TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL//20291123 Phone Number Extractor October 2009

TOP SECRET#COMINT#REL TO USA, AUS, CAN, GBR, NZL#20291123

DERIVED FROM: NSA/CSSM 1-52

80

Where are Phone Numbers seen in DNI?



- Phone Numbers are located in MANY parts of DNI traffic
 - "Contact Us" parts of web pages
 - Signature Lines
 - Address Books
 - "Leaked" as METADATA in Mobile HTTP traffic
 - Collected as converged data from GPRS/CDMA/WLL traffic
 - Collected in signaling of VOIP traffic

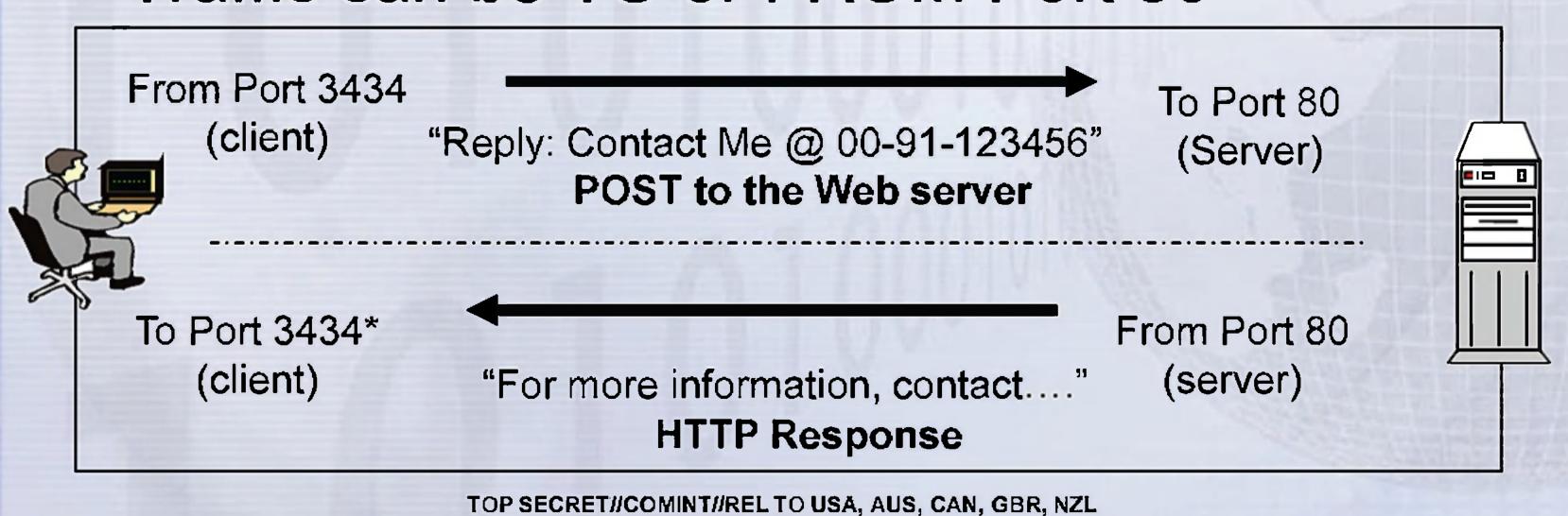
Phone Numbers in "Content"



- Looking inside the body of content, the Phone Number Extractor Looks for:
 - Telephony-related terms in the body of traffic and parses out any digits after that
 - Ex: "Tel:" or "Mobile" or "Fax" or "
 - Note that all punctuation is removed.
 - i.e. (92) 928.555-555 becomes 92928555555

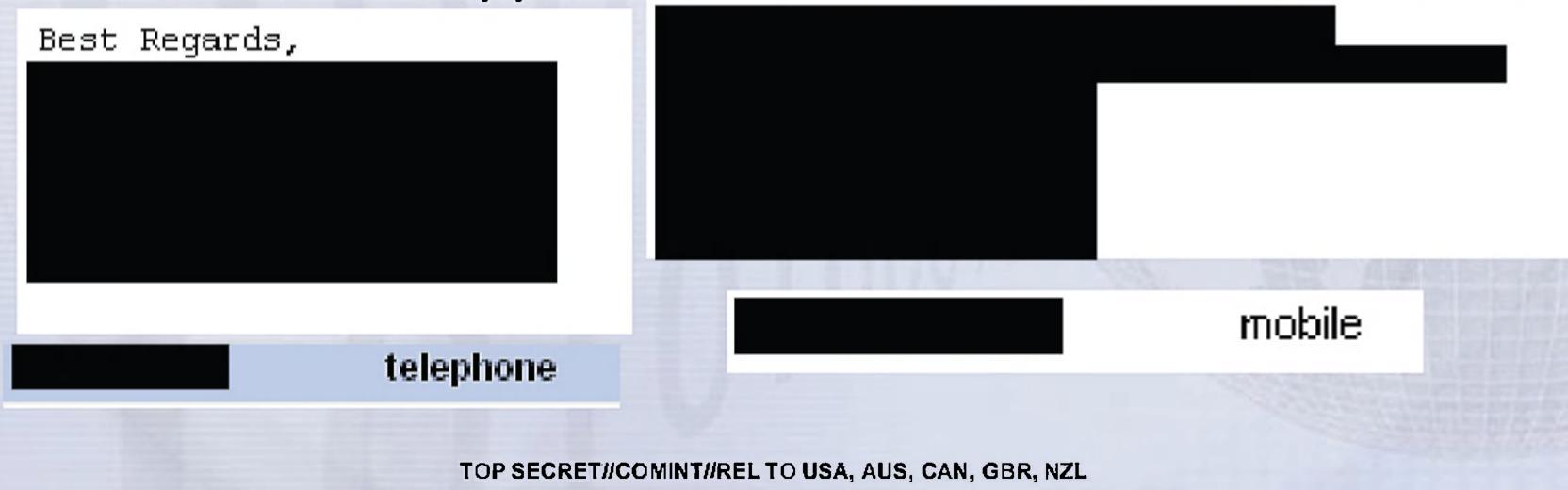
Phone Numbers on Websites

- CE STORE
- Many times phone numbers are in the body of a website
 - "Contact-Us"
 - Craigslist-like websites listing items for sale
 - Forums, etc...
- Traffic can be TO or FROM Port 80



Normalization problems

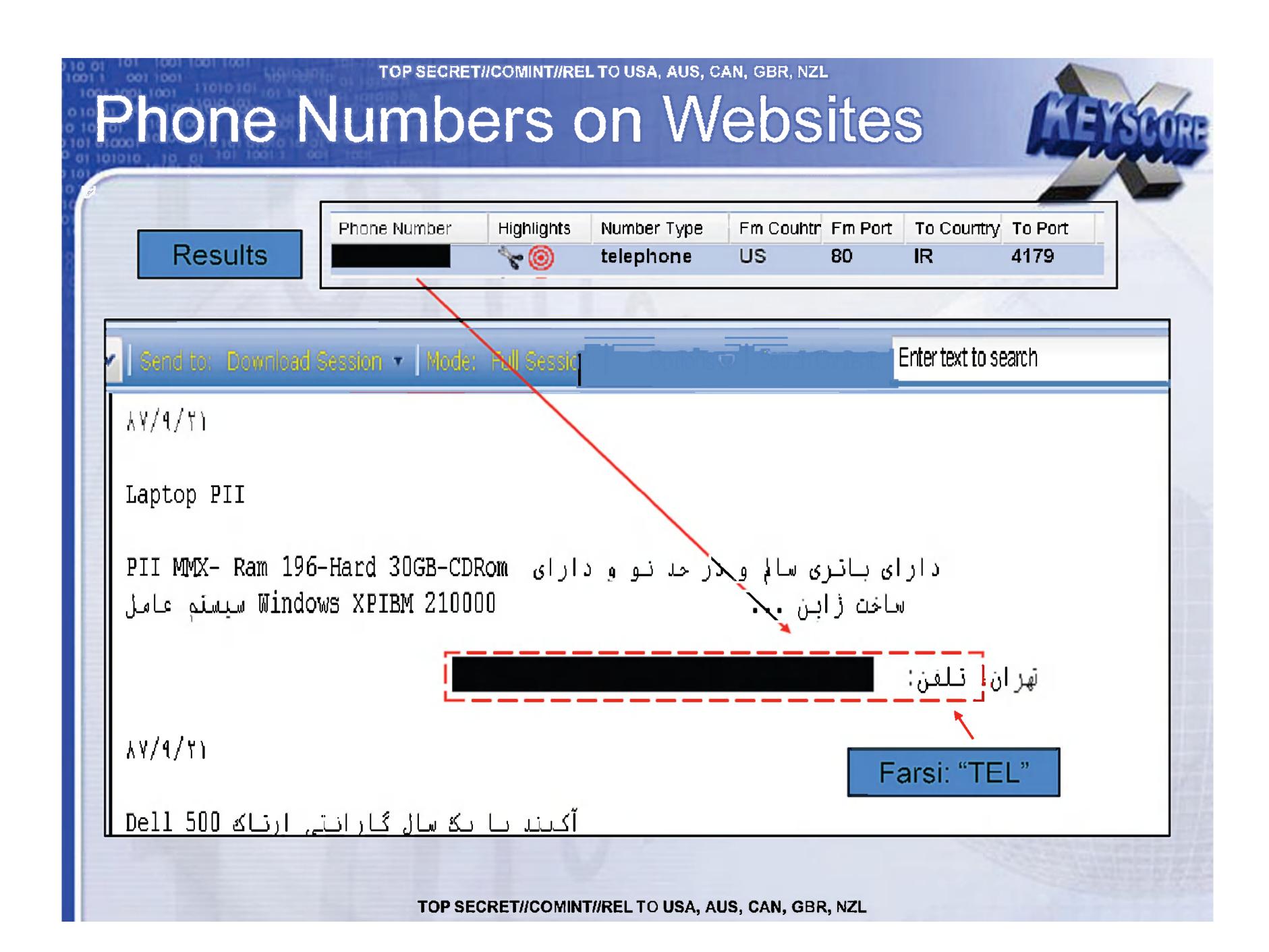
- When a phone number is in the "body" of traffic, like a signature block or a "contact us" line on a webpage, it doesn't have to be normalized.
- XKS will extract the number exactly how it appears (minus punctuation and leading 0's) which can create problems.
- Look what happens to the '0' happen here:



Phone Numbers on Websites



	Search: Phone Number Extractor							
		Query Name:	IRGC					
		Justification:	Iranian Phone numbers for IRGC Recent Justifical					
Ħ		Additional Justification:						
C	Query	Miranda Number:						
		Datetime:	3 Days Start: 2009-10-03 00:00 \$ Stop					
		Phone Number:						
		Port:	80 From 🔀					
		Port:	To 💌					
		Country:	From 🔽					
		Country:	IR To					
		TOP SECRET	「//COMINT//REL TO USA, AUS, CAN, GBR, NZL					



Phone Numbers in SIG Blocks



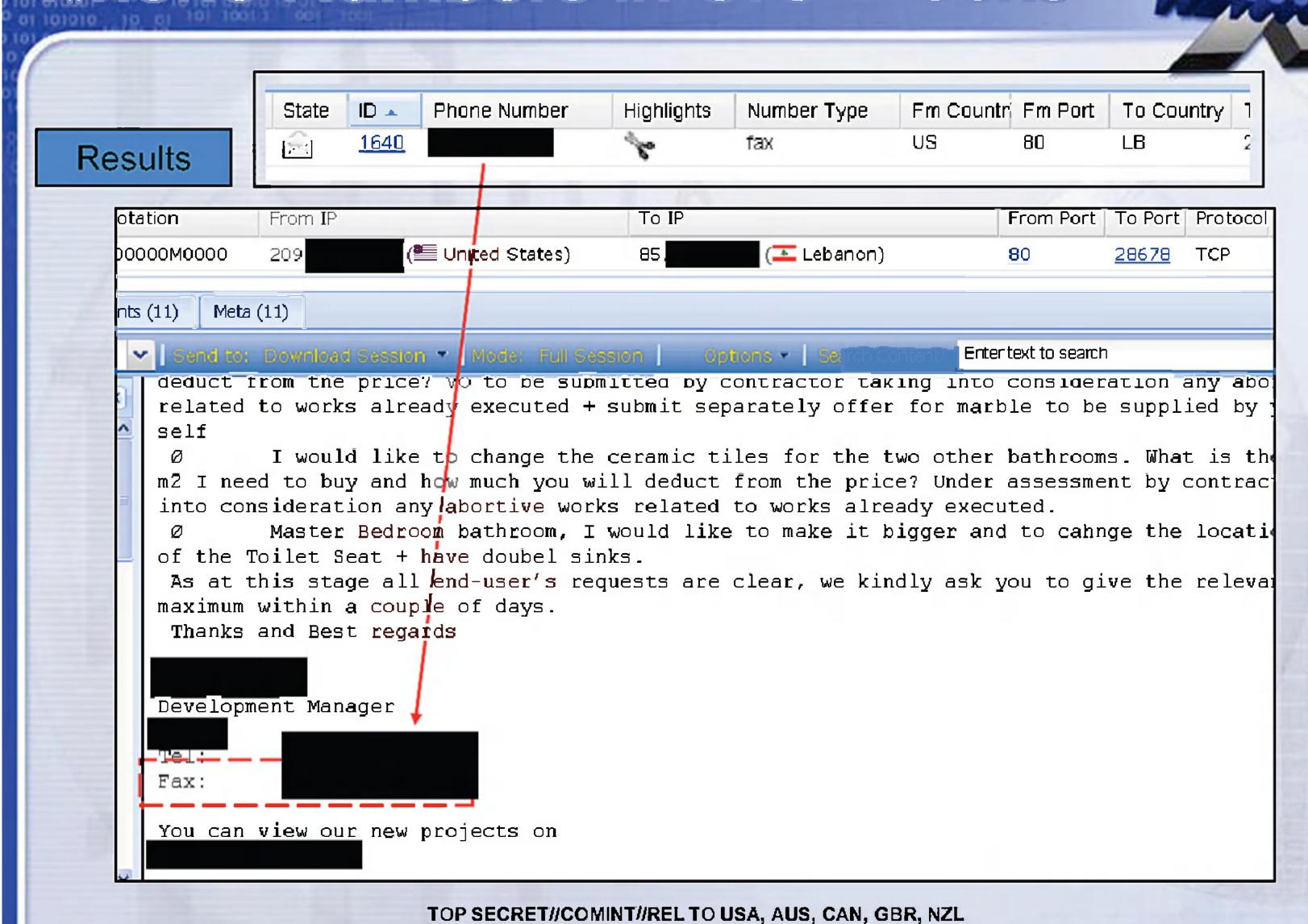
- Signature lines are SELECTOR-RICH environments (Emails, phones, names, titles, etc..)
 - Many SIG blocks have extraneous characters/numbers
 - XKS ignores dashes, parenthesis, etc..
 - XKS only parses out the numbers after

Phone Numbers in SIG Blocks



	Search: Phone Number Extra		
	Query Name:		
A	Justification:	possible Lebanese hizb Procurement front company	Recent Justificatio
L	Query dditional Justification:		~
	Miranda Number:		
	Datetime:	3 Days Start: 2009-10-03	00:00 🔷 Stop:
	Phone Number:		

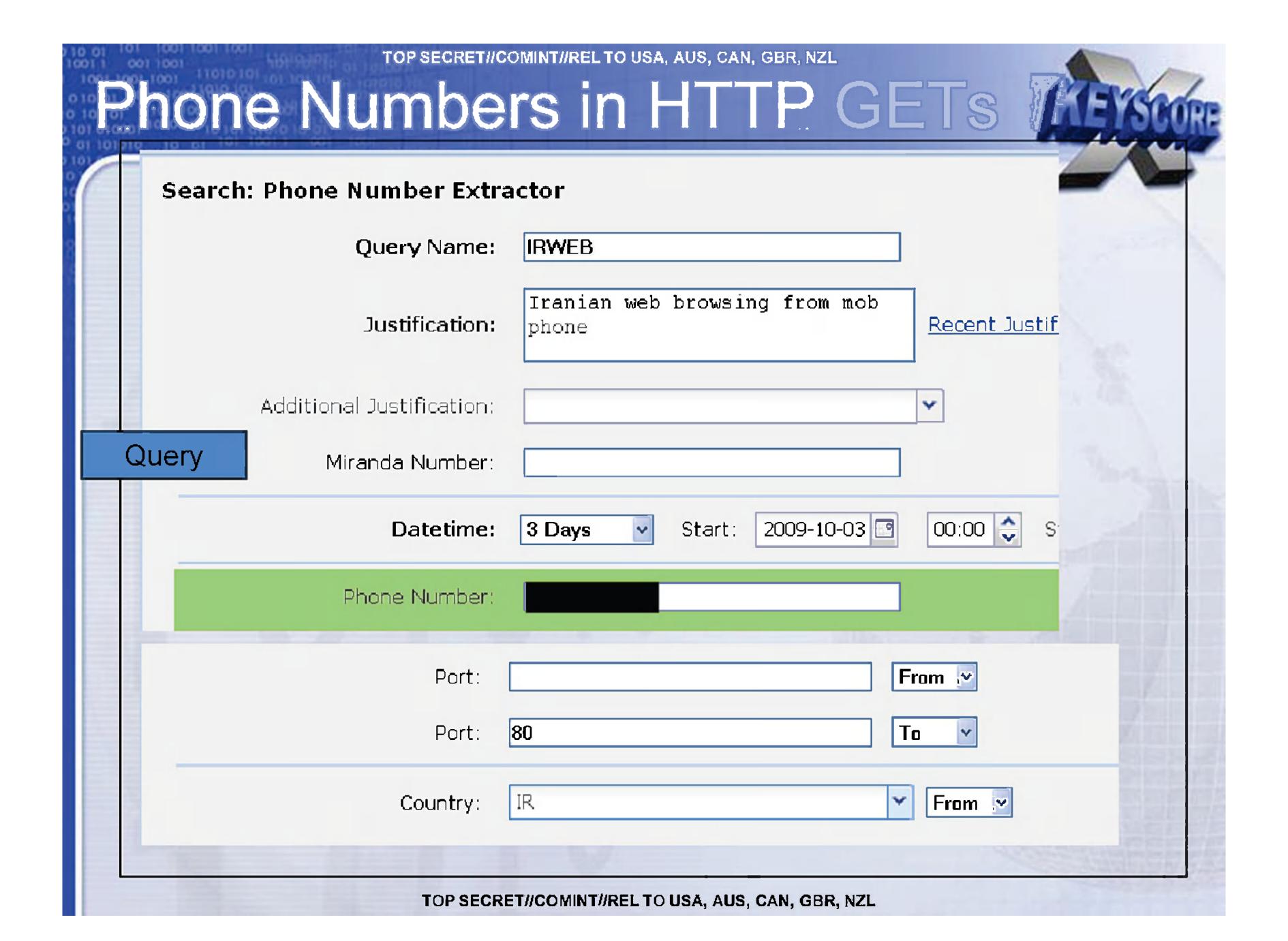
Phone Numbers in SIG Blocks



Phone Numbers in HTTP GETs

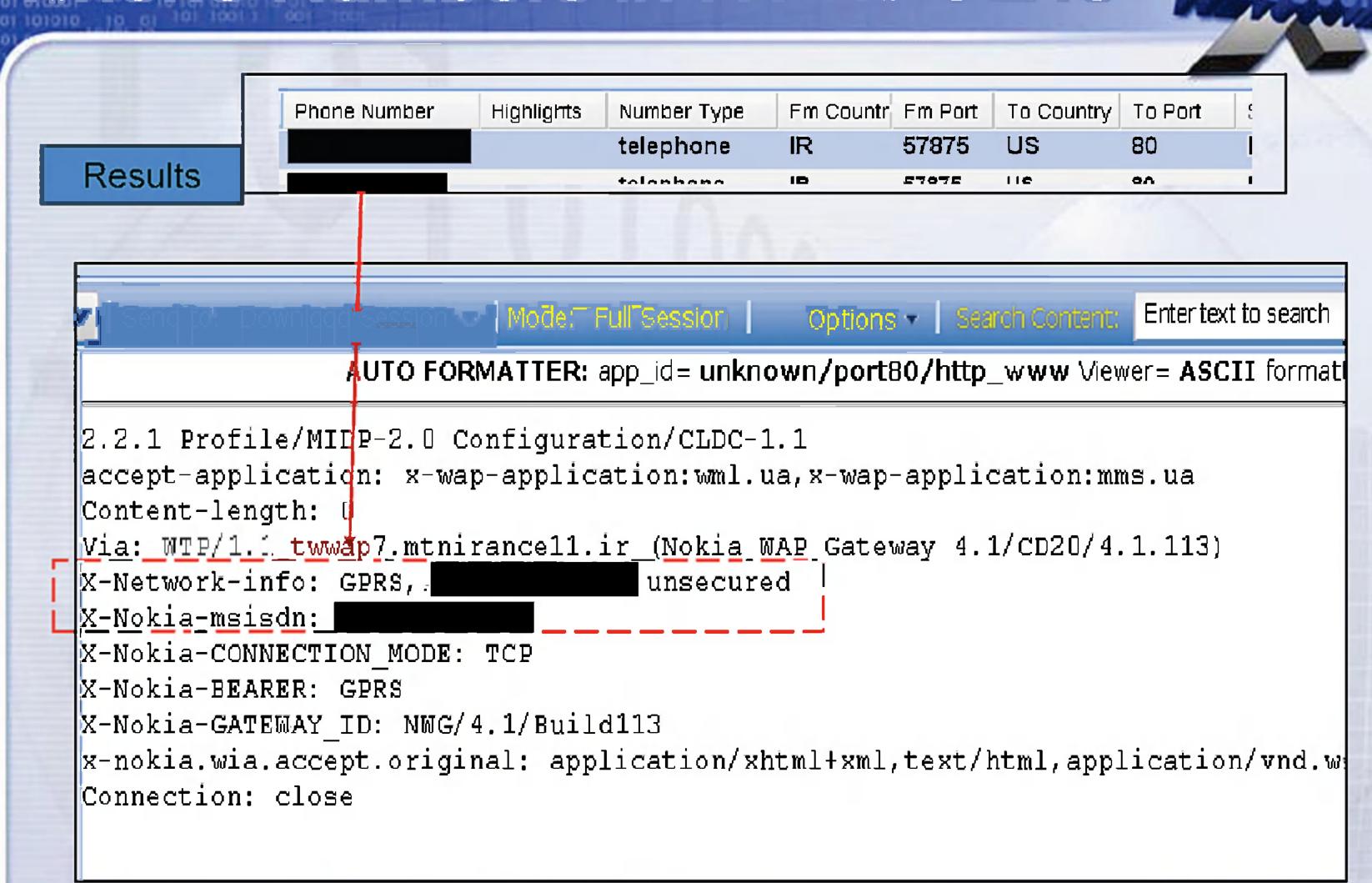


- HTTP GET Requests contain many "leaked" phone numbers from the providers
 - GPRS activity commonly seen with DNR selectors





Phone Numbers in HTTP GETs

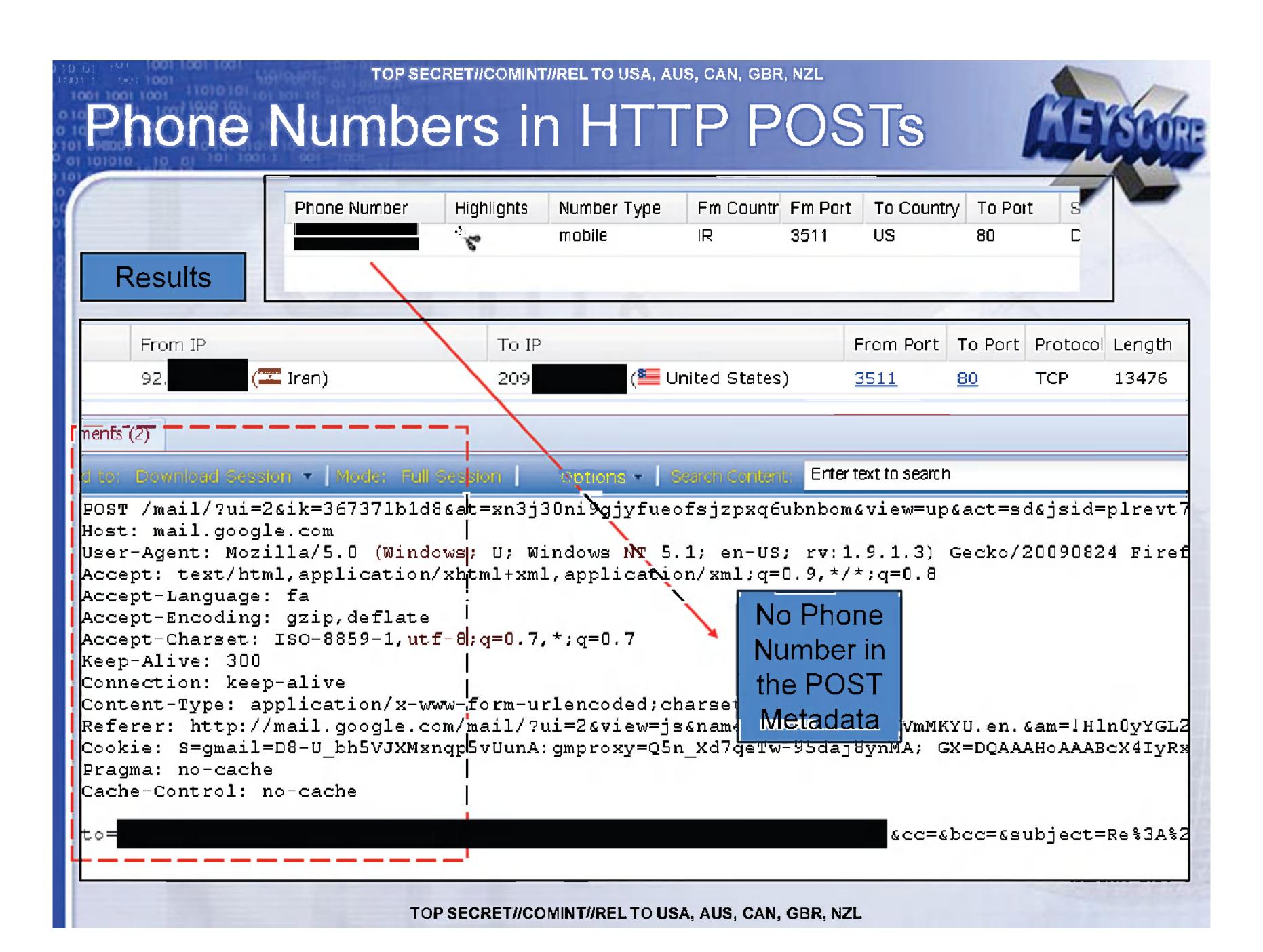


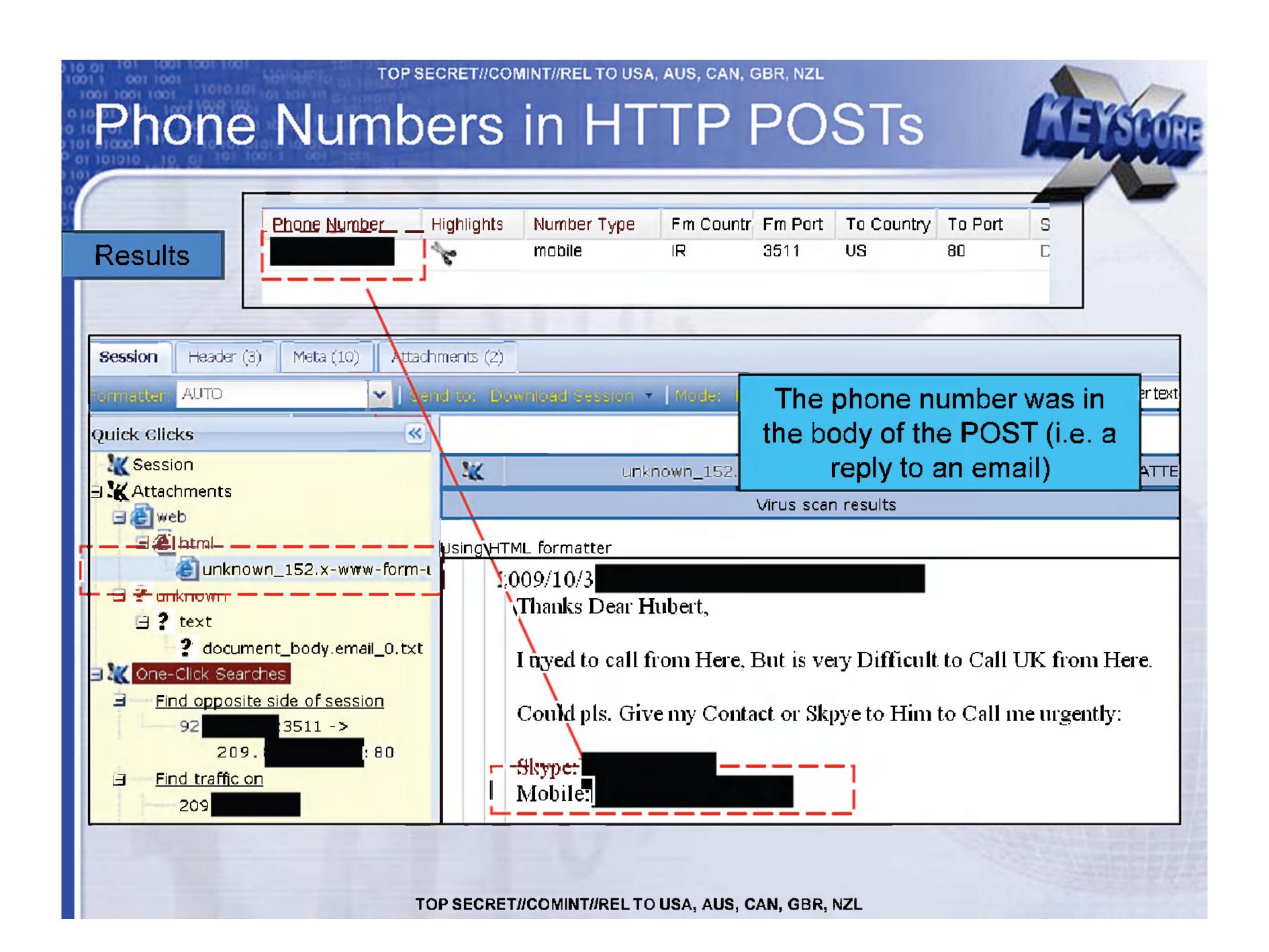
Phone Numbers in HTTP POSTs

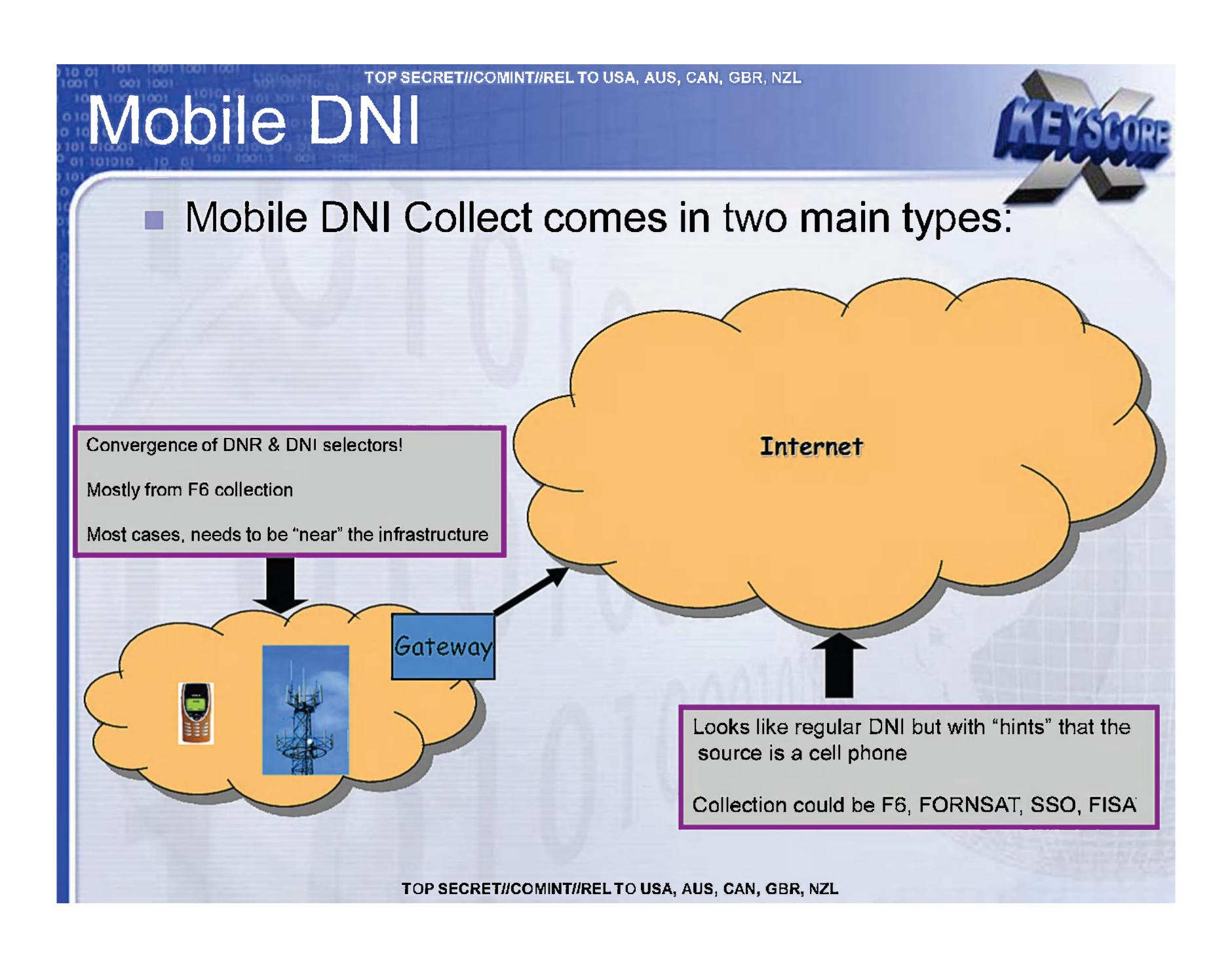


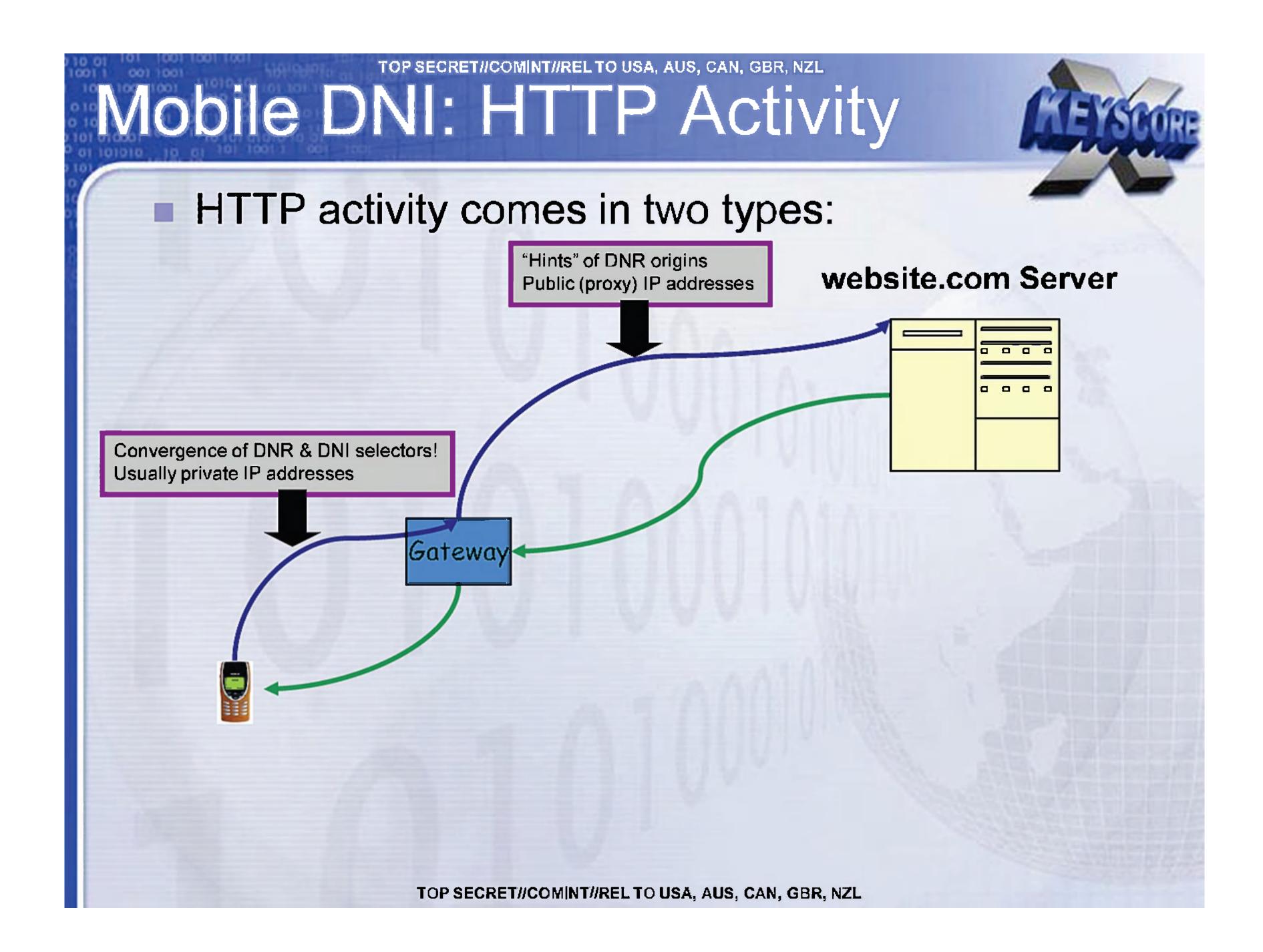
- Many times a phone number is submitted in an HTTP "POST" session
 - If a person fills in a form or replies to an email, the information in the body will be collected

TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL Phone Numbers in HTTP POSTs Fields Advanced Features Show Hidden Search Fields Clear Search Values Reload Last Search Values Search: Phone Number Extractor Query Name: iranbrowsing web browsing from poss irgc Justification: Recent Justifications Additional Justification: Query Miranda Number: 00:00 2009-09-24 🍱 Stop: 20 2 Weeks Datetime: Start: Phone Number: Port: From 🛂 Port: 80 To Country: IR From 🛂 TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL









Phone Numbers From Converged Collection



 USER_A
 ACTIVITY
 USER_B
 COOKIE
 ACTIVE_USER
 ACTIVE_USER

 <yahoo>
 seen with machine ID
 IMSI>
 <IMSI>
 <IMSI>
 <yahoo>
 202.

Query

Phone Number:

	Datetime	Datetime End	Phone Number	Number Type	Country Code	Area
R	2009-10-05 17:12:59	2009-10-05 17:12:59		inisi	pk	Mobilink
	2009-10-05 17:13:49	2009-10-05 17:13:55		imsi	pk	Mobilink
	2009-10-05 17:13:11	2009-10-05 17:13:11		imsi	pk	Mobilink
	16:07	2009-10-05 17:16:07		imsi	pk	Mobilink
	Results 15:16	2009-10-05 17:15:18		imsi	pk	Mobilink
	2009-10-05 17:16:17	2009-10-05 17:16:17		imsi	pk	Mobilink
	2009-10-05 17:18:28	2009-10-05 17:18:28		imsi	pk	Mobilink
	2009-10-05 17:18:28	2009-10-05 17:18:28		imsi	pk	Mobilink
	2009-10-05 17:19:11	200:)-10-05 17:19:18		imsi	pk	Mobilink