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## 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 / gstn-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 / gstn-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>>.

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