Address Books

- Email address books for most major webmail are collected as stand-alone sessions (no content present*)

- Address books are repetitive, large, and metadata-rich

- Data is stored multiple times (MARINA/MAINWAY, PINWALE, CLOUDs)

- Fewer and fewer address books attributable to users, targets

- Address books account for ~ 22% of SSO's major accesses (up from ~ 12% in August)

Access (10 Jan 12)	Total Sessions	Address Books
US-3171	1488453	237067 (16% of traffic)
DS-200B	938378	311113 (33% of traffic)
US-3261	94132	2477 (3% of traffic)
US-3145	177663	29336 (16% of traffic)
US-3180	269794	40409 (15% of traffic)
US-3180 (16 Dec 11)	289318	91964 (32% of traffic)
TOTAL	3257738	712366 (22% of traffic)

Provider	Collected	Attributed	Attributed%
Yahoo	444743	11009	2.48%
Hotmail	105068	1115	1.06%
Gmail	33697	2350	6.97%
Facebook	82857	79437	95.87%
Other	22881	1175	5.14%
TOTAL	689246	95086	13.80%

Serendipity – New Protocols

```
(. .█▨........ŏ...
].ô.█▨▨      @hotmMJŏiÔ.  What was your first phone numberÚ.          ú..
].Êú█92}►.█▨..█84.█83.█▨..█90.█96ÿ█92}►...6█90.à█▨ÔÁ...K█90.█8E╝ËÄ...  █90.Ï¬æÅ...7█90.Î²ÄÍ...█98.█90.╜ᶱ¸Õ.
X..█90.ÍÍÃý...«!-.╝åþ   .ðB°..Ó.Ø..â.            ë..BDò..ø.█9Eãåô°%ô.Ð█▨ÍÍ฿°⒜èÎÕ§█▨âⒶð.
].. X@÷áÛ█2cÛ█90±.HÀÉö█96®Í¢..█▨.
```

Serendipity – HTTP Demux

```
**eoc2c

GU0XlHdS/4k8YWAc1iiPGd/NvriOvYa1bo1uzcaFdZcyfpHeg9rFTIytsjXoUyZnngI4l7JMAJHZ9M9ZXYwZU9qxvBwOLKZGBYlsvC43iUBvCrf4elcP2Pxs35+L
Cache-Control: no-cache
```

```
POST /gateway/gateway.dll?Action=poll&Lifespan=60&SessionID=868216649.1709645966 HTTP/1.1
Host: baymsg1030124.gateway.messenger.live.com
User-Agent: Mozilla/5.0 (Windows NT 5.1; rv:14.0) Gecko/20100101 Firefox/14.0.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
X-Requested-Session-Content-Type: text/html
Content-Type: text/html; charset=utf-8
Pragma: No-Cache, no-cache
X-MSN-Auth: Use-Cookie
Referer: http://baymsg1030124.gateway.messenger.live.com/xmlProxy.htm?vn=9.090515.0&domain=live.com
Content-Length: 0
Cookie: wlidperf=latency=14338&throughput=0; mkt0=en-AF; wla42=cHJveHktYmF5LnB2dC1jb250YW5ocy5tc24uY29tfGJ5MSoxLDgzMTYzNjI1N
Cache-Control: no-cache


NENE

**eotxt
```

> POST in middle of session