|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model** | **Element** | **Purpose** | **ShEx** | **Impl?** |
| **StructureDefinition** | url | Resource identifier | rdf:type [*url*]; | Y |
| name | Natural language name of resource | ShEx shape name | Y |
| kind | Identify whether the definition is a resource, primitive-type, complex-type or logical model | fhir:nodeRole [fhir:treeRoot];  if top level and *kind*=resource | Y |
| snapshot | Definition of elements in the resource | (Defines the individual triples) | - |
| **ElementDefinition** | path | The path of the element | See: Note 1 | Y |
| slicing | The element is sliced | See: Note 2 | N |
| min | Minimum Cardinality | ShEx cardinality | Y |
| max | Maximum Cardinality | ShEx cardinality or omit constraint if “0” | Y |
| contentReference | Reference to definition of content for the element | (must be de-referenced to get actual type) | Y |
| type | Data type and Profile for the element | See: Note 3 | Y |
| type.code | Name of Data type or Resource | Target shape if no profile attribute | Y |
| type.profile | Profile to apply (or IG) | See: Note 4 | Y |
| type.aggregation | Contained | referenced | bundled | (Not currently used in FHIR specification) | N |
| fixed[x] | Value must be exactly this | (single member value set for simple types.  TBD for structures) | N |
| pattern[x] | Value must have at least these property values | PATTERN facet  (Not currently used in FHIR specification) | Y |
| minValue[x] | Minimum Allowed Value | MININCLUSIVE facet | Y |
| maxValue[x] | Maximum Allowed Value | MAXINCLUSIVE facet | Y |
| maxLength | Max length for strings | MAXLENGTH facet | Y |
| condition | Reference to invariant about present | See: Note 5 | N |
| constraint | Condition that must evaluate to true | See: Note 5 | N |
| binding | ValueSet details if coded | See: Note 6 | - |
| binding.valueSet[x] | Source of value set | See: Note 6 | N |