

Source: T-Mobile
Title: Proposal to use Diameter on the PDG Wi and the GGSN Gi interface.
Agenda item: 9.18
Document for: discussion

1. Introduction.
CN3 at its last meeting agreed to create a new specification for the Wi interface, which is the WLAN equivalent to the Gi interface in GPRS (TS29.061). While the protocol for Gi is RADIUS, the protocol for Wi is still undefined. Other platforms that could have used either RADIUS or Diameter have been allowed to use Diameter in the specifications.
2. Discussion.
Diameter is used on a multitude of interfaces including Cx, Sh, Gq, Ro, Rf, in IMS, policy control and IP flow charging. Several reference points in Wireless LAN will be using Diameter. See TS 23.234 for Wireless LAN details. This leaves only the Gi and Wi interfaces not specified as using Diameter. If Wi is specified to use Diameter then this will leave only the Gi interface in which RADIUS must be used because Diameter has not been specified.
3. Conclusion.
Diameter should be specified for use on the Wi and Gi interfaces. Given that the Wi interface is new then it should be specified as Diameter only. Ideally for the Gi interface a Diameter solution should be added in release 6 but certainly added in release 7.