

Passenger Wait Times

Airports Council International (ACI) has developed a standard for expressing Passenger Wait Times for the aviation community. The initiative is part of the ACI ACRIS (Aviation Community Recommended Information Services) working group.

There are four Passenger Queue Wait Time metrics available:

- Occupancy:** The count of people in the queue. The unit of measure is number of people. This metric is updated every five minutes.
- Projected Wait Time:** The estimated time that a person entering the queue can expect to wait. The unit of measure is seconds. Estimates are updated every five minutes.
- Throughput:** The average number of passengers processed over the past hour. The unit of measure is passengers per hour. This metric is updated every five minutes.
- Wait Time:** The duration that a person exiting the queue has experienced. The unit of measure is seconds. The amount represents the average number of seconds experienced by people exiting the queue in the last five minutes. This metric is updated every five minutes.

This document contains the specification of the API (Application Programming Interface), which has been developed as part of this initiative.

Wait Times API Specification

The following API specification is compliant with the OpenAPI standard v3.0.1, and with the ACRIS Semantic Model.

The ACI Wait Times API supports requests for the following information:

Request	Purpose
Checkpoint Facilities	Retrieve information on Passenger Checkpoints at a specific Airport.
Passenger Queues	Retrieve information on Passenger Queues at a specific Airport.
Queue Measurements	Retrieve information on the wait times of Passenger Queues at a specific Airport.

Information on Checkpoint facilities can be obtained, either as a list of checkpoints in the selected airport, or for a particular checkpoint specified by a UUID, using the following GET requests:

Checkpoint Facilities paths	Result
/aci/airports/{Airport ICAO Code}/checkpoints	Returns all of the security Checkpoints at the Airport specified by ICAO Code grouped by Terminal.
/aci/airports/{Airport ICAO Code}/checkpoints/{Checkpoint UUID}	Returns a specific Checkpoint identified by Checkpoint UUID.

Information on Passenger Queues can be obtained as a list of queues in the selected airport, or for a specific checkpoint, or for a particular queue specified by a UUID, using the following GET requests:

Passenger Queues paths	Result
/aci/airports/{Airport ICAO Code}/queues	Returns all of the Passenger Queue(s) at the Airport specified by ICAO Code grouped by Checkpoint.
/aci/airports/{Airport ICAO Code}/checkpoints/{Checkpoint UUID}/queues	Returns all of the Passenger Queue(s) at the specified Checkpoint.
/aci/airports/{Airport ICAO Code}/checkpoints/{Checkpoint UUID}/queues/{Queue UUID}	Returns the specific Passenger Queue at the specified Checkpoint.

Information on the four Passenger Queue measures can be obtained as a list of entries for all the queues in the selected checkpoint, or for a particular queue specified by a UUID, using the following GET requests:

Queue Measurements paths	Result
/aci/airports/{Airport ICAO Code}/checkpoints/{Checkpoint UUID}/measurements	Returns all the wait time metrics for all Passenger Queue(s) at the specified Checkpoint.
/aci/airports/{Airport ICAO Code}/checkpoints/{Checkpoint UUID}/queues/{Queue UUID}/measurements	Returns all the wait time metrics for the specific Passenger Queue at the specified security Checkpoint.