

draft-ietf-lpwan-schc-yang-data-model-04 featuring ... "feature"

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```
feature fragmentation {  
    .. description "Fragmentation is usually required only at the lowest level."  
}
```

```
.. container schc {  
    .. leaf version {  
        .. type uint64;  
        .. description "used as an indication for versioning";  
    }  
    .. list rule {  
        .. key "rule-id-value rule-id-length";  
        .. uses rule-id-type;  
        .. choice nature {  
            .. case fragmentation {  
                .. if-feature "fragmentation";  
                .. uses fragmentation-content;  
            }  
            .. case compression {  
                .. uses compression-content;  
            }  
            .. description "A rule is either for compression or fragmentation";  
        }  
        .. description "Set of rules compression or fragmentation rules identified by  
            their rule-id";  
    }  
    .. description "a SCHC set of rule is composed of a list of rule which are either  
        compression or fragmentation";  
}
```

```
module: ietf-schc
+--rw schc
  +--rw version?  uint64
  +--rw rule* [rule-id-value rule-id-length]
    +--rw rule-id-value      uint32
    +--rw rule-id-length    uint8
  +--rw (nature)?
    +--:(fragmentation) {fragmentation}?
      +--rw direction          schc:direction-indicator-type
      +--rw dtagsize?         uint8
      +--rw wsize?            uint8
      +--rw fcsize            uint8
      +--rw RCS-algorithm?    RCS-algorithm-type
      +--rw maximum-window-size? uint16
      +--rw retransmission-timer? uint64
      +--rw inactivity-timer?  uint64
      +--rw max-ack-requests?  uint8
      +--rw maximum-packet-size? uint16
      +--rw fragmentation-mode schc:fragmentation-mode-type
      +--rw (mode)?
        +--:(no-ack)
        +--:(ack-always)
        +--:(ack-on-error)
        +--rw tile-size?      uint8
        +--rw tile-in-All1?   schc:all1-data-type
        +--rw ack-behavior?   schc:ack-behavior-type
    +--:(compression)
      +--rw entry* [field-id field-position direction-indicator]
        +--rw field-id          schc:field-id-type
        +--rw field-length      schc:field-length-type
        +--rw field-position    uint8
        +--rw direction-indicator schc:direction-indicator-type
        +--rw target-values* [position]
          +--rw value?         union
          +--rw position      uint16
        +--rw matching-operator schc:matching-operator-type
        +--rw matching-operator-value* [position]
          +--rw value?         union
          +--rw position      uint16
        +--rw comp-decomp-action schc:comp-decomp-action-type
        +--rw comp-decomp-action-value* [position]
          +--rw value?         union
          +--rw position      uint16
```