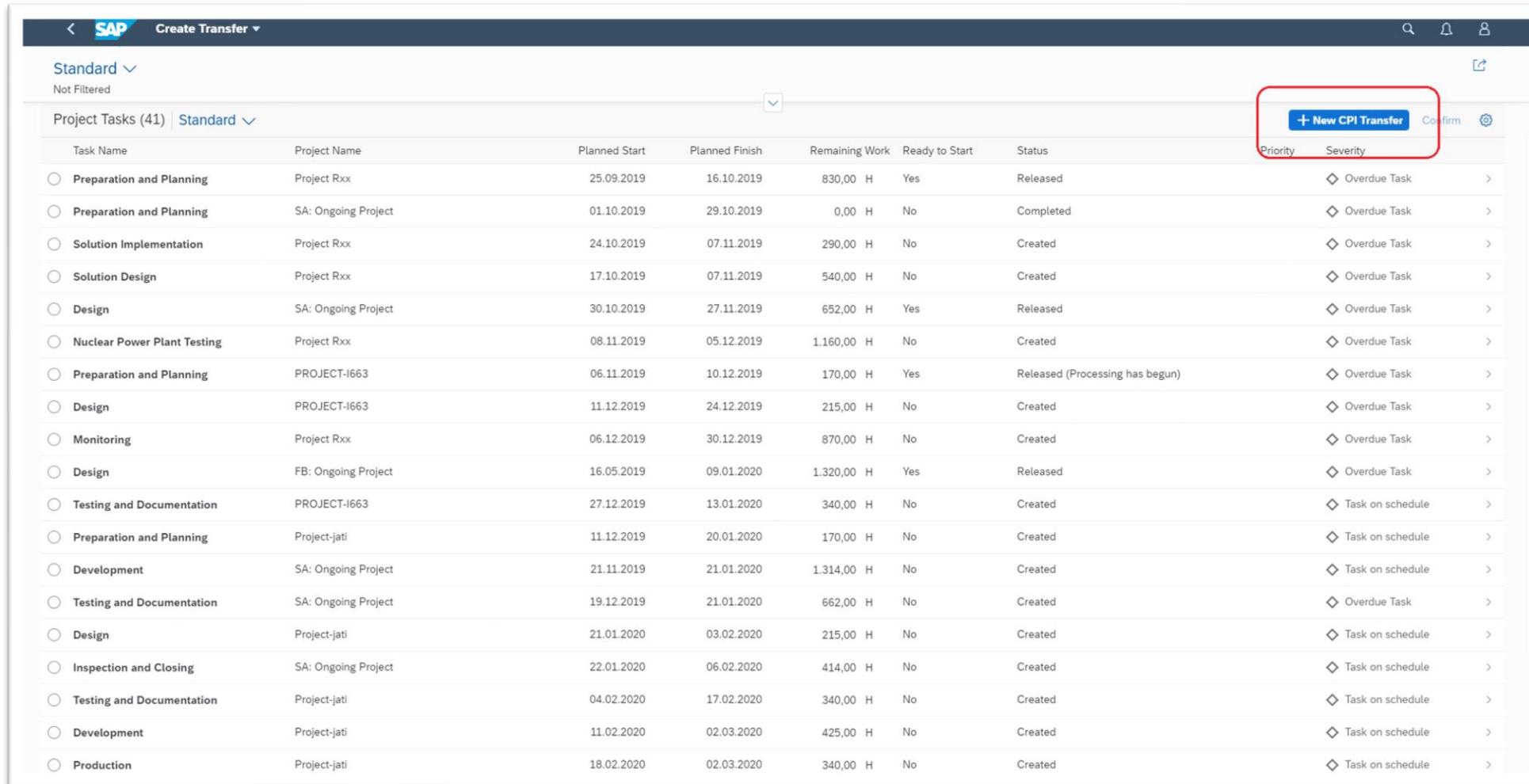
Error response:
505 internal server error.
For more info check monitoring.
More info on next slide.

Operations flow - Monitorig

The screenshot shows the SAP Cloud Platform Integration monitoring dashboard. The browser address bar indicates the URL: `tmn.hci.eu2.hana.ondemand.com/itspaces/shell/monitoring/Overview`. The dashboard is organized into several sections:

- Monitor Message Processing:** This section contains five cards. The first four cards show counts for 'All Integration Flows Past Hour': Messages (0), Failed Messages (0), Retry Messages (0), and Completed Messages (0). The fifth card contains a '+' sign. A red box highlights these five cards, with an arrow pointing to the text: "Transfers in progress and transfer results."
- Manage Integration Content:** This section contains four cards. The first card shows 'All' (15). The second card shows 'Started' (15). The third card shows 'Error' (0). The fourth card contains a '+' sign. A red box highlights these four cards, with an arrow pointing to the text: "Workflow management – deployed workflows and status".
- Manage Security:** This section contains six cards: Security Material (3 Artifacts), Keystore (7 Entries), Certificate-to-User Mappings (0 Artifacts), Access Policies (0 Artifacts), JDBC Data Sources (0 Artifacts), and Connectivity Tests.
- Manage Stores:** This section contains three cards: Data Stores, Variables, and Number Ranges.

Commodo My Tasks extension (3.2)



The screenshot displays the SAP Fiori 'Create Transfer' application interface. At the top, there is a navigation bar with the SAP logo and the title 'Create Transfer'. Below this, a filter dropdown is set to 'Standard' with 'Not Filtered' below it. The main content area shows a list of 'Project Tasks (41)' under the 'Standard' filter. A red box highlights a '+ New CPI Transfer' button in the top right corner of the task list. The table below contains the following data:

Task Name	Project Name	Planned Start	Planned Finish	Remaining Work	Ready to Start	Status	Priority	Severity
Preparation and Planning	Project Rxx	25.09.2019	16.10.2019	830,00 H	Yes	Released	Overdue Task	
Preparation and Planning	SA: Ongoing Project	01.10.2019	29.10.2019	0,00 H	No	Completed	Overdue Task	
Solution Implementation	Project Rxx	24.10.2019	07.11.2019	290,00 H	No	Created	Overdue Task	
Solution Design	Project Rxx	17.10.2019	07.11.2019	540,00 H	No	Created	Overdue Task	
Design	SA: Ongoing Project	30.10.2019	27.11.2019	652,00 H	Yes	Released	Overdue Task	
Nuclear Power Plant Testing	Project Rxx	08.11.2019	05.12.2019	1.160,00 H	No	Created	Overdue Task	
Preparation and Planning	PROJECT-I663	06.11.2019	10.12.2019	170,00 H	Yes	Released (Processing has begun)	Overdue Task	
Design	PROJECT-I663	11.12.2019	24.12.2019	215,00 H	No	Created	Overdue Task	
Monitoring	Project Rxx	06.12.2019	30.12.2019	870,00 H	No	Created	Overdue Task	
Design	FB: Ongoing Project	16.05.2019	09.01.2020	1.320,00 H	Yes	Released	Overdue Task	
Testing and Documentation	PROJECT-I663	27.12.2019	13.01.2020	340,00 H	No	Created	Task on schedule	
Preparation and Planning	Project-jati	11.12.2019	20.01.2020	170,00 H	No	Created	Task on schedule	
Development	SA: Ongoing Project	21.11.2019	21.01.2020	1.314,00 H	No	Created	Task on schedule	
Testing and Documentation	SA: Ongoing Project	19.12.2019	21.01.2020	662,00 H	No	Created	Overdue Task	
Design	Project-jati	21.01.2020	03.02.2020	215,00 H	No	Created	Task on schedule	
Inspection and Closing	SA: Ongoing Project	22.01.2020	06.02.2020	414,00 H	No	Created	Task on schedule	
Testing and Documentation	Project-jati	04.02.2020	17.02.2020	340,00 H	No	Created	Task on schedule	
Development	Project-jati	11.02.2020	02.03.2020	425,00 H	No	Created	Task on schedule	
Production	Project-jati	18.02.2020	02.03.2020	340,00 H	No	Created	Task on schedule	

Commodo has extend standard my tasks Fiori app to enable transfers trigger from user environment.

Jira project – after transfer (4)

The screenshot shows a Jira issue page for 'Task for test case scenario' (ID: S_00002-20). The issue is of type 'Epic' with a 'Medium' priority and 'Unresolved' status. The 'Details' section shows the epic name and SAP ID. The 'Description' section is empty. The 'Issues in Epic' section shows no linked issues. The 'Activity' section shows no comments. The 'People' section shows the assignee and reporter as 'Administrator'. The 'Dates' section shows the issue was created and updated 1 minute ago. The 'Agile' section has a 'View on Board' link. The 'HipChat discussions' section has a 'Connect' button and a 'Dismiss' button.

- New Task(Epic) on Jira.
- Epic is used as aggregation element for time logs from **all Tasks (Issues) that are linked to him.**

Jira to SAP PPM

- JIRA to PPM Task Worklogs Transfer integration flow updates project data from JIRA to SAP. The main goal of the workflow is to update planned and actual data aggregated on JIRA and transfer it to SAP PPM Task.
- Steps needed to transfer task data from JIRA to PPM via “JIRA to PPM”:
 1. PPM project status needs to be “Released”.
 2. JIRA Epic created by PPM to JIRA transfer (this is required because of SAP metadata)
 1. Tasks with logged time connected to this Epic
 3. Initiate transfer
 1. Using REST client (Postman in this document)
 2. Commodo My Tasks Fiori app extension
 4. Check new data in PPM project.

Jira project with new issues

This screenshot shows the Jira issue S_00002-23, titled "Jira-Task1". The issue is a Task with a Medium priority and an OPEN status. It is linked to the "Task for test case scenario" epic. The time tracking section, highlighted with a red box and a blue circle containing the number 1, shows the following data:

Category	Value
Estimated	5w
Remaining	2d 4h
Logged	4w 2d 4h

Here we can see two new issues added to a “Task for test case scenario” epic.

- 1 Logged, estimated and remaining time for a Jira-Task1 issue.
 - Estimated: 5w
 - Confirmed time: 4w 2d 4h
- 2

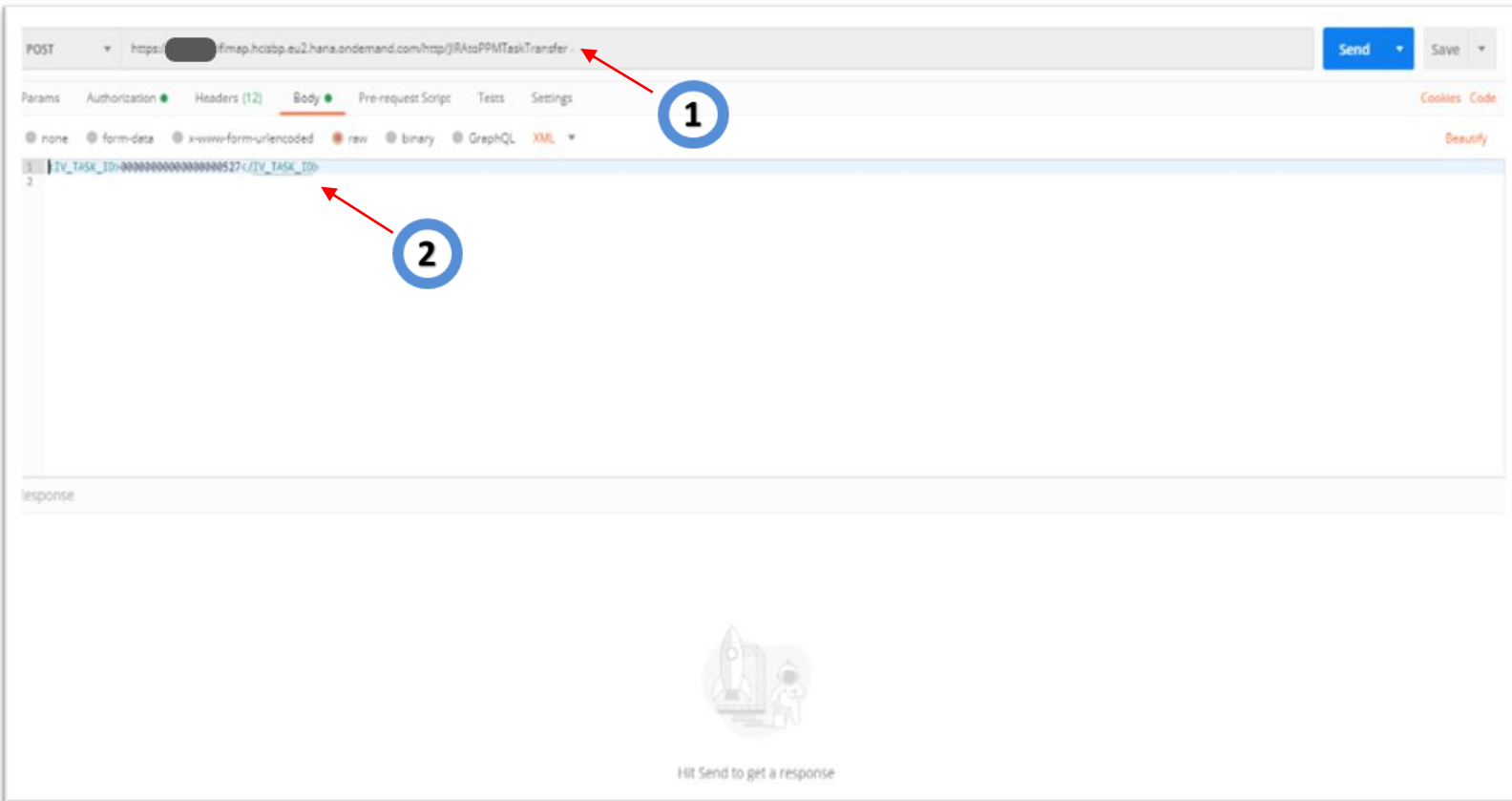
This screenshot shows the Jira issue S_00002-24, titled "Jira-Task2". The issue is a Task with a Medium priority and an OPEN status. It is linked to the "Task for test case scenario" epic. The time tracking section, highlighted with a red box and a blue circle containing the number 2, shows the following data:

Category	Value
Estimated	5w
Remaining	1w 4d
Logged	3w 1d

Logged, estimated and remaining time for a Jira-Task2 issue.

- Estimated: 5w
- Confirmed time: 3w 1d

Post request through Postman



1 Post request for initiation of “JIRA to PPM Task Worklogs Transfer” workflow.

<https://<tenant>-iflmap.hcisbp.eu2.hana.ondemand.com/http/JIRAtoPPMTaskTransfer>

2 ID of a task that we want to transfer from Jira to S/4HANA.

This info is visible in PPM project.

```
<IV_TASK_ID>  
00000000000000000000000527  
</IV_TASK_ID>
```

PPM Project - after transfer

The screenshot shows the 'Task for test case scenario' details in Primavera P6. The 'Work' field is highlighted with a red box and a callout '1'. The 'Confirmed Work' and 'Remaining Work' fields are highlighted with a red box and a callout '2'. The 'Work' field is set to 400 hours. The 'Confirmed Work' field is set to 308 hours. The 'Remaining Work' field is set to 92 hours. The 'Duration' field is set to 0 days. The 'Total Float' field is set to 16 days. The 'Percent Completion' field is set to 000%.

1 Planned work was changed.
New value is 400h (10w).
This value is accumulated from 2 Jira Tasks:

- Jira-Task1
 - Estimated time = 5w (5d*8h = 200h)
- Jira-Task2
 - Estimated time = 5w (5d*8h = 200h)

2 Confirmed work is also transferred.
Confirmed = 4w 2d 4h + 3w 1d = 7w 3d 4h
= (7w · 5d · 8h) + (3d · 8h) + 4h = 280h + 24h + 4h = 308h