

ACI API Specification: *Checkpoint Wait Times*

New global standard for open access
to passenger queue information

Business Drivers

Better information for everyone on wait times at security checkpoints in every airport.

Better metrics for airport operators and regulators on checkpoint performance.

More accessible real-time information for all stakeholders.

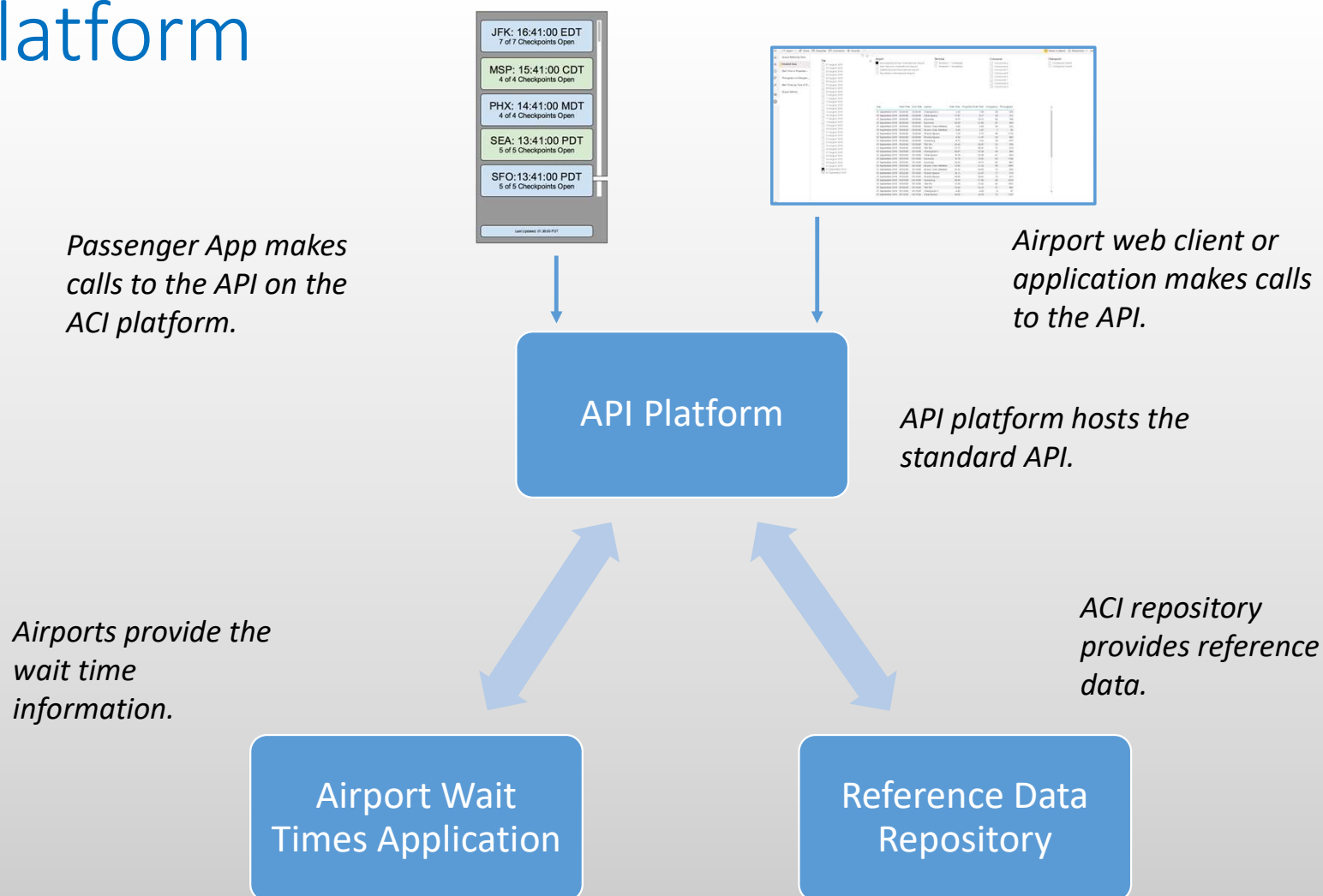
ACI API Dev Team



Available Measures

Measure	Description
Occupancy	The count of people in the queue.
Projected Wait Time	The estimated time that a person entering the queue can expect to wait.
Throughput	The average number of passengers processed over the past hour.
Wait Time	The duration that a person exiting the queue has experienced. The amount represents the average number of seconds experienced by people exiting the queue in the last five minutes.

API Platform



Reference Data – Miami International

Search Reference Data
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Events ▾
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Offerings ▾
Parties ▾
Places ▾
Plans ▾
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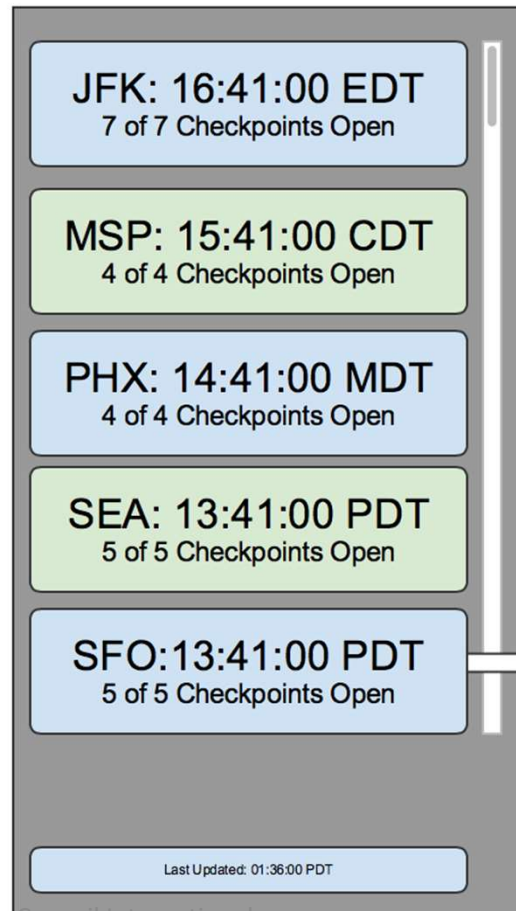
Sign Out
ACI AIRPORTS COUNCIL INTERNATIONAL
ROCKPORT SOFTWARE

Airport Details

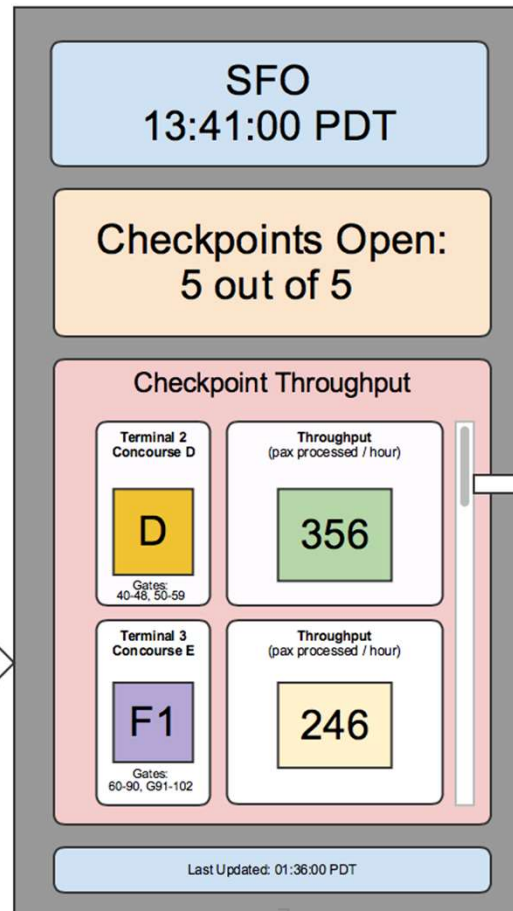
Airport Name	Miami International Airport	Copy CSV
IATA Code	MIA	
ICAO Code	KMIA	
Altitude	2.4384	
Latitude	25.79536111	
Longitude	-80.29011111	
City UN Code	USMIA	
City Description	Miami	
Country Name	United States of America (the)	
Country ISO Alpha-2 Code	US	
Subregion Name	North America	
Subregion IATA Code	NOA	
Region Name	Americas	
Region Code	AMER	

Example App

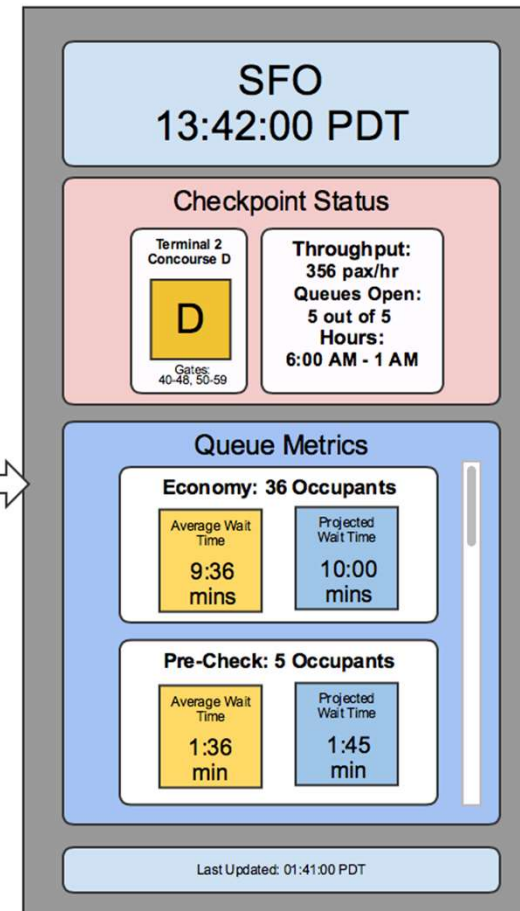
Screen 1



Screen 2



Screen 3



Airport Facility



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ACI Checkpoints API

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ACI CHECKPOINTS API

- Overview
- PATHS
 - /airports/{Airport ICAO Code}/...
- RESOURCES
 - AirportElevation
 - AirportElevationUnitOfMeasurement
 - AirportFacility**
 - AirportLocation
 - CheckPointAreaLocation
 - CheckPointFacility
 - CheckPointFacilityOperatorParty
 - CheckPointFacilityType

AirportFacility

Information about an Airport as buildings or infrastructure used to provide services.

Schema

object ^

IATACode	string	Three character IATA code for the Airport.
ICAOCode	string	Four character ICAO code for the Airport.
Name	string	Common name of the Airport.

Airport Facility -> Checkpoint Facility


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 - CheckpointFacilityType
 - ConcourseFacility
 - CurrentWaitTime
 - MeasurementDevice
 - MeasurementDeviceLocation

CheckpointFacility

Information about a Checkpoint in an Airport used to provide services. A Checkpoint facility is any facility where customers and passengers turn up and need to be processed, serviced or screened before proceeding to the next stage of their journey.

Schema

```

object ^
  CheckPointAreaLocation object ^
    The geospatial or geopolitical location of a Checkpoint.
  CheckPointFacilityOperatorParty object ^
    Information that describes the Party responsible for the operation of a Checkpoint in an Airport.
  CheckPointFacilityType object ^
    Information that describes the classification for a Checkpoint in an Airport. Values are: Security Screening, Customs
  ConcourseFacility object ^
    Information about an Airport Concourse as buildings or infrastructure used to provide services.

```

Airport Facility -> Checkpoint Facility -> Passenger Queue


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- CheckpointAreaLocation
- CheckpointFacility**
- CheckpointFacilityOperatorParty
- CheckpointFacilityType
- ConcourseFacility
- CurrentWaitTime
- MeasurementDevice
- MeasurementDeviceLocation
- MeasurementTimePeriod
- OperationTimePeriod
- PassengerProcess
- PassengerProcessType
- PassengerQueue**
- QueueLocation
- QueueMeasurement
- QueueStatus
- QueueType
- TerminalAreaLocation
- TerminalFacility
- ZoneAreaLocation

PassengerQueue

Information about the Passenger Party Queue.

Schema

object ^

CheckpointFacility	object v
Information about a Checkpoint in an Airport used to provide services. A Checkpoint facility is any facility where customers and passengers turn up and need to be processed, serviced or screened before proceeding to the next stage of their journey.	
Identifier	string
Name	string
PassengerProcess	object v
Information about the Passenger Party Process.	
QueueLocation	object v
The geospatial or geopolitical location of a Passenger Queue.	

Airport Facility -> Checkpoint Facility -> Passenger Queue -> Queue Measurement



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CheckpointAreaLocation
CheckpointFacility
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CurrentWaitTime
MeasurementDevice
MeasurementDeviceLocation
MeasurementTimePeriod
OperationTimePeriod
PassengerProcess
PassengerProcessType
PassengerQueue
QueueLocation
QueueMeasurement
QueueStatus
QueueType
TerminalAreaLocation
TerminalFacility
ZoneAreaLocation

QueueMeasurement

Information about the measurements (observations) of particular Measures of a Passenger Queue.

Schema

object

MeasurementDevice

object

Information about the device (equipment) used to take measurements (observations).

MeasurementTimePeriod

object

The time period over which a Measurement is taken.

Occupancy

number

The count of people in the queue. The unit of measure is number of people. This metric is updated every five minutes.

PassengerQueue

object

Information about the Passenger Party Queue.

Projected Wait Time

number

Status

- This is a global initiative
- Work is due to start on Wait Times v2.0
- Further participants are welcome

For More Information

- Visit <https://acris.aero>

