

```
module: ietf-dots-telemetry
```

```
  augment
```

```
    augment-structure /ietf-signal:dots-signal/ietf-signal:message-type
                      /ietf-signal:mitigation-scope/ietf-signal:scope:
```

```
    +---ro total-traffic* [unit] {dots-telemetry}?
    | +---ro unit unit
    | +---ro low-percentile-g? yang:gauge64
    | +---ro mid-percentile-g? yang:gauge64
    | +--- (direction)?
    | | +---ro high-percentile-g? yang:gauge64 +---: (server-to-client-only)
    | | +---ro peak-g? yang:gauge64
    | +---rw total-attack-traffic* +--- total-traffic* [unit] {dots-telemetry}?
    | | +---rw | +--- unit unit
    | | +---rw | +--- low-percentile-g? yang:gauge64
    | | +---rw | +--- mid-percentile-g? yang:gauge64
    | | +---rw | +--- high-percentile-g? yang:gauge64
    | | +---rw | +--- peak-g? yang:gauge64
    | +---ro
    | | +--- total-attack-connection {dots-telemetry}?
    | | +---ro +--- low-percentile-c
    | | | +---ro +--- connection? yang:gauge64
    | | | +---ro +--- embryonic? yang:gauge64
    | | | +---ro +--- connection-ps? yang:gauge64
    | | | +---ro +--- request-ps? yang:gauge64
    | | | +---ro +--- partial-request-ps? yang:gauge64
    | | +---ro +--- mid-percentile-c
    | | | +---ro +--- connection? yang:gauge64
    | | | +---ro +--- embryonic? yang:gauge64
    | | | +---ro +--- connection-ps? yang:gauge64
    | | | +---ro +--- request-ps? yang:gauge64
    | | | +---ro +--- partial-request-ps? yang:gauge64
    | | +---ro +--- high-percentile-c
    | | | +---ro +--- connection? yang:gauge64
    | | | +---ro +--- embryonic? yang:gauge64
    | | | +---ro +--- connection-ps? yang:gauge64
    | | | +---ro +--- request-ps? yang:gauge64
    | | | +---ro +--- partial-request-ps? yang:gauge64
    | | +---ro +--- peak-c
    | | | +---ro +--- connection? yang:gauge64
    | | | +---ro +--- embryonic? yang:gauge64
    | | | +---ro +--- connection-ps? yang:gauge64
    | | | +---ro +--- request-ps? yang:gauge64
    | | | +---ro +--- partial-request-ps? yang:gauge64
    | +---rw
    | +--- total-attack-traffic* [unit]
    | | +--- unit unit
    | | +--- low-percentile-g? yang:gauge64
    | | +--- mid-percentile-g? yang:gauge64
    | | +--- high-percentile-g? yang:gauge64
    | | +--- peak-g? yang:gauge64
    | +--- attack-detail* [vendor-id attack-id] {dots-telemetry}?
    | +---rw
    | | +--- vendor-id uint32
    | | +---rw
    | | +--- attack-id uint32
    | | +---rw
    | | +--- attack-description? string
    | | +---rw
    | | +--- attack-severity? attack-severity
    | | +---rw
    | | +--- start-time? uint64
    | | +---rw
```

```

+-- end-time?                uint64
+--rw
+-- source-count
| +--rw +-- low-percentile-g?   yang:gauge64
| +--rw +-- mid-percentile-g?   yang:gauge64
| +--rw +-- high-percentile-g?  yang:gauge64
| +--rw +-- peak-g?            yang:gauge64
+--rw
+-- top-talker
+--rw
+-- talker* [source-prefix]
+--rw
+-- spoofed-status?          boolean
+--rw
+-- source-prefix             inet:ip-prefix
+--rw
+-- source-port-range* [lower-port]
| +--rw +-- lower-port         inet:port-number
| +--rw +-- upper-port?       inet:port-number
+--rw
+-- source-icmp-type-range* [lower-type]
| +--rw +-- lower-type         uint8
| +--rw +-- upper-type?       uint8
+--rw
+-- total-attack-traffic* [unit]
| +--rw +-- unit               unit
| +--rw +-- low-percentile-g?   yang:gauge64
| +--rw +-- mid-percentile-g?   yang:gauge64
| +--rw +-- high-percentile-g?  yang:gauge64
| +--rw +-- peak-g?            yang:gauge64
+--rw
+-- total-attack-connection
+--rw
+-- low-percentile-c
| +--rw +-- connection?        yang:gauge64
| +--rw +-- embryonic?         yang:gauge64
| +--rw +-- connection-ps?     yang:gauge64
| +--rw +-- request-ps?        yang:gauge64
| +--rw +-- partial-request-ps? yang:gauge64
+--rw
+-- mid-percentile-c
| +--rw +-- connection?        yang:gauge64
| +--rw +-- embryonic?         yang:gauge64
| +--rw +-- connection-ps?     yang:gauge64
| +--rw +-- request-ps?        yang:gauge64
| +--rw +-- partial-request-ps? yang:gauge64
+--rw
+-- high-percentile-c
| +--rw +-- connection?        yang:gauge64
| +--rw +-- embryonic?         yang:gauge64
| +--rw +-- connection-ps?     yang:gauge64
| +--rw +-- request-ps?        yang:gauge64
| +--rw +-- partial-request-ps? yang:gauge64
+--rw
+-- peak-c
+--rw
+-- connection?              yang:gauge64
+--rw
+-- embryonic?                yang:gauge64
+--rw
+-- connection-ps?            yang:gauge64
+--rw
+-- request-ps?                yang:gauge64

```

```

+---rw
+--- partial-request-ps? yang:gauge64
augment /ietf-signal:dots-signal/ietf-signal:message-type:

structure dots-telemetry:
+--- (telemetry-message-type)?
+--:(telemetry-setup) {dots-telemetry}?
| +---ro +--- (direction)?
| | +---:(server-to-client-only)
| | | +--- max-config-values
| | | +---ro | +--- measurement-interval? interval
| | | +---ro | +--- measurement-sample? sample
| | | +---ro | +--- low-percentile? percentile
| | | +---ro | +--- mid-percentile? percentile
| | | +---ro | +--- high-percentile? percentile
| | | +---ro | +--- server-originated-telemetry? boolean
| | | +---ro | +--- telemetry-notify-interval? uint32
| +---ro | +--- min-config-values
| | +---ro | +--- measurement-interval? interval
| | +---ro | +--- measurement-sample? sample
| | +---ro | +--- low-percentile? percentile
| | +---ro | +--- mid-percentile? percentile
| | +---ro | +--- high-percentile? percentile
| | +---ro | +--- telemetry-notify-interval? uint32
| +---ro | +--- supported-units
| | +---ro | +--- unit-config* [unit]
| | | +---ro | +--- unit unit-type
| | | +---ro | +--- unit-status boolean
| +---ro | +--- query-type* query-type
+---rw +--- telemetry* [cuid tsid]
| +---rw +--- cuid string
| +---rw +--- cdid? string
| +---rw +--- tsid uint32
| +---rw +--- (setup-type)?
| +---:(telemetry-config)
| | +---rw +--- current-config
| | | +---rw +--- measurement-interval? interval
| | | +---rw +--- measurement-sample? sample
| | | +---rw +--- low-percentile? percentile
| | | +---rw +--- mid-percentile? percentile
| | | +---rw +--- high-percentile? percentile
| | | +---rw +--- unit-config* [unit]
| | | | +---rw +--- unit unit-type
| | | | +---rw +--- unit-status boolean
| | | +---rw +--- server-originated-telemetry? boolean
| | | +---rw +--- telemetry-notify-interval? uint32
| +---:(pipe)
| | +---rw +--- total-pipe-capacity* [link-id unit]
| | | +---rw +--- link-id nt:link-id
| | | +---rw +--- capacity uint64
| | | +---rw +--- unit unit
| +---:(baseline)
| | +---rw +--- baseline* [id]
| | | +---rw +--- id
| | | | uint32
| | | +---rw +--- target-prefix*
| | | | inet:ip-prefix
| | | +---rw +--- target-port-range* [lower-port]
| | | | +---rw +--- lower-port inet:port-number
| | | | +---rw +--- upper-port? inet:port-number
| | | +---rw +--- target-protocol* uint8
| | | +---rw +--- target-fqdn*
| | | | inet:domain-name

```

```

|         +---+FW +--- target-uri*
|         |         inet:uri
|         +---+FW +--- alias-name*
|         |         string
|         +---+FW +--- total-traffic-normal* [unit]
|         |         +---+FW +--- unit                unit
|         |         +---+FW +--- low-percentile-g?    yang:gauge64
|         |         +---+FW +--- mid-percentile-g?    yang:gauge64
|         |         +---+FW +--- high-percentile-g?   yang:gauge64
|         |         +---+FW +--- peak-g?              yang:gauge64
|         +---+FW +--- total-traffic-normal-per-protocol*
|         |         [unit protocol]
|         |         +---+FW +--- protocol            uint8
|         |         +---+FW +--- unit                unit
|         |         +---+FW +--- low-percentile-g?    yang:gauge64
|         |         +---+FW +--- mid-percentile-g?    yang:gauge64
|         |         +---+FW +--- high-percentile-g?   yang:gauge64
|         |         +---+FW +--- peak-g?              yang:gauge64
|         +---+FW +--- total-traffic-normal-per-port* [unit port]
|         |         +---+FW +--- port                inet:port-number
|         |         +---+FW +--- unit                unit
|         |         +---+FW +--- low-percentile-g?    yang:gauge64
|         |         +---+FW +--- mid-percentile-g?    yang:gauge64
|         |         +---+FW +--- high-percentile-g?   yang:gauge64
|         |         +---+FW +--- peak-g?              yang:gauge64
|         +---+FW +--- total-connection-capacity* [protocol]
|         |         +---+FW +--- protocol            uint8
|         |         +---+FW +--- connection?          uint64
|         |         +---+FW +--- connection-client?   uint64
|         |         +---+FW +--- embryonic?           uint64
|         |         +---+FW +--- embryonic-client?    uint64
|         |         +---+FW +--- connection-ps?       uint64
|         |         +---+FW +--- connection-client-ps? uint64
|         |         +---+FW +--- request-ps?          uint64
|         |         +---+FW +--- request-client-ps?   uint64
|         |         +---+FW +--- partial-request-ps?  uint64
|         |         +---+FW +--- partial-request-client-ps? uint64
|         +---+FW +--- total-connection-capacity-per-port*
|         |         [protocol port]
|         |         +---+FW +--- port
|         |         |         inet:port-number
|         |         +---+FW +--- protocol            uint8
|         |         +---+FW +--- connection?          uint64
|         |         +---+FW +--- connection-client?   uint64
|         |         +---+FW +--- embryonic?           uint64
|         |         +---+FW +--- embryonic-client?    uint64
|         |         +---+FW +--- connection-ps?       uint64
|         |         +---+FW +--- connection-client-ps? uint64
|         |         +---+FW +--- request-ps?          uint64
|         |         +---+FW +--- request-client-ps?   uint64
|         |         +---+FW +--- partial-request-ps?  uint64
|         |         +---+FW +--- partial-request-client-ps? uint64
+---:(telemetry) {dots-telemetry}?
+---+FW
+---+FW +--- pre-or-ongoing-mitigation* [cuid tmid]
+---+FW +--- cuid                string
+---+FW +--- cdid?              string
+---+FW +--- tmid                uint32
+---+FW +--- target

```

```

| +---fW +-- target-prefix*      inet:ip-prefix
| +---fW +-- target-port-range* [lower-port]
| | +---fW +-- lower-port      inet:port-number
| | +---fW +-- upper-port?     inet:port-number
| +---fW +-- target-protocol*   uint8
| +---fW +-- target-fqdn*       inet:domain-name
| +---fW +-- target-uri*        inet:uri
| +---fW +-- alias-name*        string
| +---fW +-- mid-list*          uint32
+---fW
+-- total-traffic* [unit]
| +---fW +-- unit                unit
| +---fW +-- low-percentile-g?   yang:gauge64
| +---fW +-- mid-percentile-g?   yang:gauge64
| +---fW +-- high-percentile-g?  yang:gauge64
| +---fW +-- peak-g?            yang:gauge64
+---fW
+-- total-traffic-protocol* [unit protocol]
| +---fW +-- protocol            uint8
| +---fW +-- unit                unit
| +---fW +-- low-percentile-g?   yang:gauge64
| +---fW +-- mid-percentile-g?   yang:gauge64
| +---fW +-- high-percentile-g?  yang:gauge64
| +---fW +-- peak-g?            yang:gauge64
+---fW
+-- total-traffic-port* [unit port]
| +---fW +-- port                inet:port-number
| +---fW +-- unit                unit
| +---fW +-- low-percentile-g?   yang:gauge64
| +---fW +-- mid-percentile-g?   yang:gauge64
| +---fW +-- high-percentile-g?  yang:gauge64
| +---fW +-- peak-g?            yang:gauge64
+---fW
+-- total-attack-traffic* [unit]
| +---fW +-- protocol?           uint8
| +---fW +-- unit                unit
| +---fW +-- low-percentile-g?   yang:gauge64
| +---fW +-- mid-percentile-g?   yang:gauge64
| +---fW +-- high-percentile-g?  yang:gauge64
| +---fW +-- peak-g?            yang:gauge64
+---fW
+-- total-attack-traffic-protocol* [unit protocol]
| +---fW +-- protocol            uint8
| +---fW +-- unit                unit
| +---fW +-- low-percentile-g?   yang:gauge64
| +---fW +-- mid-percentile-g?   yang:gauge64
| +---fW +-- high-percentile-g?  yang:gauge64
| +---fW +-- peak-g?            yang:gauge64
+---fW
+-- total-attack-traffic-port* [unit port]
| +---fW +-- port                inet:port-number
| +---fW +-- unit                unit
| +---fW +-- low-percentile-g?   yang:gauge64
| +---fW +-- mid-percentile-g?   yang:gauge64
| +---fW +-- high-percentile-g?  yang:gauge64
| +---fW +-- peak-g?            yang:gauge64
+---fW
+-- total-attack-connection
| +---fW +-- low-percentile-l* [protocol]
| | +---fW +-- protocol            uint8
| | +---fW +-- connection?        yang:gauge64
| | +---fW +-- embryonic?         yang:gauge64
| | +---fW +-- connection-ps?     yang:gauge64

```

```

| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
| +---fW +-- mid-percentile-1* [protocol]
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
| +---fW +-- high-percentile-1* [protocol]
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
| +---fW +-- peak-1* [protocol]
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
+---fW
+-- total-attack-connection-port
| +---fW +-- low-percentile-1* [protocol port]
| | +---fW +-- port inet:port-number
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
| +---fW +-- mid-percentile-1* [protocol port]
| | +---fW +-- port inet:port-number
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
| +---fW +-- high-percentile-1* [protocol port]
| | +---fW +-- port inet:port-number
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
| +---fW +-- peak-1* [protocol port]
| | +---fW +-- port inet:port-number
| | +---fW +-- protocol uint8
| | +---fW +-- connection? yang:gauge64
| | +---fW +-- embryonic? yang:gauge64
| | +---fW +-- connection-ps? yang:gauge64
| | +---fW +-- request-ps? yang:gauge64
| | +---fW +-- partial-request-ps? yang:gauge64
+---fW
+-- attack-detail* [vendor-id attack-id]
+---fW
+-- vendor-id uint32
+---fW
+-- attack-id uint32

```

```

+---fW
+--- attack-description?    string
+---fW
+--- attack-severity?      attack-severity
+---fW
+--- start-time?           uint64
+---fW
+--- end-time?             uint64
+---fW
+--- source-count
| +---fW +--- low-percentile-g?    yang:gauge64
| +---fW +--- mid-percentile-g?   yang:gauge64
| +---fW +--- high-percentile-g?  yang:gauge64
| +---fW +--- peak-g?            yang:gauge64
+---fW
+--- top-talker
+---fW
+--- talker* [source-prefix]
+---fW
+--- spoofed-status?       boolean
+---fW
+--- source-prefix         inet:ip-prefix
+---fW
+--- source-port-range* [lower-port]
| +---fW +--- lower-port    inet:port-number
| +---fW +--- upper-port?  inet:port-number
+---fW
+--- source-icmp-type-range* [lower-type]
| +---fW +--- lower-type    uint8
| +---fW +--- upper-type?  uint8
+---fW
+--- total-attack-traffic* [unit]
| +---fW +--- unit          unit
| +---fW +--- low-percentile-g? yang:gauge64
| +---fW +--- mid-percentile-g? yang:gauge64
| +---fW +--- high-percentile-g? yang:gauge64
| +---fW +--- peak-g?      yang:gauge64
+---fW
+--- total-attack-connection
+---fW
+--- low-percentile-l* [protocol]
| +---fW +--- protocol      uint8
| +---fW +--- connection?  yang:gauge64
| +---fW +--- embryonic?   yang:gauge64
| +---fW +--- connection-ps? yang:gauge64
| +---fW +--- request-ps?  yang:gauge64
| +---fW +--- partial-request-ps? yang:gauge64
+---fW
+--- mid-percentile-l* [protocol]
| +---fW +--- protocol      uint8
| +---fW +--- connection?  yang:gauge64
| +---fW +--- embryonic?   yang:gauge64
| +---fW +--- connection-ps? yang:gauge64
| +---fW +--- request-ps?  yang:gauge64
| +---fW +--- partial-request-ps? yang:gauge64
+---fW
+--- high-percentile-l* [protocol]
| +---fW +--- protocol      uint8
| +---fW +--- connection?  yang:gauge64
| +---fW +--- embryonic?   yang:gauge64
| +---fW +--- connection-ps? yang:gauge64
| +---fW +--- request-ps?  yang:gauge64
| +---fW +--- partial-request-ps? yang:gauge64

```

```
+---rw
+--- peak-1* [protocol]
+---rw
+--- protocol                               uint8
+---rw
+--- connection?                           yang:gauge64
+---rw
+--- embryonic?                             yang:gauge64
+---rw
+--- connection-ps?                         yang:gauge64
+---rw
+--- request-ps?                           yang:gauge64
+---rw
+--- partial-request-ps?                    yang:gauge64
```