

DOTS data channel

draft-reddy-dots-data-channel-05

March 2017

Interim Meeting

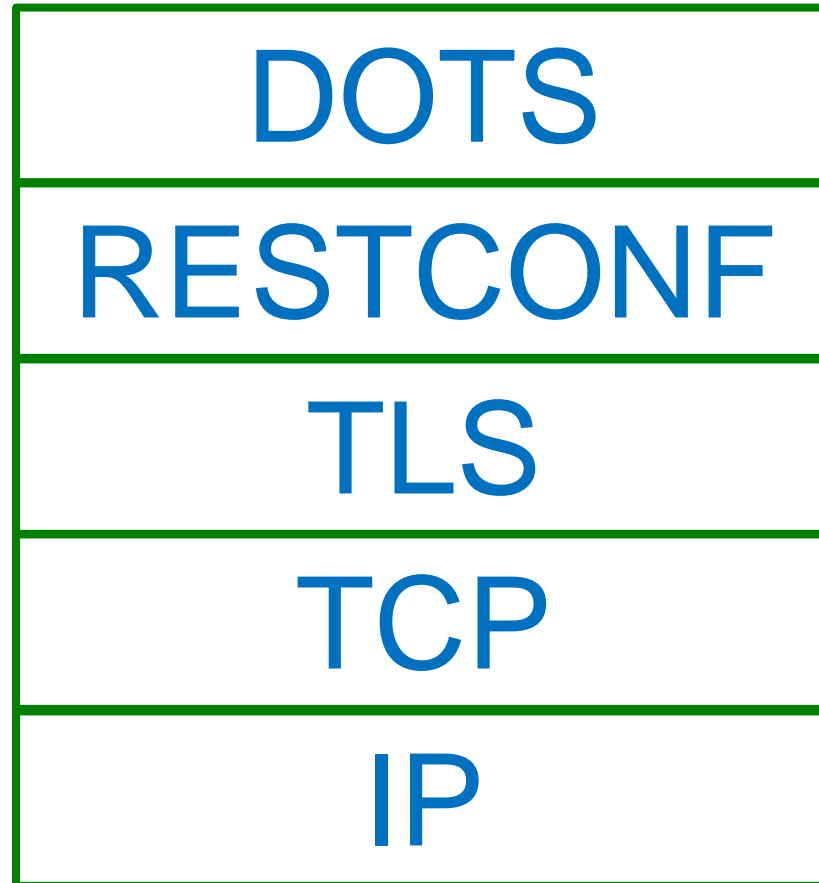
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Highlights

- DOTS data channel uses RESTCONF
- Added YANG Models
- Updated draft meets all data channel requirements discussed in draft-ietf-dots-requirements-02.

DOTS data channel



Why RESTCONF?

- RESTCONF combines the simplicity of the HTTP protocol with the predictability and automation potential of a schema-driven API.
- RESTCONF offers a simple subset of NETCONF functionality and provides a simplified interface using REST-like API.
- Addresses the needs of the DOTS data channel and hence an optimal choice.

RESTCONF

- POST, PUT and DELETE
- GET to retrieve config data or non-config data or both
- TLS heartbeat for liveness
- Retrieval of supported YANG models
 - Vendor specific YANG models

YANG Data models

- Identifier Model
- Filter Model

Identifier Model structure

```
module: ietf-dots-data-channel-identifier
  +--rw identifier
    +--rw alias* [alias-name]
      +--rw alias-name          string
      +--rw ip*                 inet:ip-address
      +--rw prefix*            inet:ip-prefix
      +--rw port-range* [lower-port upper-port]
        | +--rw lower-port      inet:port-number
        | +--rw upper-port      inet:port-number
      +--rw traffic-protocol*   uint8
      +--rw FQDN*               inet:domain-name
      +--rw URI*                inet:uri
      +--rw E.164*              string
```

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- Comments and questions
- Consider adoption of this document as WG item.