

Internet Engineering Task Force (IETF)
Request for Comments: 7913
Updates: 7315
Category: Informational
ISSN: 2070-1721

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June 2016

P-Access-Network-Info ABNF Update

Abstract

This document updates RFC 7315, by modifying the extension-access-info part of the P-Access-Network-Info header field Augmented Backus-Naur Form (ABNF), and by adding the following 'access-info' header field parameter values to the list of 'access-info' header field parameter values in the ABNF: 'operator-specific-GI' and 'utran-sai-3gpp'. The values are defined in the ABNF but are not included in the list.

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1. Introduction

[RFC7315] defines the Session Initiation Protocol (SIP) [RFC3261] P-Access-Network-Info header field.

The header field syntax contains an 'access-info' header field parameter, with a set of pre-defined values. Most pre-defined values follow the 'generic-param' rule [RFC3261]. However, currently the Augmented Backus-Naur Form (ABNF) [RFC5234] in [RFC7315] requires new values to follow the 'gen-value' rule [RFC3261], which is more restrictive than 'generic-param'. There is no justification for the restriction, and new values have already been defined following the 'generic-param' rule.

The ABNF also defines the following 'access-info' header field parameter values: 'operator-specific-GI' and 'utran-sai-3gpp'. However, the values are not included in the list of 'access-info' values.

This document updates Section 5.4 of [RFC7315], by modifying the extension-access-info part of the P-Access-Network-Info header field ABNF.

As the P-Access-Network-Info header field is mainly used in networks defined by the 3rd-Generation Partnership Project (3GPP), where new values following the 'generic-param' rule have been defined [TS.3GPP.24.229], the update is not considered to cause issues with backward compatibility.

2. Update to RFC 7315

This section updates the ABNF defined in Section 5.4 of RFC 7315, as described below:

Old syntax:

```
access-info          = cgi-3gpp / utran-cell-id-3gpp /  
                      dsl-location / i-wlan-node-id /  
                      ci-3gpp2 / eth-location /  
                      ci-3gpp2-femto / fiber-location /  
                      np / gsn-location / local-time-zone /  
                      dvb-rcs2-node-id / extension-access-info  
np                   = "network-provided"  
extension-access-info = gen-value
```

New syntax:

```
access-info          = cgi-3gpp / utran-cell-id-3gpp /  
                      dsl-location / i-wlan-node-id /  
                      ci-3gpp2 / eth-location /  
                      ci-3gpp2-femto / fiber-location /  
                      np / gsn-location / local-time-zone /  
                      dvb-rcs2-node-id / operator-specific-GI /  
                      utran-sai-3gpp / extension-access-info  
np                   = "network-provided"  
extension-access-info = generic-param
```

3. Security Considerations

The security considerations for the P-Access-Network-Info header field are defined in [RFC7315]. The ABNF update defined in this document does not impact the security considerations.

4. Normative References

- [RFC3261] Rosenberg, J., Schulzrinne, H., Camarillo, G., Johnston, A., Peterson, J., Sparks, R., Handley, M., and E. Schooler, "SIP: Session Initiation Protocol", RFC 3261, DOI 10.17487/RFC3261, June 2002, <<http://www.rfc-editor.org/info/rfc3261>>.
- [RFC5234] Crocker, D., Ed. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, DOI 10.17487/RFC5234, January 2008, <<http://www.rfc-editor.org/info/rfc5234>>.
- [RFC7315] Jesske, R., Drage, K., and C. Holmberg, "Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3GPP", RFC 7315, DOI 10.17487/RFC7315, July 2014, <<http://www.rfc-editor.org/info/rfc7315>>.
- [TS.3GPP.24.229] 3GPP, "IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3", 3GPP TS 24.229 13.5.1, March 2016, <<http://www.3gpp.org/ftp/Specs/html-info/24229.htm>>.

Acknowledgments

Thanks to Ben Campbell, Cullen Jennings, Gonzalo Salgueiro, Jean Mahoney, Menachem Dodge, Olafur Gudmundsson, Paul Kyzivat, and the 3GPP community for providing guidance, input, and comments on the document.

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