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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This document is not an Internet Standards Track specification; it is published for informational purposes.

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1. Introduction


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-rsc2-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-rsc2-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


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