## Issue 426 –Scope note for Pxxx holds or supports

### HW by RS:

This is **NOT** the final version. For the final version see [below](#_Issue_426_–HW_1)

**P198 holds or supports**

Domain: E18 Physical Thing

Range: E18 Physical Thing

Superproperty of:

Quantification: many to many

Scope Note: This property relates one instance of E18 Physical Thing which acts as a container or support for another instance of E18 Physical Thing. Typical examples of containers or supports include shelves, folders or boxes that provide a surface upon which is intended for other physical objects to be placed for storage, display, transport or other functions. Pxxx holds or supports is a shortcut of the more fully developed path from the domain E18 Physical Thing through P59 has section, E53 Place, P53i is former or current location of, to the range E18 Physical Thing. It is not a sub-property of P46 is composed of, as the held or supported object is not a component of the container or support.

This property can be used to avoid explicitly instantiating the E53 Place which is defined by an instance of E18 Physical Thing, especially when the only intended use of that instance of E18 Physical Thing is to act as a container or surface for the storage of other instances of E18 Physical Thing. The place’s existence is defined by the existence of the container or surface, and will go out of existence at the same time as the Destruction of the container or surface.

Examples:

* archival folder “6” (E22) *holds or supports* the piece of paper (E22) carrying the text of a letter from Alloway to Sleigh
* artist’s materials box “VG6” (E22) *holds or supports* Van Gogh’s paintbrush 23 (E22)
* storage box “VG” (E22) *holds or supports* the artist’s materials box “VG6” (E22)
* bronze coin bank “72.AC.99” (E22) *holds or supports* silver coin “72.AC.99-1” (E22)
* bookshelf “GRI-708.1” (E22) *holds or supports* the book “Catalog of Paintings in the J.Paul Gerry Museum” (E22)

### The final version of the property

**P198 holds or supports**

Domain: E18 Physical Thing

Range: E18 Physical Thing

Quantification: one to many

Scope Note: This property relates one instance of E18 Physical Thing which acts as a container or support to a supported or contained instance of E18 Physical Thing. Typical examples of E18 Physical Things which are intended to function as a container or support include shelves, folders or boxes. These containers or supports provide a stable surface which is intended for other physical objects to be placed upon for storage, display, transport or other similar functions. *P198 holds or supports* is a shortcut of the more fully developed path from the domain E18 Physical Thing through *P59 has section*, E53 Place, *P53i is former or current location* of, to the range E18 Physical Thing. It is not a sub-property of P46 is composed of, as the held or supported object is not a component of the container or support.

This property can be used to avoid explicitly instantiating the E53 Place which is defined by an instance of E18 Physical Thing, especially when the only intended use of that instance of E18 Physical Thing is to act as a container or surface for the storage of other instances of E18 Physical Thing. The place’s existence is defined by the existence of the container or surface, and will go out of existence at the same time as the Destruction of the container or surface. This property is transitive.

Examples

* Archival folder “1” (E22) *holds or supports* the piece of paper (E22) carrying the text of a letter from Alloway to Sleigh written in 1953
* Archival box "6" (E22) *holds or supports* the archival folder "1" (E22)
* Bookshelf “GRI.L2.c.1” (E22 *holds or supports* the copy "N582.M25 A627 2015" of the book titled “The J. Paul Getty Museum handbook of the collection” (E22)

In First Order Logic:

Pxx(x,y) ⇒E18(x)

Pxx(x,y) ⇒ E18(y)

Pxx(x,y) ⇐ (∃z) [E53(z) ˄ P59(x,z) ˄ P53i(z,y)]