OpenActive Community Group Hangout

Facilities proposal

2018-01-17

Agenda

- Facilities
    - General requirements
    - Proposal for revising standards
    - Active Places and opportunity data
- AOB
- Next Calls

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Facilities: General requirements

General requirements

- Two broad categories of user need identified so far
- **Active Places**:
  - data that describes places where people can take part in activities
- **Facility availability**:
  - data that describes availability of facilities
  - "I want to book a squash court"

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Facility Availability use cases

- What facilities are available at a location?

- What activities can be carried out in this facility?

- How do I find this specific squash court?

- What dates and times can I book this squash court?

- Is this squash court still available at a given time?

Facility requirements

1. Publish data about Facilities in an RDPE feed
2. Describe a Facility
   - associate a Facility with a Place
   - associate a Facility with activities
   - associate Events (slots) with Facilities
     - individual, or schedule
   - *describe availability of an Event (slot)*
3. Efficiently check if an Event is still available

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Publish data about Facilities in a feed

- Identify what type of data an RDPE Feed includes

```
{

  "feedObject": "http://schema.org/Event",

  "rdpeVersion": "1.1",

  "opportunityModelVersion": "1.1",

  "items": "",

  "next": "...",

  "license": "..."

}
```

Describe a Facility

- Define a new type, called Facility
  - Identify some useful sub-types, e.g. Squash Court to support filtering
- Use existing opportunity data model terms to:
  - associate the facility with a Place
  - associate the facility with one or more Events
  - associate the facility with one or more activities

Describe a Facility (Basic information)

```
{

 "name": "Squash Court",

 "type": "Facility",

 "additionalType": "oa:SquashCourt", #based this on ActivePlaces, see later

 "containedInPlace": {

   "name": "Leisure Centre"

 },

 "activities": "squash"

}
```

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Describe a Facility (Events, Offers)

```
{

 "name": "Squash Court",

 "type": "Facility",

 "event": [ {

   "startDate": "...",

   "endDate": "...",

   "offers": [ … ]                          #can include date-time when booking starts

   "eventStatus": "http://openactive.io/ns#Available", #or Unavailable, indicates if booked

 }]

}
```

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Efficiently check if an Event is still available

- Data can be re-harvested, but likely to be slow
- Proposal:
  - define a new endpoint to allow checking availability of any Event included in an RDPE feed
  - supports real-time check and confirmation
  - use URI Templates to specify URLs for scheduled events

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Comments?

- Any early thoughts on proposal?

- This doesn't address use cases such as:
    - Describing that a sports hall can be hired out by itself, or as separate courts
    - Platforms would hide this functionality

Active Places

Active Places

- Sport facilities database provided by Sport England
- https://www.activeplacespower.com

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How is the data published?

- Data is available via an [API](), and by downloading CSV/JSON files directly from the site's [download]() page.
- The API endpoint declares that it conforms to the Openactive Realtime Paged Data Exchange 0.2.3 specification. (Note that this is slightly behind the current 1.0 release)
- The downloadable JSON is not paged, but follows the same structure as the JSON returned from the API

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What form does the documentation/licence take?

There is nothing that clearly describes itself as documentation. Additional information is split across the following:

- FAQs: https://www.activeplacespower.com/faqs/by/AllFAQs (doesn't mention API)
- For the API, there is an interactive query tool: https://www.activeplacespower.com/OpenData/Api/Docs#!/Sites/Sites_Get
- Licence is linked to in the API data: https://www.activeplacespower.com/Content/ActivePlacesOpenDataLicence.pdf
- Data model schema: https://www.activeplacespower.com/sdm

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Can Active Places locations be described using the opportunity data model?

- **Partly, but at a lower level of detail**. Active Places is currently capturing a lot more data (although not all of it is relevant to our needs) - see next slides.
- As noted, currently RDPE feeds largely focus on Events, not Places
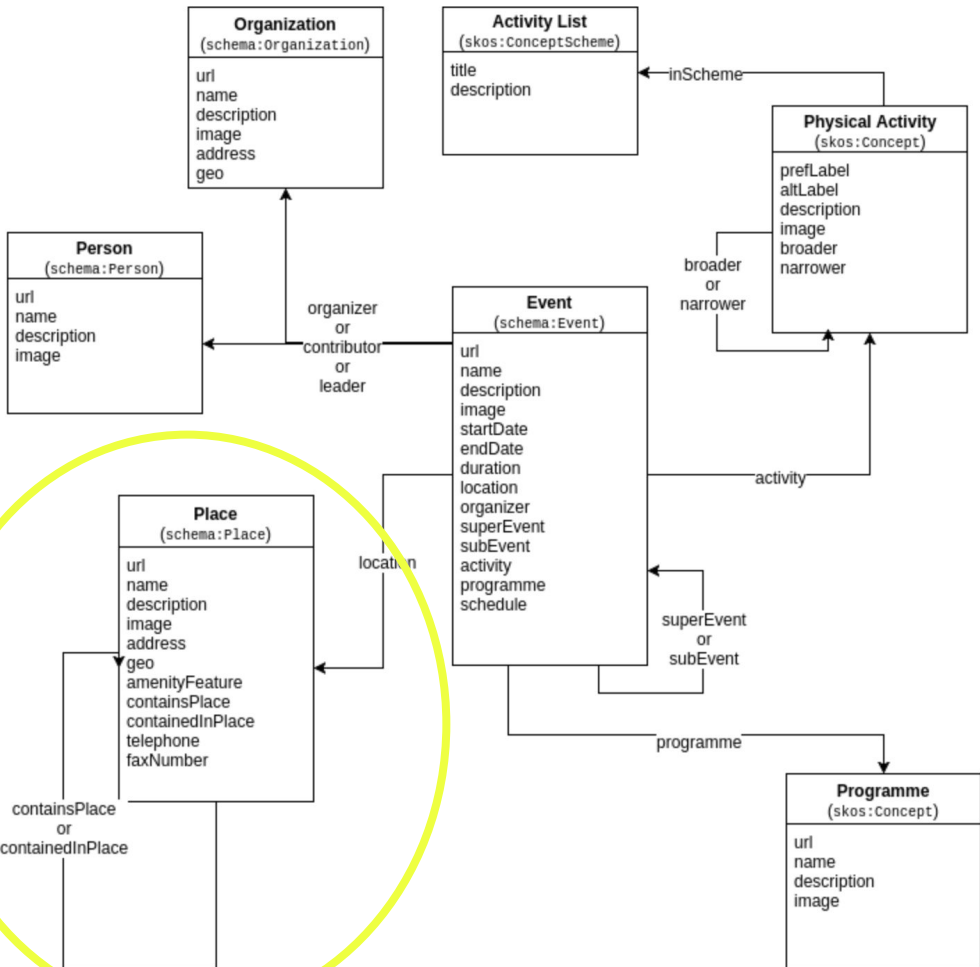
Opportunity data schema diagram

Sport Data Model — SITES | **API inspector** — items [ ] | **API additional** — paging spec | **OA data model**

Sport Data Model (SITES)	API inspector (items [ ])	API additional	OA data model
SiteName	name		name
Description			description
DisabilityAccess	Covered by disability level of data		
Disability Params			
Disability Notes			
CarParkExists	hasCarPark		
CarPark Capacity	carParkCapacity		
CreatedOn	createdOn		
StartDate	startDate		
RecEndDate	closureDate (assumed match)		
UpdatedOn			
SourceOrg ID			
UpdatedBy			
CheckedOn	checkedOn		
CheckedBy			
ValidatedOn	auditedOn (assumed match)		
ValidatedBy			
Owner Type	owner Type		
Owner OrgName			
SubBuildingName	SubBuildingName		
BuildingName	buildingName		
BuildingNumber	buildingNumber		
Dependant Thoroughfare	dependant Thoroughfare		
Thoroughfare Name	thoroughfareName		
DoubleDependantLocality	doubleDependantLocality		
DependantLocality	dependantLocality		
PostTown	postTown		
PostCode	postCode		
PostCodeUpdFlag			
Easting	easting		
Northing	northing		
PlotAccuracy	plotAccuracy		
EducationPhase	educationPhase		
Display			
Group_id			
Notes	comments		
inputsourceorgid			
Is MultiPac			
Shape			
ManagementType	managementType		
Id	id		
Area_Id			
Owner Group	ownerGroup		
ManagementGroup	ManagementGroup		

API additional (paging spec):

State: updated / deleted
Kind: site
Modified: 167151
Id (again)
___

- outputAreaCode
- parliamentaryConstituency Code
- parliamentaryConstituencyName
- regionCode
- regionName
- wardCode
- wardName
- localAuthorityCode
- localAuthorityName
- latitude
- longitude
- toid (?)
- closureCode
- closure Reason
- closureNotes
- aliases

OA data model (right side annotations):

] geo

{ address

amenityFeature = handled by facilities
containsPlace "
ContainedIn Place "

telephone = handled by contacts
faxNumber

image = additional url "

(far right diagram):
- facilities
- Equipment
- Sites
- Clubs
- Contact

How Active Places structures their site data returned by their API

It contains a lot more data than we capture about locations at the moment
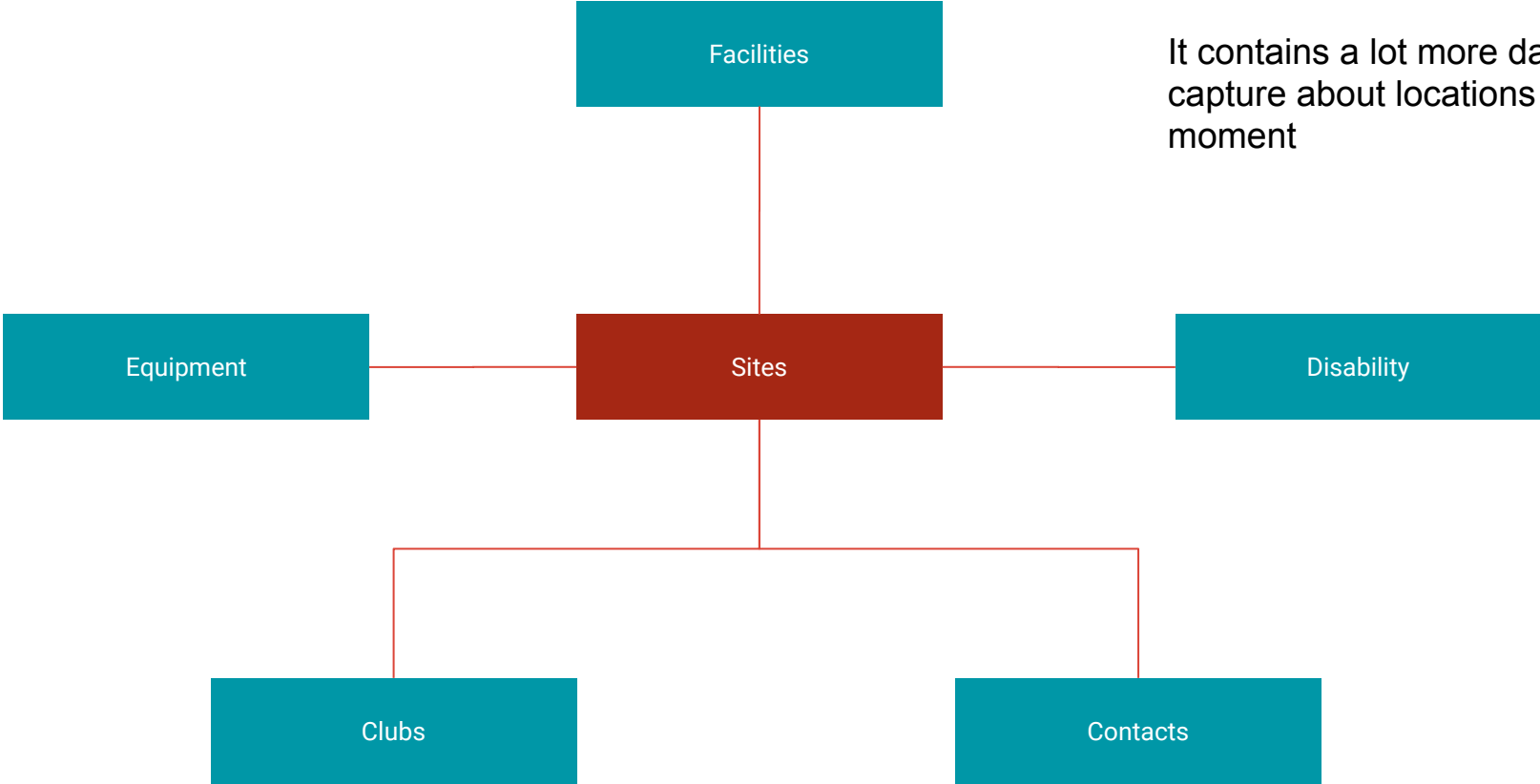
Active Places - equipment and facility types

The following Google Sheet contains the Active Places...

- **Equipment types** (and number of each featured across all sites)
- **Facility types**
- **Facility sub-types** (have not included the relationship to facility types)

https://docs.google.com/spreadsheets/d/16FQMSeKle54arw4KvRt1p8YLoRiKMuLWubkWEfNqPYU/edit?usp=sharing

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id: "1004669"
state: "updated"
kind: "site"
modified: 1200735
data:
    id: 1004669
    name: "CROXTETH SPORTS AND WELLBEING CENTRE"
    outputAreaCode: "E00033748"
    parliamentaryConstituencyCode: "E14000796"
    parliamentaryConstituencyName: "Liverpool, West Derby"
    regionCode: "E15000002"
    regionName: "North West"
    wardCode: "E05000895"
    wardName: "Croxteth"
    localAuthorityCode: "E08000012"
    localAuthorityName: "Liverpool"
    easting: 340432.48
    northing: 395877.89
    latitude: 53.45627
    longitude: −2.898542
    plotAccuracy: null
    subBuildingName: ""
    buildingName: ""
    buildingNumber: 0
    dependentThoroughfare: ""
    thoroughfareName: "Altcross Road"
    doubleDependentLocality: ""
    dependentLocality: ""
    postTown: "Liverpool"
    postcode: "L11 0BS"
    toid: ""
    hasCarPark: true
    carParkCapacity: 70
    managementType: "Trust"
    managementGroup: "Trust"
    ownerType: "Community Organisation"
    ownerGroup: "Community Organisation"
    educationPhase: "Not applicable"
    createdOn: "2004-05-18T00:52:42"
    auditedOn: "2017-01-27T14:20:57"
    checkedOn: "2017-01-27T14:20:57"
    startDate: null
    closureDate: null
    closureCode: null
    closureReason: null
    closureNotes: null
    comments: []
    aliases: []
    equipment: {…}
    contacts: […]
    clubs: […]
    facilities: […]
    disability: {…}

Example of a site from the API (showing attributes)

Example of equipment

```
▼ equipment:
    tableTennisTables:          "2"
▶ contacts:                      [...]
▶ clubs:                         [...]
```

Example of a contact

```
▼ contacts:
  ▼ 0:
      id:               9116
      contactType:      "Enquiries"
      title:            "Ms"
      forename:         "Colly"
      surname:          "Whitty"
      designation:      "Manager"
      email:            "enquiries@altvalley.co.uk"
      telephone:        "0151 548 3421"
      website:          "http://altvalley.co.uk/sports-health-wellbeing"
```

Example of a club

```
clubs:
  0:
    id:                      585
    name:                    "WIRRAL HANDBALL CLUB"
    sport:                   "Handball"
    status:                  "Operational"
    gender:                  "Mixed"
    holdsDisabilitySports:   true
    disabilityNotes:         ""
    participants:            "50-100"
    acceptsBeginners:        true
    notes:                   ""
    ngbAffiliated:           true
    checkedOn:               "2012-01-03T00:00:00"
```

```
disability:
  access:                    true
  notes:                     "Activity Areas: Lift"
  equipped:
    parking:                 true
    findingReachingEntrance: true
    receptionArea:           true
    doorways:                true
    changingFacilities:      true
    activityAreas:           true
    toilets:                 true
    socialAreas:             false
    spectatorAreas:          false
    emergencyExits:          true
```

Example of disability data

7.

Example of facility data

facilities:
  0:
    id: 2004191
    facilityType: "Sports Hall"
    facilitySubType: "Main"
    accessibility: "Sports Club / Community Association"
    status: "Operational"
    statusNotes: null
    managementType: "Trust"
    managementGroup: "Trust"
    accessibilityGroup: "Public Access"
    yearBuilt: 1985
    isRefurbished: true
    yearRefurbished: 2015
    hasChangingRooms: true
    areChangingRoomsRefurbished: true
    yearChangingRoomsRefurbished: 2015
    timingsType: "Detailed Timings"
    createdOn: null
    checkedOn: "2017-01-27T14:20:57"
    startDate: null
    openingDate: null
    closureDate: null
    closureCode: null
    closureReason: null
    closureNotes: null
    comments: []
    openingTimes:
      0:
        accessDescription: "Pay and Play"
        openingTime: "08:30"
        closingTime: "14:30"
        periodOpenFor: "Weekend"
        yearPart: 1
      1:                             {…}
      2:                             {…}
      3:                             {…}
      4:                             {…}
      5:                             {…}
    facilitySpecifics:
      area: "594"
      areaEstimate: "0"
      badmintonCourts: "4"
      basketballCourts: "1"
      clearanceExists: "1"
      cricketNets: "0"
      length: "33"
      netballCourts: "1"
      volleyballCourts: "1"
      width: "18"

Similarities

- Both have **names** and **descriptions** as part of the core model (although description does not seem to be surfaced via the API).
- Both have information around **facilities within a site** (but implemented differently).
- **Geo coordinates** are available from both the OA model and AP API (but modelled differently)
- **Address** information is available from both (but modelled differently).
- **Contact details** for a location are available from both (via AP:Contacts).

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Differences

- How **addresses** are handled (including a lot of other categorisations AP-side)
- **OA model requires a url**, and suggests an image for a location.
- containedInPlace/containsPlace vs the **relationship between Sites and Facilities**.
- We are tracking **accessibility/disability** information at event level rather than for the venue.
- **Opening times** for (AP)Facilities, could cause some confusion with (OA)Event times for facilities that are generally open vs things that need to be booked/activities that happen within open periods.
- **Clubs** goes wider in scope than we have been looking at.

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How could Active Places locations be referenced from opportunity data?

- Active Places Sites are identified using a numeric identifier
  - e.g. 1044065 for Padbury Village Hall
- Facilities within sites are also referenced by a numeric ID
  - e.g. within 1044065 there is a sports hall with ID 4111493
- Places in opportunity data could cross-reference Active Places dataset
  - Would allow data users to join that data to richer information available in Active Places

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How could Active Places locations be referenced from opportunity data?

```
{
 "type": "Place",
 "name": "Padbury Village Hall",
 "activePlacesId": "1044065"
}
```

```
{
 "type": "Place",
 "name": "Padbury Village Hall",
 "identifier": {
    "propertyID": "oa:activePlacesId",
    "value": "1044065"
  }
}
```

Active Places Proposal

- Don't try to fully align data models at this stage
- Use Active Places data model to inform our work on facilities
- **Recommend use of Active Places data** by data users
  - E.g. to drive specific discovery use cases, or to enrich existing datasets
- **Revise the specification and primer to describe how it can be used**
- Work with Sport England to see if there is useful ways to improve documentation and guidance
- Put additional Club information onto our roadmap

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AOB

Next meetings

Next Calls

- 24th January
  - Booking workshop in London
- 31st January
  - Booking
- 14th February
  - Activity List

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Please share our work

- Who else should be attending these meetings?
- Videos of our calls
- OpenActive blog
- @openactive

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