

xTwins User Guide

Atlassian Integrator Documentation

(Jira, Confluence, Xray)

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1. Introduction

1.1. Purpose of the Documentation

This document aims to provide a comprehensive guide for the utilization of the xTwins application through the Atlassian Workspace. It is designed to help clients integrate their Jira instances with our system, by enabling seamless usage of our xTwins functionalities through our xTwins Atlassian Integrator middleware.

1.2. Overview of the Integrator

The xTwins Atlassian Integrator acts as a bridge between your Jira/Confluence/Xray instance and our AI-powered application. It processes incoming requests from Jira, processes the requests, communicates with xTwins application to perform AI-based operations, and provides appropriate feedback in client's Jira.

2. Prerequisites

2.1. Supported Jira Versions

The xTwins Atlassian Integrator supports the following Jira versions:

- Jira Cloud

2.2. Integrator Tools

The xTwins Atlassian Integrator interacts with a set of different tools associated with the Atlassian Workspace, such as:

- Jira



- Confluence (Optional)
- Xray (Optional)

Each tool may require additional configurations during the integrator setup process in the application.

3. Quickstart

3.1. Jira Access Configuration

The xTwins Atlassian Integrator requires access to client's jira instance to operate. The client must specify the Jira instance it wants to interact with and configure access to it by providing the following information:

- **jira_type**: Specifies the kind of Jira instance (Supported Values: Cloud, Data Center).
- **jira_url**: Specifies the URL or domain of client's Jira instance.
- **jira_username**: Represents the email address or username used to authenticate.
- **jira_token**: A secret token that is used to authenticate requests to Jira.

Note: The information required above is sensitive and should only be provided inside the xTwins application integration setup process or in direct contact with our support team.

3.2. Confluence Access Configuration (Optional)

The xTwins Atlassian Integrator can be configured to support access to client's Confluence instance. In order to grant access to Confluence, clients are asked for the following information:

- **confluence_url**: Specifies the URL or domain of client's Confluence instance.

3.3. Xray Access Configuration (Optional)

Similar to Confluence, xTwins Atlassian Integrator can be configured to operate with client's Xray. The client should provide the following information in order to configure the required access:



- **xray_region:** Identifies the region where xray data is placed.
- **xray_client_id:** A unique identifier representing your application or client.
- **xray_client_secret:** A confidential string that acts as a **password** to authenticate your client_id

Note: The information required above is sensitive and should only be provided inside the xTwins application integration setup process or in direct contact with our support team.

3.4. Testing the Integration

After completing the necessary configurations to ensure access to the tools described earlier, the client can validate their setup and confirm that access has been correctly configured using the API Integration endpoints. Further details on the usage of the mentioned endpoints can be found in section [Integration Endpoints](#).

4. API Endpoints

- xTwins **Public API Base URL:** <https://papi.x-twins.ai>

4.1. Overview of the Endpoints

Endpoint	Method	Description
/jira/api/health_check	GET	Verify if the system is up and running.
/jira/api/v1/integration/jira	POST	Tests access to configured client's Jira.
/jira/api/v1/integration/confluence	POST	Tests access to configured client's Confluence.
/jira/api/v1/integration/xray	POST	Tests access to configured client's Xray.
/jira/api/v1/genai/execute_prompt	POST	Creates a new conversation with an agent and sends the initial message.
/jira/api/v1/genai/execute_improvement	POST	Allow improvements on ongoing conversation by incorporating client's feedback.
/jira/api/v1/genai/confirm_output	POST	It validates the agent-generated output and subsequently initiates the creation of the resources derived from the final output.
/jira/api/v1/projects/upload_context_file	POST	Updates your project's context files used by AI agents.

4.2. Token-based Authentication

The client needs to provide valid authentication in the majority of the requests sent to the xTwins Atlassian Integrator API. You can check which endpoints require authentication in the endpoint individual docs. Client authentication is achieved by:



- **Adding 'x-api-key' header:** Requests must contain a 'x-api-key' header where value should be an organization-unique key that can be generated and managed inside xTwins application Administrator panel. This token is confidential and should be stored securely.

4.3. Health Check Endpoint

The Health Check endpoint serves to monitor the health status of the application.

❖ GET /jira/api/health_check

GET /jira/api/health_check

Description: Used to check the status of xTwins Atlassian Integrator.

Requires Authentication: No

Returns:

Code	Description
200	App is healthy and running
503	Service is currently unavailable

4.4. Integration Endpoints

The Integration endpoints allow clients to test their third party tools configuration assuring that the xTwins Atlassian Integrator has access to client's Atlassian workspace.

❖ POST /jira/api/v1/integration/jira

POST /jira/api/v1/integration/jira

Description: Used to verify connection between xTwins Atlassian Integrator and client's Jira.

Requires Authentication: Yes

Request Headers:

- x-api-key: Client's unique API key

Returns:

Code	Description
200	Access to Jira verified successfully.
401	Unable to access Jira.
403	You need to configure your Jira integrator.

❖ POST /jira/api/v1/integration/confluence

**POST**`/jira/api/v1/integration/confluence`

Description: Used to verify connection between xTwins Atlassian Integrator and client's Confluence.

Requires Authentication: Yes

Request Headers:

- `x-api-key`: Client's unique API key

Returns:

Code	Description
200	Access to Confluence verified successfully.
401	Unable to access Confluence.
403	You need to configure your Jira integrator.

❖ `POST /jira/api/v1/integration/xray`

POST`/jira/api/v1/integration/xray`

Description: Used to verify connection between xTwins Atlassian Integrator and client's Xray.

Requires Authentication: Yes

Request Headers:

- `x-api-key`: Client's unique API key

Returns:

Code	Description
200	Access to Xray verified successfully.
401	Unable to access Xray.
403	You need to configure your Jira integrator.

4.5. GenAI Endpoints

The GenAI endpoints enable clients to perform AI-related operations, ensuring seamless communication and interaction with xTwins AI-based agents and remaining functionalities.

❖ `POST /jira/api/v1/genai/execute_prompt`

POST`/jira/api/v1/genai/execute_prompt`

Description: Enables the initiation of a new conversation with AI-based agents.

Requires Authentication: Yes



Request Headers:

- x-api-key: Client's unique API key

Request Payload:

REQUEST BODY SCHEMA: application/json

issueKey

required

string

The key of Jira issue that is being used to communicate with AI-based agent.

projectKey

required

string

The key of Jira project that the issue belongs to.

project

required

string

The name of the client's project configured in xTwins application.

agentUuid

required

string

Unique string that identifies the AI-based agent that is being called. String format: agent_{agent_name}V{agent_version}

Returns:

Code	Description
200	Prompt executed successfully
400	No version found for agent provided in agentUuid
401	No valid authentication provided
403	You need to configure your Jira integrator.
404	No Jira project found.
404	No project found.
404	No issue found.
404	No organization found.

❖ POST /jira/api/v1/genai/execute_improvement

POST

/jira/api/v1/genai/execute_improvement

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Description: Enables the continuation of an ongoing conversation with AI-based agents.

Requires Authentication: Yes

Request Headers:

- x-api-key: Client's unique API key

Request Payload:



REQUEST BODY SCHEMA: application/json

issueKey required	string The key of Jira issue that is being used to communicate with AI-based agent.
projectKey required	string The key of Jira project that the issue belongs to.
project required	string The name of the client's project configured in xTwins application.
agentUuid required	string Unique string that identifies the AI-based agent that is being called. String format: agent_{agent_name}V{agent_version}
message required	string The improvement message to add to ongoing conversation with agent

Returns:

Code	Description
200	Message sent successfully
400	No version found for agent provided in agentUuid
401	No valid authentication provided
403	You need to configure your Jira integrator.
404	No Jira project found.
404	No project found.
404	No issue found.
404	No organization found.

❖ **POST** /jira/api/v1/genai/confirm_output

POST

/jira/api/v1/genai/confirm_output

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Description: Confirms an AI-agent generated output as ready to be decomposed in Atlassian resources in the client’s workspace.

Requires Authentication: Yes

Request Headers:

- x-api-key: Client's unique API key

Request Payload:



REQUEST BODY SCHEMA: application/json

issueKey required	string The key of Jira issue that is being used to communicate with AI-based agent.
projectKey required	string The key of Jira project that the issue belongs to.
agentUuid required	string Unique string that identifies the AI-based agent that is being called. String format: agent_{agent_name}V{agent_version}
commentId required	string The ID of the Jira comment, belonging to the issue specified in issueKey, that contains the final response from the AI-based agent.

Returns:

Code	Description
200	Output confirmed successfully.
400	Content of Jira comment provided does not match required format.
401	No valid authentication provided
403	You need to configure your Jira integrator.
404	No Jira project found.
404	No project found.
404	No issue found.
404	No organization found.
404	No comment found.

4.6. Projects Endpoints

The Projects endpoints should be used to perform project-related operations, providing a mechanism to manage configurations and files of client's projects.

❖ POST /jira/api/v1/projects/upload_context_file

POST /jira/api/v1/projects/upload_context_file



Description: Uploads a set of files that are further used by AI-based agents to get context of the working project.

Requires Authentication: Yes

Request Headers:

- x-api-key: Client's unique API key

Request Payload:



REQUEST BODY SCHEMA: application/json

issueKey required	string The key of Jira issue that is being used to communicate with AI-based agent.
projectKey required	string The key of Jira project that the issue belongs to.
project required	string The name of the xSapiens project that the files should be attached to.

Returns:

Code	Description
200	Project context updated
400	Provided files are not supported.
401	No valid authentication provided
403	You need to configure your Jira integrator.
404	No Jira project found.
404	No project found.
404	No issue found.
404	No organization found.
404	The list of files was empty.

5. Frequently Asked Questions (FAQs)

We will continuously update this FAQ section with the most commonly asked questions and insights from our clients to better support your needs.



6. Support and Contact Information

For further assistance, please contact our support team through our service desk system:

- <https://support.jira.ritain.io/servicedesk/customer/user/login?destination=portals>