

SIP Forum User Agent Configuration

One protocol to find them all
and on the network configure them.

The Problem

- SIP User Agents (mostly phones) are not plug-and-play – even a minimal SIP configuration usually requires:
 - Domain or server name(s)
 - User identities
 - Options compatible with the service
- Configuration complexity is a significant barrier to adoption

Goals

- Discover where the UA is (IP parameters)
- Discover the domain to ask for configuration
- Locate the UA Configuration Service for the domain
- Request a configuration
 - Service selects/generates configuration based on user or device (service decides)
- Find out when the configuration changes

Non-Goals

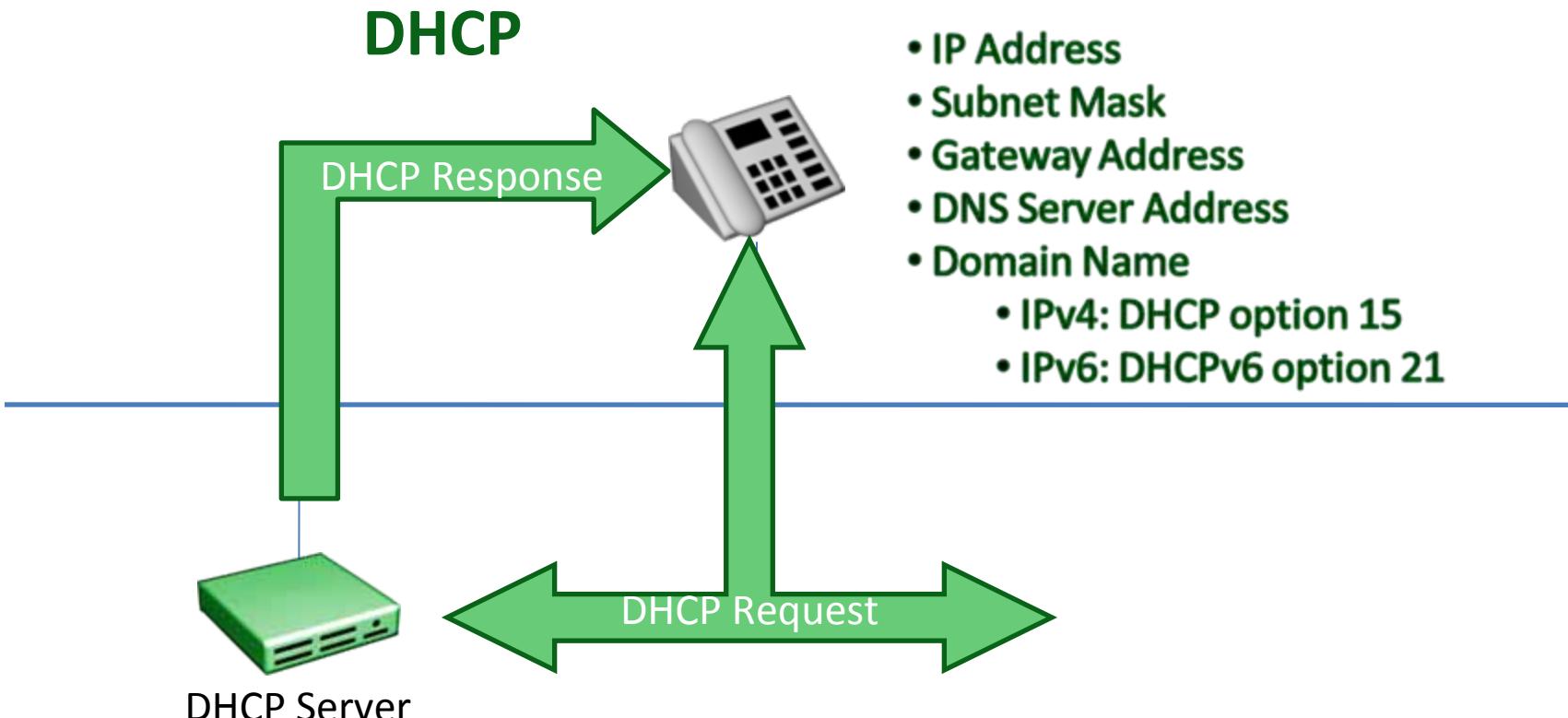
- Configuration data format
 - UA Configuration Service provides a configuration in the format required by the UA.
- Multiple sources of configuration
 - UA Configuration Service provides a complete configuration.

UA wakes up



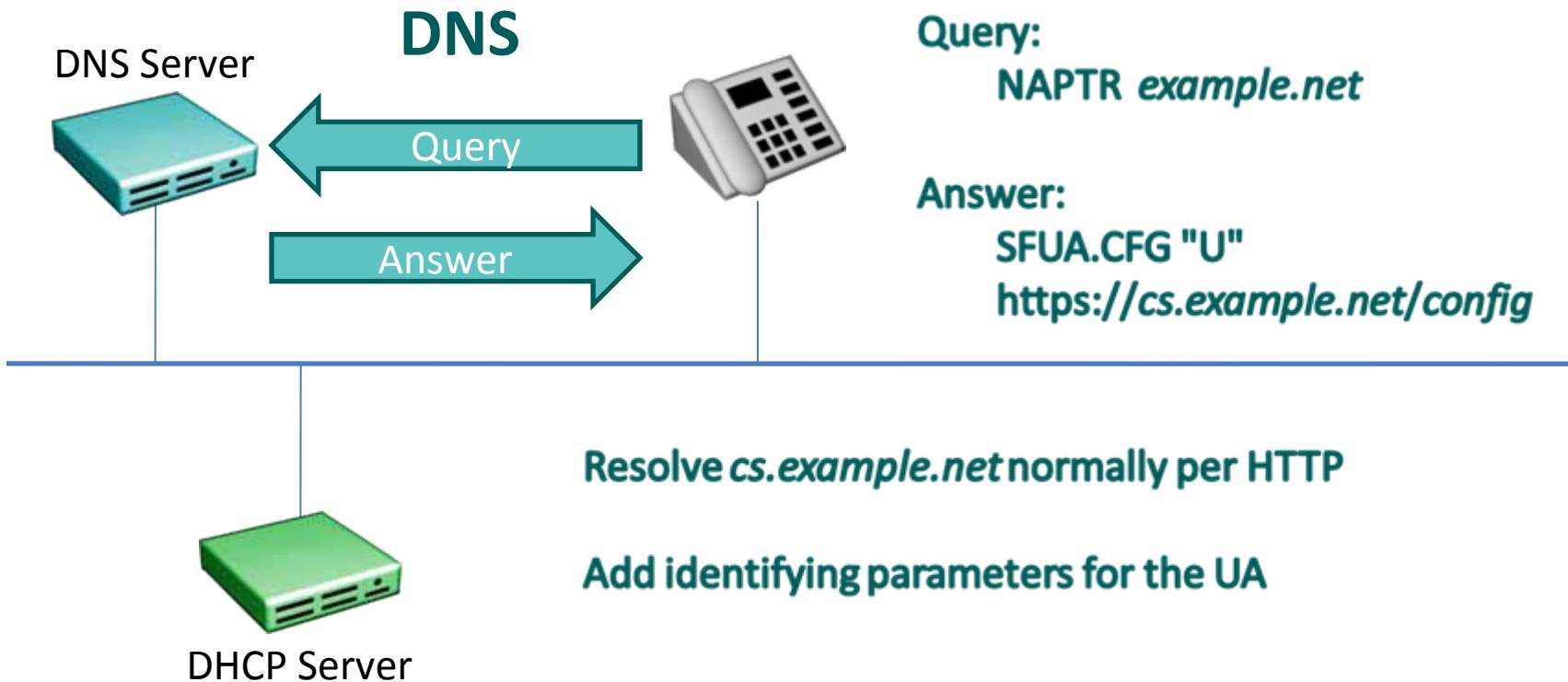
Prior configuration may determine whether or not the UA attempts to use this configuration process, including which steps may be skipped.

Get Local Network Information



To get configuration for the local SIP domain,
start with the Domain Name

Find Configuration Service URL

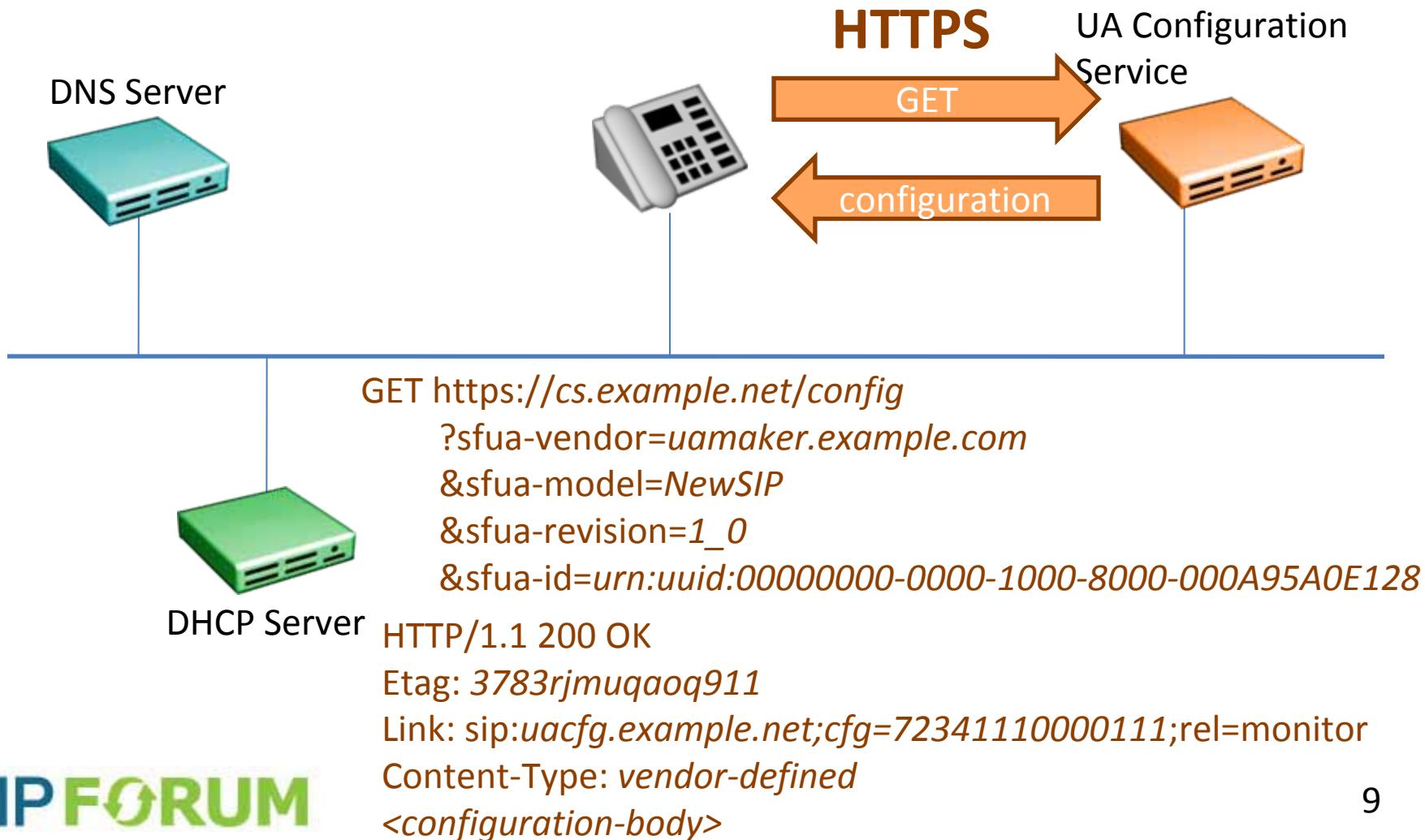


Identifying HTTP Query Parameters

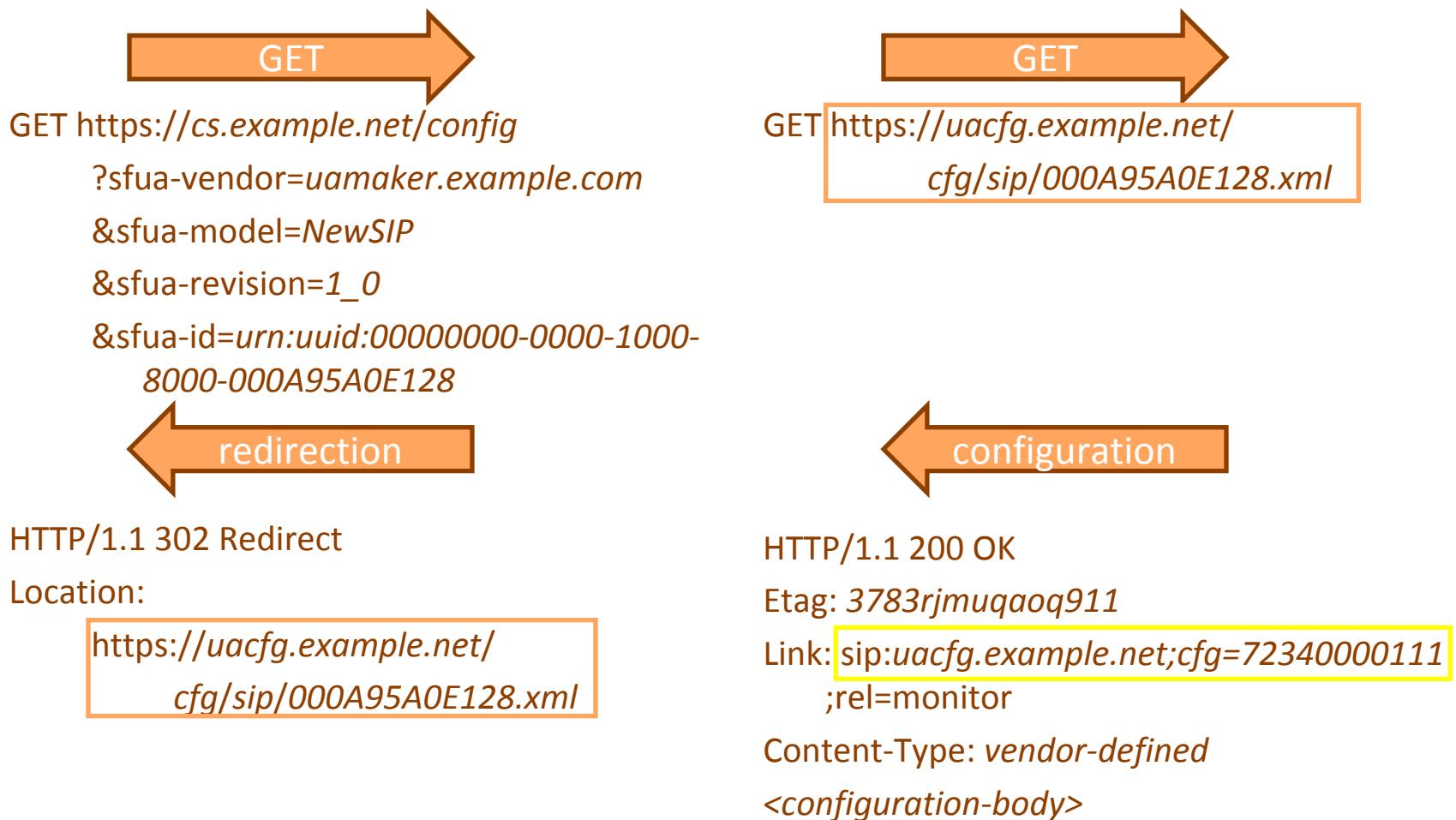
Name	Meaning	Syntax
sfua-user	The user	RFC 3261 ‘user’
sfua-id	The User Agent instance (UUID)	URN as defined in RFC 5626 (outbound)
sfua-vendor	The vendor of the User Agent	DNS domain name
sfua-model	The model of the User Agent Chosen by the vendor	RFC 3261 ‘token’
sfua-revision	The version within the model value of the User Agent	RFC 3261 ‘token’
<i>generic-param (name must not start with 'sfua-')</i>	anything	RFC 3261 ‘token’

UA sends all values it knows; Service ignores any it does not need

Request SIP UA Configuration

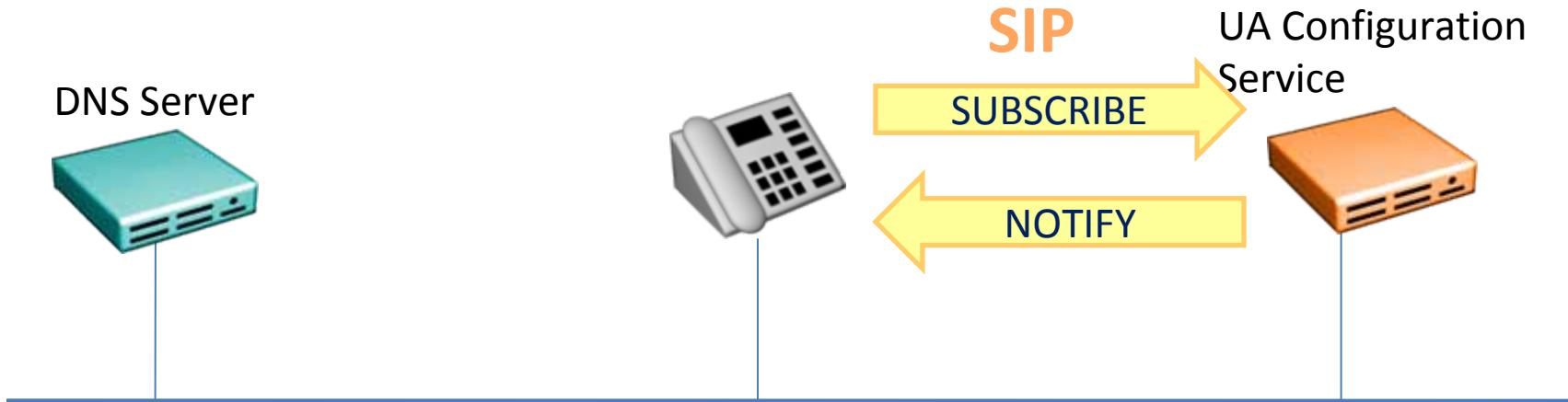


HTTP Flexibility



Request Change Notices

draft-roach-http-subscribe



SUBSCRIBE `sip:uacfg.example.net;cfg=72340000111`

Event: http-monitor

NOTIFY ...

Content-Type: message/http

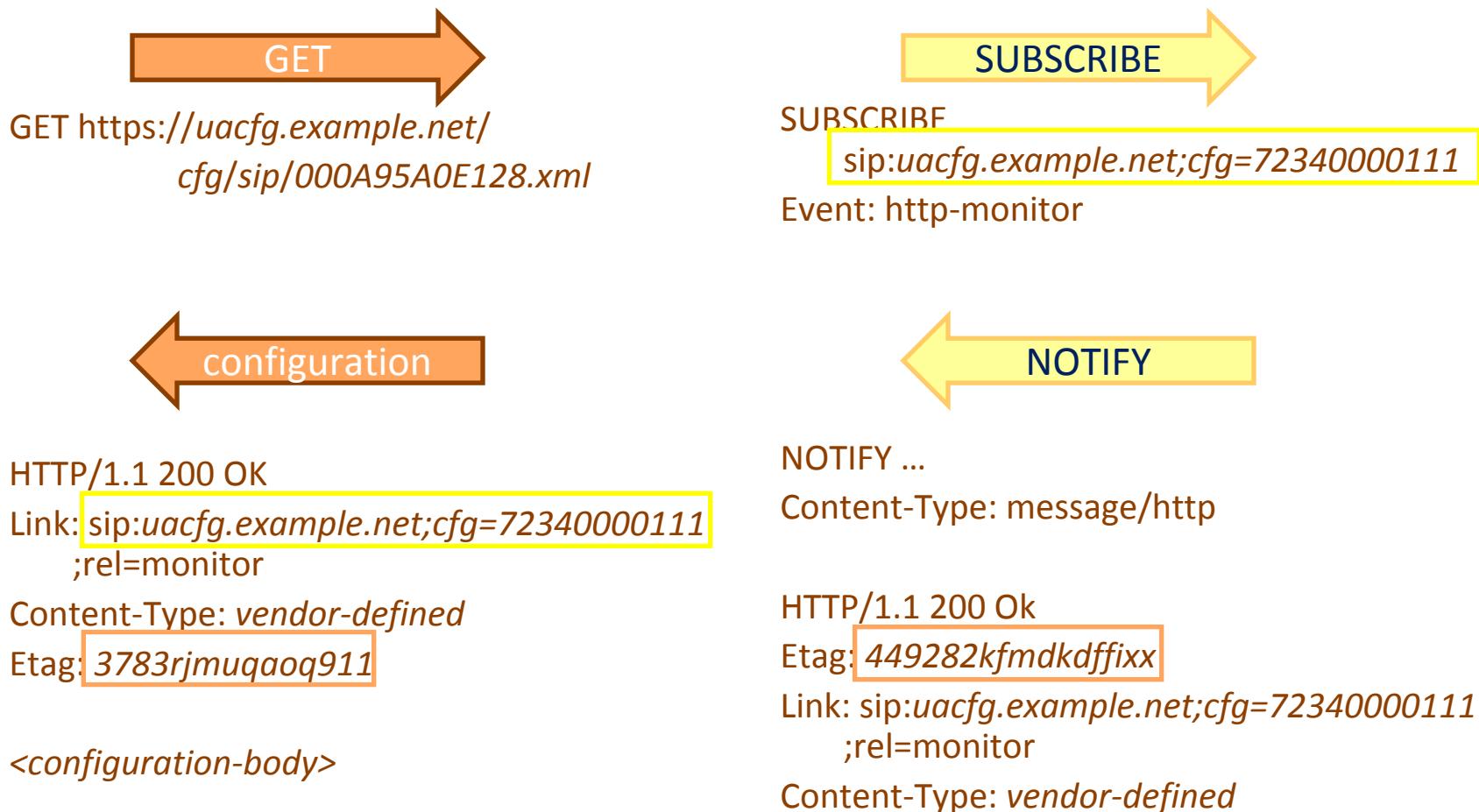
HTTP/1.1 200 Ok

Etag: `3783rjmuqaoq911`

Link: `sip:uacfg.example.net;cfg=72340000111;rel=monitor`

Content-Type: vendor-defined

SIP Subscription to HTTP Resource



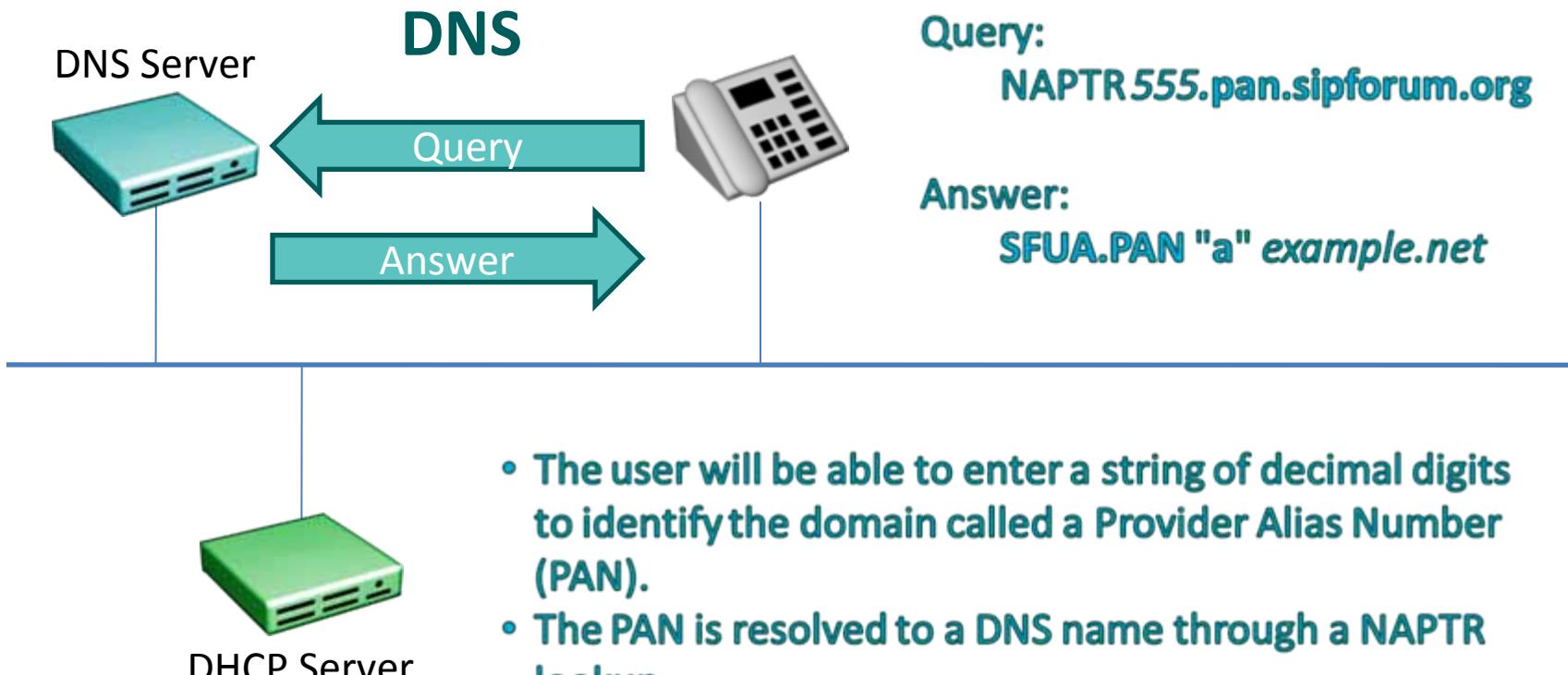
Status

- The SIP Forum Board of Directors have made the decision to submit the specification as an Internet-Draft (I-D) to the IETF to seek publication as an RFC:
[draft-lawrence-sipforum-user-agent-config](#)
- The I-D is following the AD-sponsored route and is currently being discussed in the IESG
- Two IETF dependencies are both in the RFC Editor's queue
- Testable implementations expected at SIPit 26 (May 2010)

Configuring a Non-Local Domain

The SIP Configuration Domain may be provided manually.

An alias mechanism is described for a future version of the Recommendation.



Status of alias work

- A specification has been submitted to the IETF DISPATCH Working Group:
[draft-lawrence-dispatch-sipforum-provider-alias](#)
- Separate SIP Forum committee being established to create a Provider registry