What is srt?

What is Building?

What is Space?

What is walls?

-Package

-Class(field, struct, class)

-Field

-Struct

-Function

Building

* Building.Building\_propeties{Type, Address, Area}
  + Building.Building\_properties.Type (str.Children(2).Children(4).Attributes.Value)
  + Building.Building\_properties.Address(str.Children(2).Children(4).Children(2).Children.Data)
  + Building.Building\_properties.Area(str.Children(2).Children(4).Children(4).Children.Data)
* Building.Units{areaUnit, lengthUnit, temperatureUnit, volumeUnits}
  + Building.Units.areaUnit(str.Attributes(1))
  + Building.Units.lengthUnit(str.Attributes(2))
  + Building.Units.temperatureUnit (str.Attributes(3))
  + Building.Units.volumeUnit(str.Attributes(6))
* Building.Space.{numberSpace, id, area, volume, walls, heatcapacity}
  + Building.Space.numberSpace(forloop{str.Children(2).Children(4).Children.Name})
  + Building.Space.id(str.Children(2).Children(4).Children(6).Attributes(1).Value)
  + Building.Space.area(str.Children(2).Children(4).Children(6).Children(2).Children.Data)
  + Building.Space.volume(str.Children(2).Children(4).Children(6).Children(4).Children.Data)
  + Building.Space.heatcapacity=p\_air\* Building.Space.volume
  + Building.Space.door
* Building.Walls{Type,spaceId, constructionIdRef, U\_value, area}
  + Building.Space.Walls.Type{InteriorWall or ExteriorWall}

(str.Children(2).Children(for every surface))

* Building.Space.Walls.spaceId(str.Children(2).Children(1).Children(2).Attributes(1).Value)
* Building.Space.Walls.constructioIdRef
* Building.Space.Walls.U\_value

Surface-constructioIdRef=Construction-id

* Building.Space.Walls.area=width\*height

**Examples**:

Example 1: Building.Space(1).id=’aim0141’

Example 2: Finds which space ID’s are connected with wall 1.

**IF** Building.Space(i).walls(1).Type==’InteriorWall’ **THEN**

Building.Space(i).walls(1).spaceId1=str.Ch(2).Ch(1)).Ch(2).Art(1).Value

Building.Space(i).walls(1).spaceId2=str.Ch(2).Ch(1)).Ch(4).Art(1).Value

**ELSE**

Building.Space(i).walls(1).spaceId=str.Ch(2).Ch(1)).Ch(2).Art(1).Value

**END**