Attendees:

- Georg Ferdinand Schneider (Individual CLA but affiliated with Schaeffler)
- Mathias Bonduel (KU Leuven)
- Alberto Giretti (univpm Italy)
- Sjoerd Rongen (Taxonic)
- Mads Holten Rasmussen (Niras)
- Sylvain MARIE (buildingSMART France)
- Gonçal Costa (LaSalle University)
- Rui Ma (Tongji University & City University of Hong Kong)

Date and time

- 19/05/2020
- 17:00 18:30 CEST

Agenda (tentative)

- 1. Introduction
- 2. BOT Definitions revision
 - Site: https://github.com/w3c-lbd-cg/bot/issues/54
 - Building: https://github.com/w3c-lbd-cg/bot/issues/65
 - Interface: https://github.com/w3c-lbd-cg/bot/issues/71
 - Storey: https://github.com/w3c-lbd-cg/bot/issues/66
 - hasSubElement: https://github.com/w3c-lbd-cg/bot/issues/47
 - Revised labels and descriptions https://github.com/w3c-lbd-cg/bot/pull/73
- 3. BOT Alignment revision
 - o BOT2BRICK

Minutes

- 1. Introduction
- Organisational
 - Current Calendar invite provided by W3C is not bi-weekly
 - ACTION [Georg Schneider]: Change invite to bi-weekly
- 3. BOT Definitions revision
 - Site: https://github.com/w3c-lbd-cg/bot/issues/54
 - ACCEPTED
 - o **Building**: https://github.com/w3c-lbd-cg/bot/issues/65
 - ACCEPTED
 - o Interface: https://github.com/w3c-lbd-cg/bot/issues/71
 - A bot:Interface is a part of the world with a spatial extent, that is common to some zones and elements. It allows to describe the boundary between two building

elements, two zones or a building element and a zone. It can be used for qualification of the topological connections between these pairs. An example is the qualification of the heat transmission area between a zone and a wall covering multiple zones.

- Definition is found to be to specific, more generic proposal is elaborated
- Mathias: bot:interfaceOf schema:rangeIncludes bot:Element , bot:Zone RESOLUTION: Add statement above
- Comment by Sylvain:
 - Connection between systems?
 - Answer by Mads: A pipe has several interfaces to zone it is Intersecting

Suggestion -> interfaceOf add a schema:domainInclude bot:Zone, bot:Element

Interface -> "Modelling the connection between a topological element with an interface"

Comment Alberto: interface as boundary, interface as

connectedness of system

Mads: two or more elements can be connected

Mads: not necessarily a geometry Interface can be line or point

Mathias: bot:interfaceOf schema:rangeIncludes seas:System? Mads: should not be restricted, only one of the connected things should be a bot:Element or bot:Zone

- A generic concept to qualify the relationship of two or more things in the world, where at least one is a building element or zone. Examples:
 - Qualification of heat transmission between zones through one or more building elements. This includes one-dimensional (surface) heat losses from one zone to another through a single building element, a two dimensional (line) loss from one zone to another through the connection in which the two elements meet or a three dimensional (point) loss from one zone to another through the connection where three elements (typically two walls and a slab) meet.
 - Connection of an electric device to the electric system of a building.

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A door between one room and another.

1D heat loss example:

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# TBOX
```

ABOX

<hts1> a xx:HeatTransmissionSurface .

- -> Comment by Alberto: Are we loosing the spatial extent/ Boundary notion of BOT?
- -> Answer: No, Interface is denoted generic. Hence, a concept can be specialised from bot:Interface to describe a boundary.
- COmment by Alberto: It seems to be awkward that there is no notion of a boundary in BOT.
- -> Answer by Mathias: BOT's focus is on topology rather than geometry. Hence, the description of geometry, rather use regional connection calculus for this purpose (e.g. as in https://en.wikipedia.org/wiki/OGC_GeoSPARQL).

ACTION: Add to docs differentiation to RCC8 etc.

ACTION: Update BOT docs including B Complete examples

Storey: https://github.com/w3c-lbd-cg/bot/issues/66

A part of the physical world or a virtual world that is inherently both located in this world and having a 3D spatial extent. A bot:Storey is contained in one or more buildings, and is intended to contain one or more spaces that are horizontally connected. Storeys of a building are connected by means of vertical connections such as elevators and stairs. A bot:Storey encompasses both zones above and below ground, for example, a building with 21 floors above ground, one ground floor and 3 basements is equal to the sentence: A building has 25 instances of bot:Storey.

- Accepted
- hasSubElement: https://github.com/w3c-lbd-cg/bot/issues/47
 - ACCEPTED.
 - property chain and transitivity postponed to bot v0.4.0
- Revision of bot:interfaceOf property
- also update bot:interfaceOf text definition "Relationship between an interface and its adjacent zone(s) and/or element(s)." => "Relationship between an interface and another thing (building zone, element or something else)"
- Revised labels and descriptions https://github.com/w3c-lbd-cg/bot/pull/73
- -> Revision after editing new
- Its added at the bottom of file

Workflow:

- Add new definitions to spreadsheet, update translations do one big merge into GH
 Comment by Mathias: -> We need to ensure, quality of the definitions is good
 ACTION Georg: Check lock column in spreadsheet, english
- 4. BOT Alignment revision
 - BOT2BRICK

RECAlignment suggestion (real estate core):

https://github.com/MadsHolten/bot/blob/master/RECAlignment.ttl

-> bot:Space instead of bot:Room

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Next Call

• 02/06/2020, Tue, 16:00-17:30@CEST/ 7:00-8:30@PDT/ 14:00-15:30@UTC

We are interested in getting suggestions from the community about potential agenda items for the following calls. Please send your suggestions to public-lbd@w3.org, whether you have a short presentation to bootstrap the discussion, and an approximate duration you think the discussion will last.

Previous minutes

https://docs.google.com/document/d/1eHCjAWFDuFOyEScOP-LAnzXo6_VYWUC6oe6qB3S9s aw/edit