

Structured Data for DNS Access Denied Error Page

draft-wing-dnsop-structured-dns-error-page-00

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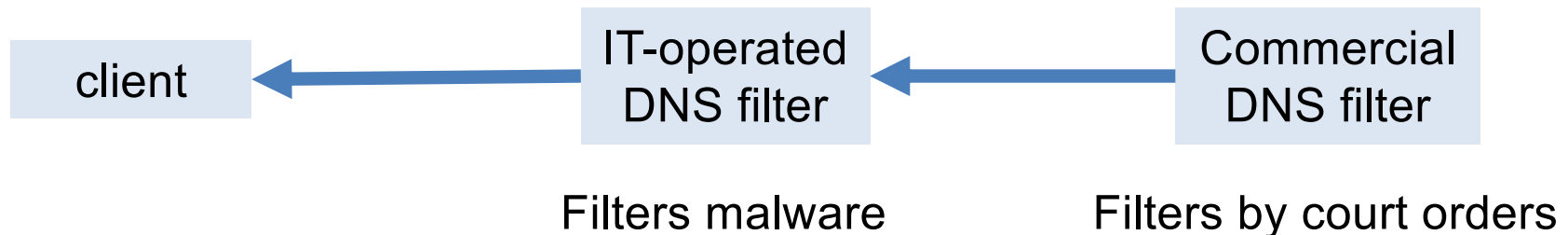
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Purpose

- Parsable JSON for user and IT troubleshooting
DNS filtering
- Client displays/logs the JSON with its own UI
- Headless devices (IoT)
- Companion to draft-reddy-dnsop-error-page

Design

- Accommodates multiple filtering services



- Protocol permits IT organization to occlude, or pass along, details from upstream DNS filters
 - Correcting upstream filters often requires IT help

Example JSON

```
{  "responsible": [ {  
    "complaint": [  
        "mailto:helpdesk@example.net?subject=\"  
incorrect filtering of example.org at 1621902483\"",  
        "https://mistakes.example.net?domain=  
example.org?time=1621902483",  
        "tel:+18305551212" ],  
    "justification": "malware present for 23  
days",  
    "name": "example.net Filtering Service",  
    "regulation": "https://laws.example.net?coun  
try=atlantis"  
    } ] }
```

Deployment Considerations

- Filtering comes and goes
 - Avoid “works fine now” frustration
- URIs should detail ‘when’ or ‘why’
 - Time of filtering, cause of filtering, encrypted detailed reason, ...
- Implementation specific

Discussion: draft-wing-dnsop-structured-dns-error-page-00

- Move forward
- Changes