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# Implementation effort

OPES WG meeting on 57<sup>th</sup> IETF in  
Wien, Österreich

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# Content

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- Motivation and Targets
- BTW TCP proxy and OPES processor
- WebWasher's OCP Callout server prototype
- Example/Demo

# Motivation and Targets

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- Create first prototype for evaluation and (self-)motivation
- Verify that OPES processor and callout server written by different programmers communicate via OCP.
- Start with HTTP
- Compare vs. ICAP
- Check performance

# OPES Processor / Callout server

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- OPES processor
  - Written by Alex Rousskov
  - Called BTW (Bump in The Wire)
  - Is a dump TCP proxy that understands HTTP message boundaries.
- Callout server
  - Written by Martin Stecher
  - WebWasher-Special-Prototype-Version

# WebWasher's OCP server

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- Early prototype
- Starting with HTML filters (e.g. Ad-Banner-Filter)
- Does not do negotiations yet
- Handles identity encoding only
- For HTML files the HTTP response header is always changed to close the connection

# First tests

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- Will start very soon
- Until now you can only telnet simulated OCP commands to the callout server

# Test commands to send

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```
CS;  
NO  
  ({ "41:http://iana.org/opes/ocp/HTTP/transaction" }, { "29:http  
    ://iana.org/opes/ocp/MIME" } );  
SGC 10 ( {"23:webwasher.com/ad-filter"} );  
TS 88 10;  
AMS 88 1;  
DUM 88 1 0  
AM-Part: request-header  
65:GET /opes/adsample.html HTTP/1.1  
Host: www.martin-stecher.de  
  
;  
DUM 88 1 65  
Kept: 0  
AM-Part: response-header  
64:HTTP/1.1 200 OK  
Content-Type: text/html  
Content-Length: 95
```

# Test commands to send (cont.)

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```
DUM 88 1 129
Kept: 64
AM-Part: response-body
26:<html>
<body>
This is my;
DUM 88 1 155
Kept: 90
AM-Part: response-body
69: new ad: 
</body>
</html>
;
AME 88 1 200;
TE 88 200;
```

# Real response

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```
TS 88;  
AMS 88 1;  
DUM 88 1 0  
AM-Part: response-header  
63:HTTP/1.1 200 OK  
Connection: close  
Content-Type: text/html  
  
;  
DUM 88 1 63  
AM-Part: response-body  
26:<html>  
<body>  
This is my;  
DUM 88 1 89  
AM-Part: response-body  
69: new ad:   
</body>  
</html>  
;  
TE 88 {200,ok};
```

# Playing around (1)

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- Change content type
- Message will not longer be filtered

```
TS 88;  
AMS 88 1;  
DUY 88 1 0 64;  
DUY 88 1 64 90;  
DUY 88 1 90 159;  
TE 88 {200,ok};
```

# Playing around (2)

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- Change content type and remove “Kept”

```
TS 88;  
AMS 88 1;  
DUM 88 1 0  
AM-Part: response-header  
64:HTTP/1.1 200 OK  
Content-Type: text/xxxx  
Content-Length: 95  
  
;  
DUM 88 1 64  
AM-Part: response-body  
26:<html>  
<body>  
This is my;  
DUM 88 1 90  
AM-Part: response-body  
69: new ad:   
</body>  
</html>  
;  
TE 88 {200,ok};
```

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