
title: REST APIs weight: 10

Watson Assistant Solutions provides the following REST APIs:

- [Conversation REST API](#) - Converse with individual skills or skillsets (assistants).
- [Knowledge \(alpha\) REST API](#) - Add proactivity to your assistants.
- [Context REST API](#) - Save contextual information such as user location.
- [Profile REST API](#) - Save user profile information such as email addresses.
- [Things REST API](#) - Register client devices and group them into entities. View entitlements and usage information for your tenant.

Use the REST APIs of the Watson Assistant Solutions components to interact with your assistants.

The Conversation component

Use the Conversation REST API to converse with your assistant.

Use it to add skills to your tenant. Group your skills into skillsets. Each skillset represents a single assistant. Converse with individual skills or skillsets. Monitor the status of skills.

Alternatively, complete the same task from the Watson Assistant Solutions console UI. Click **Skills** and follow the on-screen prompts.

For information about creating custom skills, see [Adding a custom skill](#).

The baseURL is:

<https://watson-personal-assistant-toolkit.mybluemix.net/v2/api>

The API endpoints are as follows:

Common Use

- `POST /skillSets/{skillSetName}/converse`: Converse with all skills in a specific skillset.
- `POST /skills`: Add a skill.
- `POST /skillSets`: Create a skillset.
- `PUT /skillSets/{skillSetName}`: Add one more skill to a skillset.

Converse

- `POST /skillSets/{skillSetName}/converse`: Converse with all skills in a specific skillset.
- `POST /converse`: Converse with all skills in your tenant.
- `POST /skills/{skillName}/converse`: Converse with a specific skill.

Skills

- `GET /skills`: View a list of skills.
- `POST /skills`: Add a custom skill to your tenant.

- **GET /skills/{skillName}**: View a description of the skill. The description includes information from the manifest file of the skill.
- **PUT /skills/{skillName}**: Update the manifest file details of a skill.
- **DELETE /skills/{skillName}**: Remove a skill from your tenant.
- **PUT /skills/{skillName}/version**: View the version of a skill.
- **PUT /skills/{skillName}/refresh**: Refresh the description of the skill. Refresh the skill after you update the manifest file, nlu definitions, or intents that are used by the skill.

SkillSets

- **GET /skillSets**: View a list of skillsets and the skills that are associated with each.
- **POST /skillSets**: Create a skillset.
- **GET /skillSets/{skillSetName}**: View a list of all skills that are associated with a specific skillset.
- **PUT /skillSets/{skillSetName}**: Add one or more skills to a skillset.
- **DELETE /skillSets/{skillSetName}**: Delete a skillset.

SkillSets-Skills Links

- **GET /skills/{skillName}/skillSets**: View the list of skillsets that a specific skill is associated with.
- **POST /skills/{skillName}/skillSets**: Associate a skill with multiple skillsets.
- **GET /skillSets/{skillSetName}/links/{skillName}**: View the link between a specific skill and a specific skillset. Use to view whether this skill is the fallback skill for the skillset.
- **PUT /skillSets/{skillName}/links/{skillName}**: Update the link between a specific skill and a specific skillset. Use to specify whether this skill is the fallback skill for the skillset.
- **DELETE /skillSets/{skillName}/links/{skillName}**: Remove a skill from a skillset.

Health

- **GET /skills/{skillName}/health**: Check the health of a specific skill. See whether the skill is **down** or **available**.
- **GET /skills/{skillSetName}/health**: Check the health of all skills in a specific skillset. See whether each skill is **down** or **available**.

The Knowledge and Reasoning component (Alpha)

Use the Knowledge REST API to add proactivity to your assistant.

For information about the knowledge and reasoning capability, see [Knowledge and reasoning overview](#)

The baseURL is:

<https://watson-personal-assistant-toolkit.mybluemix.net/v2/api/default/>

The API endpoints are as follows:

- **GET /knowledge/heartbeat**: Check the health of the Knowledge and reasoning component.

- **GET /knowledge/message-hub-credentials**: Get the credentials for subscribing to the Message Hub. This endpoint is required if you are not using the Knowledge SDK.
- **POST /knowledge/object**: Create a knowledge object. For example, create an object of type **person**.
- **DELETE /knowledge/object/{objectID}**: Delete a specific object.
- **GET /knowledge/object/{objectID}**: View the attributes of a specific object.
- **PUT /knowledge/object/{objectID}**: Update the attributes of a specific object.
- **GET /knowledge/object/{objectID}/{direction}**: View all objects that are related to a specific object. Optionally, specify the relationship type and traverse direction (in or out).
- **POST /knowledge/query**: View a list of objects of a specific type, for example, **person**. The following query returns all person objects:

```
{
  "filters": {},
  "type": "Person"
}
```

- **GET /knowledge/relation/**: Returns information about all relations that are created in the knowledge store, and includes the relation IDs.
- **POST /knowledge/relation**: Create a relationship between two objects. Relationships have a direction. Specify the ID of the *from* object and the ID of the *to* and specify the type of relationship. A relation object is created.
- **DELETE /knowledge/relation/{relationID}**: Delete a relationship between two objects. Specify the relation ID.

The Context component

Use the Context REST API to modify context information that is stored for a user. Use it to add or update session context and skill context information that is saved within a user session. For information about the skill and session context, see the [What are skills?](#) topic.

Alternatively, use the skill SDK to add and update skill and session context information. For more information, see the [Enhancing the conversation context](#)

The baseURL is:

<https://watson-personal-assistant-toolkit.mybluemix.net/v2/api/context>

The API endpoints are as follows:

Health

- **/healthcheck**: Check the health of the Context REST API component.

Context

- **GET /{userID}**: View session context information for a specific user.
- **PUT /{userID}**: Add session or skill context information or both for a specific user.

In the following example, the part of weather updates that the user is most interested in is the temperature. This interest is saved in the skill context and is available to all calls to the weather skill during the conversation with the user.

The user has shown particular interest in the city center. This interest is saved in the session context and is available to skills during the conversation with the user.

```
{
  "skill": {
  },
  "session": {
    "id": "session-001",
    "new": true,
    "skill": {
      "attributes": {
        "weather-interest": "temperature",
        "inConversation": false
      }
    },
    "attributes": {
      "zone": "city-center"
    },
    "version": "1.0"
  }
}
```

- **DELETE** `/ {userID}` Delete session and skill context information for a specific user.
- **GET** `/ {userID}/ {skillName}` View skill context information for a specific user and skill.
- **PUT** `/ {userID}/ {skillName}` Add skill context information for a specific user and skill.
- **DELETE** `/ {userID}/ {skillName}` Delete skill context information for a specific user and skill.

The Profile component

Use the Profile REST API to store profile information for a user. Currently, profile information is limited to email addresses and phone numbers.

The baseURL is:

<https://watson-personal-assistant-toolkit.mybluemix.net/v2/api/profile>

The API endpoints are as follows:

- **GET** `/email/ {userID}`: View all of the email addresses of a user, for example, work email, personal email.
- **DELETE** `/email/ {userID}`: Delete all email addresses that are associated with a user.
- **GET** `/email/ {userID}/ {name}`: View a specific type of email address for a user, for example, work email.
- **DELETE** `/email/ {userID}/ {name}`: Delete a specific type of email address for a user, for example, work email.

- **POST /email/{userID}/{name}**: Add a specific type of email address for a user, for example, work email.
 - **PUT /email/{userID}/{name}**: Update a specific type of email address for a user, for example, work email.
 - **GET /phone/{userID}**: View the phone number of a user by phone type, for example, work phone, home phone,
 - **DELETE /phone/{userID}**: Delete all phone numbers associated with a user.
 - **GET /phone/{userID}/{name}**: View all of the phone numbers of a user, for example, work phone, mobile phone.
 - **DELETE /phone/{userID}/{name}**: Delete a specific type of phone number for a user, for example, work phone.
 - **POST /phone/{userID}/{name}**: Add a specific type of phone number for a user, for example, work phone.
 - **PUT /phone/{userID}/{name}**: Update a specific type of phone number for a user, for example, work phone.
 - **/healthcheck**: Check the health of the profile component.
-

The Things component

Use the Things API to manage the usage plans for your client devices, for example, speakers, smart devices.

Client devices are grouped into entities. You might have an entity that is called 'hotel room' and with three clients; a television, camera, and audio speaker.

If you have a paid account, your tenant is associated with a plan entitlement. Each plan is entitled to a specific number of entities or digital interactions, or both per month.

Register your client devices and group the clients into entities. View your entitlements and usage per month.

Alternatively, click Clients on the console to manage your clients. Click Manage Usage to view entitlements and usage. For instructions, see [Tracking your service usage](#).

The baseURL is:

<https://watson-personal-assistant-toolkit.mybluemix.net/v2/api/things>

The API endpoints are as follows:

Client

- **GET /clients/{clientID}**: View details of a specific client device.
- **PUT /clients/{clientID}**: Update the details of a specific client device, for example, password.
- **GET /clients**: View a list of all client devices.
- **POST /clients**: Add one or more client devices.
- **DELETE /clients**: Delete one or more clients.

Entity

- `GET /entities/{entityID}`: View details of a specific entity.
- `GET /entities/`: View a list of all entities.
- `POST /entities/`: Add one or more entities.
- `DELETE /entities`: Delete one or more entities.
- `GET /entities/{entityID}/links`: View all clients that are associated with a specific entity.
- `POST /entities/{entityID}/links`: Associate clients with a specific entity.
- `DELETE /entities/{entityID}/links`: Remove the association between one or more clients and a specific entity.

Entitlement

- `GET /entitlement`: View the plan entitlements for your tenant.

Usage

- `GET /usage`: View service usage details for your tenant within a specific date range. Usage information includes the number of entities and the number of interactions that are used within the period.
- `GET /detailusage`: View detailed usage of the service for your account a specific date range. Usage information includes the number of entities and the number of interactions per month within the period.

Health

- `GET /healthcheck`: Check the health of the Things component.

Note

- The Rules component (alpha) is deprecated.
- Audio clients use an [audio streaming interface](#) to communicate with the audio gateway component of Watson Assistant Solutions. The sample audio clients implement this interface. The Conversation REST API is used for communication between the audio gateway, the routing core, and skills.