

Airport Concessions V2.0 Standard

[Abstract](#)

An Airports Council International (ACI) data interface standard for applicable concessions—amenity, food and beverage, retail, and services at airports.

Airport Concessions v2.0 Standard

Introduction

This data interface recommendation was produced by the ACI ACRIS (Aviation Community Recommended Information Services) Working Group and complies with the ACRIS Semantic Model and interface specifications, including the relevant terms and specification of the APIs (Application Programming Interfaces).

Changes from v1.0¹

The following endpoints have been deprecated:

1. **/airport/{airport code}/concessions/{concession facility id}/** is redundant to **/airport/concessions/{concession facility id}/** and removed from the specification.

V2.0 extends the existing specification to include additional metadata for concession facilities for improved classification and usability. In the API specs, previous URIs are identified in **bold** text. New entities have been introduced to satisfy the use cases for marketing airport concessions to external parties and to provide the relevant metadata for use in ecommerce platforms. The standard can be used in Request for Proposals (RFPs) or contracts to enforce a data exchange standard as RESTful APIs for use in multiple digital channels such as third-party maps, mobile applications, and to re-use concession data for turnkey systems such as Point of Sale.

Terms and Entities Used in this Specification

1. **Airport Facility:** A building or infrastructure used for services provided by an authorised party for the landing and take-off of aircraft transport vehicles.
2. **Concession Facility:** A subsection of a building or infrastructure used to provide a concession service.
3. **Concession Category:** A fine grained hierarchy of classification specific to an airport.
4. **Concession Type:** A generic classification of a concession that applies to all airports.
5. **Gate Facility:** Infrastructure that enables the boarding and deplaning of an aircraft within a Terminal Facility.
 - a. **Swing Gate:** A configuration of a Gate Facility that can be switched to service different sectors (domestic, international, or transborder) based on passenger destination and flight schedule.
6. **Concession Occupant Party:** The marketing, public-facing business party providing the concession's goods and product offerings.
7. **Concession Operator Party:** An individual, identifiable group or organization that is the leaseholder of the space within the airport used for concession operations.
8. **Tag²:** A label associated with something for the purpose of identification or classification.
9. **Terminal Facility:** A building or infrastructure that provides aviation services.
10. **Transborder:** A facility capable of providing pre-clearance screening for entry eliminating customs clearance at the destination country.

Airport Concessions v2.0 API Specification

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

The detailed API specification can be found at acris.aero: *Please request the link from ACI.*

The link to related Swagger/API Specifications: *Please request the link from ACI.*

The ACI Airport Concessions v2.0 API supports requests for the following information:

Business Domain	Purpose
Concession Facilities, Concession Occupant Parties and Concession Operator Parties	To provide all concession facilities, occupant parties, and operator parties available at a specific airport.

Example HTTP GET Requests of the specification:

Airport and Concession Facilities URI Paths	Result
/aci/references/airports/	Returns a list of all Airport Facilities registered in the system.
<pre>[{ "iata_code": "ADL", "icao_code": "YPAD", "name": "Adelaide International Airport", "utc_offset": "9.50", "timezone": "Australian Central Standard Time" }, { "iata_code": "SEA", "icao_code": "KSEA", "name": "Seattle Tacoma International Airport", "utc_offset": "-8.00", "timezone": "Pacific Standard Time" }, { "iata_code": "SFO", "icao_code": "KSFO", "name": "San Francisco International Airport", "utc_offset": "-8.00", "timezone": "Pacific Standard Time" }, { "iata_code": "YYZ", "icao_code": "CYYZ", "name": "Toronto Pearson International Airport", "utc_offset": "-5.00", "timezone": "Eastern Standard Time" }]</pre>	
/aci/references/airports/{ airport code }/	Returns the detail record for a specific Airport Facility.
<pre>{ "iata_code": "ADL", "icao_code": "YPAD", "name": "Adelaide International Airport", "utc_offset": "9.50", "timezone": "Australian Central Standard Time" }</pre>	Example: /aci/references/airports/ADL/
/aci/references/airports/{ airport code }/terminals/	Returns a list of Terminal Facilities for a specific Airport Facility.
<pre>[{ "id": 410, "airport": 310, "code": "ITA", "name": "International Terminal A", "display_name": "International A", "international": true, "domestic": true, "transborder": true }, { "id": 411, "airport": 310, "code": "ITG", "name": "International Terminal G", "display_name": "International G", "international": true, "domestic": false, "transborder": false }]</pre>	Example: /aci/references/airports/SFO/terminals/
/aci/references/airports/{ airport code }/terminals/{ terminal facility id }/	Returns the detail record for a specific Terminal Facility at a specific Airport Facility.
<pre>{ "id": 454, "airport": 311, "code": "MT", "name": "Main Terminal", "display_name": "Main Terminal", "international": true, </pre>	Example: /aci/references/airports/SEA/terminals/454/

<pre>"domestic": true, "transborder": false }</pre>	
<p>/aci/references/airports/{airport code}/gates/</p>	<p>Returns a list of Gate Facilities at specific Airport Facility, nested with the Terminal Facility.</p>
<pre>[{ "id": 7894, "number": " ", "name": "A1", "display_name": "A1", "swing_gate": false, "terminal": { "airport": 310, "code": "ITA", "name": "International Terminal A", "display_name": "International A", "international": true, "domestic": true, "transborder": true } }, { "id": 7895, "number": " ", "name": "A10", "display_name": "A10", "swing_gate": false, "terminal": { "airport": 310, "code": "ITA", "name": "International Terminal A", "display_name": "International A", "international": true, "domestic": true, "transborder": true } }]</pre>	<p>Example: /aci/references/airports/SFO/gates/</p>
<p>/aci/airports/{airport code}/concessions/</p>	<p>Returns a list of all Concession Facilities for a specific Airport Facility.</p>
<pre>[{ "id": 15674, "name": "24th & Mission Taco House", "display_name": null, "description": "This location is temporarily closed.Fresh made-to-order Mexican entrees with beer & wine", "location_description": "Marketplace G (near entrance to G Gates)", "concession_type": { "id": 650, "code": "FOOD BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "concession_occupant_party": { "name": "24th & Mission Taco House", "display_name": "24th & Mission Taco House", "description": "" }, "concession_operator_party": { "name": "Andale Management Group, Inc.", "description": "" }, "active": true, "temporarily_closed": true, "post_security": false, "location_id": "4F06ED51-E37E-43C3-AA13-0811948232C8", "hours_of_operation": "Daily, 8:00 a.m. to 9:00 p.m", "osm_hours": "Mo-Su 08:00-21:00", "phone_number": "650.644.9300", "tags": [] }, { "id": 15748, "name": "Brookstone", "display_name": null, "description": "Functional gadgets for health, home, office and travel", "location_description": "", "concession_type": { "id": 651, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }, "concession_occupant_party": { "name": "Brookstone", "display_name": "Brookstone", "description": "" }, "concession_operator_party": { "name": "Brookstone", "description": "" }, "active": true,</pre>	<p>Example: /aci/airports/SFO/concessions/</p>

<pre>"temporarily_closed": false, "post_security": false, "location_id": "DF0D697C-BDFF-425A-8B74-1DE96C456175", "hours_of_operation": "Daily, 8:00 a.m. to 1:00 p.m.", "osm_hours": "Mo-Su 08:00-13:00", "phone_number": "650.588.8409", "tags": [{ "id": 739, "name": "Military Discount" }] }</pre>	
<pre>/aci/airports/{airport code}/concessions/types/{concession type id}/</pre>	<p>Returns a list of all Concession Facilities for a specific Airport Facility filtered by a specific Concession Type.</p>
<p><Left blank intentionally></p>	<p>Example: /aci/airports/SFO/concessions/types/2/</p>
<pre>/aci/airports/{airport code }/terminals/{terminal facility id}/concessions</pre>	<p>Returns a list of Concession Facilities for a specific Terminal Facility at a specific Airport Facility.</p>
<pre>[{ "id": 15751, "name": "Burberry", "display_name": null, "description": "Duty free luxury apparel, handbags, and men's and women's accessories", "location_description": "Gates, near Gate G2", "concession_type": { "id": 651, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }, "concession_occupant_party": { "name": "Burberry", "display_name": "Burberry", "description": "" }, "concession_operator_party": { "name": "DFS", "description": "" }, "active": true, "temporarily_closed": false, "post_security": true, "location_id": "", "hours_of_operation": "Daily, 8:00 a.m. to 12:00 p.m.", "osm_hours": "Mo-Su 08:00-12:00", "phone_number": "650.444.1920", "tags": [] }, { "id": 15758, "name": "DFS Duty Free", "display_name": null, "description": "This location is temporarily closed.Liquor, tobacco, cosmetics and fragrances--duty free", "location_description": "Gates, near Gate G4", "concession_type": { "id": 651, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }, "concession_occupant_party": { "name": "DFS Duty Free", "display_name": "DFS Duty Free", "description": "" }, "concession_operator_party": { "name": "DFS", "description": "" }, "active": true, "temporarily_closed": true, "post_security": true, "location_id": "74F586A9-9012-4B03-BAD6-ECF420C589F5", "hours_of_operation": "Daily, 8:30 a.m. to 12:30 p.m.", "osm_hours": "Mo-Su 08:30-12:30", "phone_number": "650.827.3527 ", "tags": [] }]</pre>	<p>Example: /aci/airports/SFO/terminals/411/concessions/</p>
<pre>/aci/v2/concessions/categories/</pre>	<p>Returns an ACI sanctioned list of Concession Categories.</p>

<pre>[{ "concession_type": { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "id": 3, "code": "BAR", "name": "Bar", "description": "Alcoholic spirits and bistro food." }, { "concession_type": { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "id": 2, "code": "CAFE", "name": "Cafe", "description": "Coffee, Tea, Sandwiches and Pastries." }, { "concession_type": { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "id": 1, "code": "RESTAURANT", "name": "Restaurant", "description": "Sit-down facility for food and beverage." }, { "concession_type": { "id": 3, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }, "id": 5, "code": "BOOKSTORE", "name": "Bookstore", "description": "Best Sellers, Books and Magazines for the traveler" }, { "concession_type": { "id": 3, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }, "id": 6, "code": "CLOTHING", "name": "Clothing", "description": "Clothes for the traveler." }, { "concession_type": { "id": 3, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }, "id": 4, "code": "NEWS", "name": "News and Souvenirs", "description": "Newspapers, magazines, and souvenirs" }, { "concession_type": { "id": 4, "code": "SERVICE", "name": "Service", "description": "A concession whose main business is passenger assistance." }, "id": 7, "code": "TRAVELAGENCY", "name": "Travel Agent", "description": "Booking Services to assist the traveler." }] </pre>	
<p>/aci/v2/concessions/facilities/</p>	<p>Returns a list of all Concession Facilities registered in the system.</p>
<p><Left blank intentionally></p>	<p><Left blank intentionally></p>

<p>/aci/v2/concessions/facilities/{concession facility id}</p>	<p>Returns the detail record for a specific Concession Facility.</p>
<pre>{ "id": 15700, "name": "Joe & The Juice", "display_name": null, "description": "Coffee, espresso drinks, freshly pressed juices, smoothies and made-to-order sandwiches.Watch themSFO Air Fare video to see what's on the menu.", "location_description": "Gates, near Gate G13", "concession_type": { "id": 650, "code": "FOOD BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "concession_occupant_party": { "name": "Joe & The Juice", "display_name": "Joe & The Juice", "description": "" }, "concession_operator_party": { "name": "Joe & the Juice SFO, LLC", "description": "" }, "active": true, "temporarily_closed": false, "post_security": true, "location_id": "635544B1-159C-4E96-935E-CAPD24314F56", "hours_of_operation": "Daily, 7:00 a.m. to 6:00 p.m.", "osm_hours": "Mo-Su 07:00-18:00", "phone_number": "", "tags": [] }</pre>	<p>Example: /aci/v2/concessions/facilities/15700/</p>
<p>/aci/v2/concessions/tags/</p>	<p>Returns an ACI sanctioned list of Concession Tags.</p>
<pre>[{ "id": 2, "name": "Green" }, { "id": 3, "name": "Kids Menu" }, { "id": 1, "name": "Military Discount" },]</pre>	<p>Example: /aci/v2/concessions/tags/</p>
<p>/aci/v2/concessions/tags/{tag id}/</p>	<p>Returns the detail record for a specific Concession Tag.</p>
<pre>{ "id": 2, "name": "Green" }</pre>	<p>Example: /aci/v2/concessions/tags/2/</p>
<p>/aci/v2/concessions/types/</p>	<p>Returns an ACI sanctioned list of Concession Types.</p>
<pre>[{ "id": 1, "code": "AMENITY", "name": "Amenity", "description": "In airports, a free or no-cost service or facility available to passengers." }, { "id": 2, "code": "FOOD BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, { "id": 3, "code": "RETAIL", "name": "Retail", "description": "A concession whose main business is the sale of products." }]</pre>	

<pre>] </pre>	
<p>/aci/v2/concessions/types/{concession type id}/</p>	<p>Returns the detail record for a specific Concession Type.</p>
<pre> { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." } </pre>	<p>Example: /aci/v2/concessions/types/2/</p>
<p>/aci/v2/concessions/types/{concession type id }/categories/</p>	<p>Returns a list of Concession Categories for a specific Concession Type.</p>
<pre> [{ "concession_type": { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "id": 3, "code": "BAR", "name": "Bar", "description": "Alcoholic spirits and bistro food." }, { "concession_type": { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "id": 2, "code": "CAFE", "name": "Cafe", "description": "Coffee, Tea, Sandwiches and Pastries." }, { "concession_type": { "id": 2, "code": "FOOD_BEVERAGE", "name": "Food and Beverage", "description": "A concession whose main business is perishable consumption." }, "id": 1, "code": "RESTAURANT", "name": "Restaurant", "description": "Sit-down facility for food and beverage." }] </pre>	<p>Example: /aci/v2/concessions/types/2/categories/</p>

Document Version Control

No.	Version	Date	Description	Editor
1.	2.0	13.12.2021	Document draft created	Bob Logan (Rockport Software) Humphrey Loe (SFO) Logini Sivadasan (YYZ) Michael Klassen (YYZ)
2.	2.0	25.05.2022	Document draft completed	Bob Logan (Rockport Software) Humphrey Loe (SFO) Logini Sivadasan (YYZ) Michael Klassen (YYZ) Martin Rogal (MUC) Richard Todd (Rockport Software)

References:

1. ACI ACRIS Concession API v1.0, <https://acris.aero/api-concessions/>, accessed 13th, December 2021.
2. Princeton Wordnet, <http://wordnetweb.princeton.edu/>, accessed 5th, May, 2022.
3. ACRIS Semantic Model, <https://acris.aero/model/>, accessed 5th, May, 2022.