

Sessions in a communication system

The present invention relates to communication systems, and in particular, to policy control in association with sessions provided by means of a communication
5 system.

A communication system can be seen as a facility that enables communication sessions between two or more entities such as user equipment and/or other nodes associated with the communication system. The communication may comprise, for
10 example, communication of voice, data, multimedia and so on. A user equipment may, for example, be provided with a two-way telephone call or multi-way conference call. A user equipment may also be provided with a connection to an application server (AS), for example a service provider server, thus enabling use of services provided by the application server.

15 A communication system typically operates in accordance with a given standard or specification which sets out what the various entities associated with the communication system are permitted to do and how that should be achieved. For example, the standard or specification may define if the user, or more precisely,
20 user equipment is provided with a circuit switched service and/or a packet switched service. Communication protocols and/or parameters which shall be used for the connection may also be defined. In other words, a specific set of "rules" on which the communication can be based on needs to be defined to enable communication by means of the system.

25 Communication systems providing wireless communication for user equipment are known. An example of the wireless systems is the public land mobile network (PLMN). The PLMNs are typically based on cellular technology. In cellular systems, a base transceiver station (BTS) or similar access entity serves wireless user
30 equipment (UE) known also as mobile stations (MS) via a wireless interface between these entities. The communication on the wireless interface between the user equipment and the elements of the communication network can be based on

an appropriate communication protocol. The operation of the base station apparatus and other apparatus required for the communication can be controlled by one or several control entities. The various control entities may be interconnected.

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One or more gateway nodes may also be provided for connecting the mobile network to other networks, for example to a public switched telephone network (PSTN) and/or other communication networks such as an IP (Internet Protocol) and/or other packet switched data networks. For example, if a requested service is provided by a service provider located in other network, the service request is routed via the mobile network to the other network and then to the service provider.

An example of the services that may be offered for users such as the subscribers to a communication system is the so called multimedia services. An example of the communication systems enabled to offer multimedia services is the Internet Protocol (IP) Multimedia network. IP Multimedia (IM) functionalities can be provided by means of a IP Multimedia Core Network (CN) subsystem, or briefly IP Multimedia subsystem (IMS). The IMS includes various network entities for the provision of the multimedia services.

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The third generation partnership project (3GPP) has defined use of the general packet radio service (GPRS) as a backbone communication system for the provision of the IMS services. Therefore the GPRS will be used in this specification as an example of a possible backbone communication system enabling the multimedia services. The Third Generation Partnership Project (3GPP) has also defined a reference architecture for the third generation (3G) core network which will provide the users of user equipment with access to the multimedia services. This core network is divided into three principal domains. These are the Circuit Switched (CS) domain, the Packet Switched (PS) domain and the Internet Protocol Multimedia (IM) domain.

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The latter of these, the IM domain, is for ensuring that multimedia services are

adequately managed. The 3G IM domain supports the Session Initiation Protocol (SIP) as developed by the Internet Engineering Task Force (IETF). Session Initiation Protocol (SIP) is an application-layer control protocol for creating, modifying and terminating sessions with one or more participants (endpoints).

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The SIP can establish, modify, and terminate multimedia sessions, for example conferences. However, the details of the session, such as the type of media, codec, or sampling rate, cannot be described. Instead, the body of a SIP message contains a description of the session, encoded in Session Description Protocol (SDP) format. A mechanism called offer/answer model has been defined, this enabling two entities to make use of the SDP to arrive at a common view of a multimedia session between them. In the model, one participant offers the other party a description of the desired session from their perspective, and the other participant answers with the desired session from their perspective. The other participant may e.g. reduce the offer. 3GPP allows operators of IP Multimedia Subsystems to define allowed media parameters for sessions in their network; these are either generic local policies or media policies, or subscription based restrictions. In these networks only the allowed media can be established. SDPs violating the policies are rejected by the network.

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Although handling of SIP requests containing SDP has been described for the 3GPP, handling of SIP responses, such as responses with payload, is not yet dealt with. The SIP allows sending of SDP in SIP responses. However, it is not possible to reject such responses if the SDP breaches media policy, such as policy set by an operator but not known to the user.

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Embodiments of the present invention aim to address one or several of the above problems.

30 According to one embodiment of the present invention, there is provided a method in a communication system for handling responses to messages. The method comprises the steps of sending a message from a first party to a second party,

sending a response to the message, the response including at least one parameter in breach of a policy for the communication between the parties, detecting in a network controller that the response includes at least one parameter breaching the policy, and modifying the at least one parameter to be in line with the policy.

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According to another embodiment there is provided a controller for a communication system configured to handle responses and requests between parties of communication sessions, forward a message from a first party to a second party, check if a response to the message includes at least one parameter
10 in breach of a policy for the communication between the parties, and modify the at least one parameter to be in line with the policy.

According to yet another embodiment there is provided a communication system for providing communication sessions between parties connected thereto, the
15 communication system comprising a controller configured to handle responses and requests between parties of communication sessions, forward a message from a first party to a second party, check if a response to the message includes at least one parameter in breach of a policy for the communication between the parties, and modify the at least one parameter to be in line with the policy.

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In a more specific embodiment at least one parameter is modified by the controller. In another embodiment the at least one parameter is modified by the first party. The response may be passed unmodified from the second party to the first party. A check may be made by the controller if a further message from the first party
25 responding the response includes at least one parameter in breach of the policy.

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Embodiments may provide advantage in handling of sessions with non-allowable parameters. The handling may be consistent. The system may better foresee various possible situations caused by conflicting policies.

For better understanding of the present invention, reference will now be made by way of example to the accompanying drawings in which:

Figure 1 shows one embodiment of the invention;

Figures 2 is a signalling flowcharts illustrating operation of an aspect of the invention; and

Figure 3 is a signalling flowcharts illustrating operation of another aspect of the invention.

Certain embodiments of the present invention will be described in the following by way of example, with reference to the exemplifying architecture of a third generation (3G) mobile communications system. However, it shall be appreciated that the embodiments may be applied to any suitable communication system.

Reference is made to Figure 1 which shows an example of a network architecture wherein the invention may be embodied. In Figure 1 an IP Multimedia Network 45 is provided for offering IP multimedia services for IP Multimedia Network subscribers.

As described above, IP Multimedia (IM) functionalities can be provided by means of a mobile communication system. A mobile communication system is typically arranged to serve a plurality of mobile user equipment usually via a wireless interface between the user equipment and at least one base station of the communication system. The mobile communication system may logically be divided between a radio access network (RAN) and a core network (CN).

In the system base stations 31 and 40 are arranged to transmit signals to and receive signals from mobile user equipment 30, 41 of mobile users i.e. subscribers via a wireless interface between the user equipment and the radio access network. Correspondingly, a mobile user equipment is able to transmit signals to and receive signals from the radio access network via the wireless interface.

In the shown arrangement the user equipment 30, 41 may access the IMS network 45 via the access network associated with base station 31, 40, respectively. It shall be appreciated that, although, for clarity reasons Figure 1 shows two base stations

only, a typical communication network system usually includes a number of base stations.

A mobile user equipment may comprise any appropriate mobile user equipment adapted for Internet Protocol (IP) communication to connect the network. For example, the mobile user may access the cellular network by means of a Personal computer (PC), Personal Data Assistant (PDA), mobile station (MS) and so on. The following examples are described in the context of mobile stations.

One skilled in the art is familiar with the features and operation of a typical mobile station. Thus, it is sufficient to note that the user may use a mobile station for tasks such as for making and receiving phone calls, for receiving and sending data from and to the network and for experiencing multimedia content or otherwise using multimedia services. A mobile station may include an antenna for wirelessly receiving and transmitting signals from and to base stations of the mobile communication network. A mobile station may also be provided with a display for displaying images and other graphical information for the user of the mobile user equipment. Camera means may be provided for capturing still or video images. Speaker means are also typically provided. The operation of a mobile station may be controlled by means of an appropriate user interface such as control buttons, voice commands and so on. Furthermore, a mobile station is provided with a processor entity and a memory means.

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It shall be appreciated that although only two mobile stations are shown in Figure 1 for clarity, a number of mobile stations may be in simultaneous communication with base stations of a mobile communication system.

25 The core network (CN) entities typically include various switching and other control entities and gateways for enabling the communication via a number of radio access networks and also for interfacing a single communication system with one or more communication system such as with other cellular systems and/or fixed line communication systems. In the 3GPP systems the radio access network controller

is typically connected to an appropriate core network entity or entities such as, but not limited to, a serving general packet radio service support node (SGSN), see controllers 33 and 39 of Figure 1. The radio access network is in communication with the serving GPRS support node via an appropriate interface, for example on
5 an Iu interface. Although not shown, the SGSN typically has access to designated subscriber database configured for storing information associated with the subscription of the respective user equipment. The serving GPRS support node, in turn, typically communicates with a gateway GPRS support node via the GPRS backbone network 32. This interface is commonly a switched packet data interface.

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In a 3GPP network, a packet data session is established to carry traffic flows over the network. Such a packet data session is often referred as a packet data protocol (PDP) context. A PDP context may include a radio bearer provided between the user equipment and the radio network controller, a radio access bearer provided
15 between the user equipment, the radio network controller and the SGSN, and switched packet data channels provided between the serving GPRS service node and the gateway GPRS service node. Each PDP context usually provides a communication pathway between a particular user equipment and the gateway GPRS support node and, once established, can typically carry multiple flows. Each
20 flow normally represents, for example, a particular service and/or a media component of a particular service. The PDP context therefore often represents a logical communication pathway for one or more flow across the network. To implement the PDP context between user equipment and the serving GPRS support node, radio access bearers (RAB) need to be established which commonly
25 allow for data transfer for the user equipment. The implementation of these logical and physical channels is known to those skilled in the art and is therefore not discussed further herein.

The communication systems have developed in the direction wherein services are
30 provided for the user equipment by means of various functions of the data network that are handled by controller entities, such as servers. For example, in the current third generation (3G) wireless multimedia network architectures it is assumed that

several different servers providing various control functions are used for the service provision control. These include functions such as the call state control functions (CSCFs). The call state control functions may be divided into various categories such as a proxy call state control function (P-CSCF), interrogating call state control function (I-CSCF), and serving call state control function (S-CSCF). It shall be appreciated that similar functions may be referred to in different systems with different names. For example, in certain applications the CSCFs may be referenced to as the call session control functions.

10 A user who wishes to use services provided by the IMS system may need first to register with a serving controller, such as the serving call session control function (S-CSCF) 36. As shown in Figure 1, communication between the S-CSCF 36 and the user equipment may be routed via at least one proxy call session control function (P-CSCF) 35. The proxy CSCF 35 is thus for proxying messages from the GGSN 34 to a serving call session control function 36. The serving controller, i.e. CSCF 36 in Figure 1, in turn, provides the control entity the user equipment 30 needs to be registered with. The registration is required to enable the user equipment to request for a service from the communication system.

20 A policy control entity 37 may also be provided. The policy control entity 37 may be configured to store required policy information in a database 38 thereof. The network entities may query the policy control entity for various purposes, such as for obtaining information regarding the media policy of a particular user. The policy control entity may be provided by means of a policy decision function (PDF), which is connected to P-CSCF and GGSN.

Figure 1 shows also an application server 50. The user equipment may connect, via the GPRS network, to the application server that is connected to one or more data networks such as, but not limited to, the exemplifying Internet Protocol (IP) network. It shall be appreciated that a great number of application servers may be connected to each data network.

Although this is not always necessary, the system of Figure 1 may further be arranged such that a user who has been provided with required communication resources by the backbone network and is registered to the serving controller 36 has to initiate the use of services offered by the application server 50 by sending a request for the desired service to the serving controller over the communication system.

The embodiments are based on the realisation that it might be advantageous if an predefined action can be taken after detection of a breach of media policy. The action is preferably performed in a proxy network element, such as the P-CSCF 35.

The more detailed exemplifying embodiments described below deal with messages, such as SIP responses, containing a session parameter such as an offer that is not in accordance with the operator's media policy stored in the PDF 37, and therefore actions may need to be performed in order to bring the at least one breaching parameter in line with the policy.

As shown in Figure 2, an appropriate CSCF may modify the parameters before forwarding them. The 200 OK sent from the second user equipment 41 in response to an 'INVITE' from the first user equipment 30 contains an SDP offer that breaches media policy. The CSCF modifies the offer such that the SDP offer is in line with the media policy before it is sent further to the first user equipment 30 as an SDP offer. The answer in the ACK will be acceptable by media policy.

If the reduced media is not satisfactory for the parties (in worst case it may occur that in the intersection all media are annulled), they can initiate a new reINVITE. This is possible since the multimedia session is not released by the network.

In accordance with an alternative shown in Figure 3 an appropriate CSCF may ignore the problem and forward the unmodified SIP message containing the SDP offer. The provisional response from the second user equipment for an INVITE from the first user equipment may contain an SDP offer that breaches media policy.

In other word, the SDP offer may be forwarded as it were accepted. The CSCF then waits for modified and allowable session parameter answer from the other party. The SDP answer may be received in a PRACK request which is then checked against the media policy. If it is not acceptable, the PRACK request is
5 rejected. The CSCF may thus reject offer/answer if the final parameters still breach the media policy

The rejection may contain the allowed media policy. This may be provided in accordance with the Figure 2.

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A more detailed example for operation of the P-CSCF 35 in accordance with an embodiment will be described next. When the P-CSCF 35 receives an SIP request containing an SDP offer, the P-CSCF may examine the media parameters in the received SDP. If the P-CSCF 35 finds any media parameters which are not allowed
15 on the network, for example because of a local policy, the P-CSCF may return a 'Not Acceptable Here' response containing SDP payload. The SDP payload may contain either all the media types, codecs and other SDP parameters which are allowed according to the local policy, or, based on configuration by the operator of the P-CSCF, a subset of these allowed parameters. This subset may depend on
20 the content of the received SIP request.

When the P-CSCF receives a reliable provisional SIP response, such as the SIP 183 message of Figure 3, containing SDP offer, the P-CSCF may be configured not to examine the media parameters in the received SDP offer. Thus, even if the
25 offer contains media parameters which are not allowed on the network by a local policy the SDP may be allowed to pass transparently the P-CSCF 35. This may be advantageous since it may not be possible for the P-CSCF to reject a SIP response. Instead, the P-CSCF may take action based on the succeeding PRACK request containing the SDP answer for this offer and therefore this is checked. If
30 necessary, i.e. the SDP answer reduced by the user equipment (UE) still breaches local policy, the P-CSCF may return a 'Not Acceptable Here' response containing the local policy that is allowed SDP payload.

When the P-CSCF receives a 2xx final SIP response for an INVITE request in a confirmed dialog, i.e. for a reINVITE, that contains an SDP offer, the P-CSCF may examine the media parameters in the received SDP offer. If the P-CSCF finds
5 media parameters not allowed on the network, for example by local policy, the P-CSCF may intersect the SDP offer with the local policy, as is shown in Figure 2. This way it may be ensured that the SDP answer sent in the 'ACK' request is allowed by the local policy and it is a valid answer for the SDP offer originally received in P-CSCF as well.

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A more detailed example wherein the operations in accordance with an embodiment are performed in the S-CSCF 36 will be described next. When the S-CSCF 36 receives an SIP request containing SDP, the S-CSCF may examine the media parameters in the received SDP. If the S-CSCF finds any media parameters
15 which are not allowed based on either local policy or the subscription, the S-CSCF may return a 'Not Acceptable Here' response containing SDP payload. As above, the SDP payload may contain either all the media types, codecs and other SDP parameters which are allowed according to the local policy and users subscription or, based on configuration by the operator of the S-CSCF, a subset of these
20 allowed parameters. This subset may depend on the content of the received SIP request.

When the S-CSCF receives a reliable provisional SIP response containing an SDP offer, the S-CSCF may be configured not to examine the media parameters in the
25 received SDP offer. Thus even media parameters which are not allowed on the network by local or other policy may be allowed, as it may not be possible to reject a SIP response. The P-CSCF may then check the subsequent PRACK request containing the SDP answer for this offer, and if necessary, i.e. the SDP answer reduced by the UE, still breaches local policy, it proceeds as described above for
30 SIP requests.

When the S-CSCF receives a 2xx final SIP response for an INVITE request in a confirmed dialog that contains an SDP offer, the S-CSCF may examine the media parameters in the received SDP offer. If the S-CSCF finds any media parameters which are not allowed on the network by local policy, the S-CSCF shall intersect
 5 the SDP offer with the local policy. This way it may be guaranteed that the SDP answer sent in the ACK message is allowed by the local policy and it is a valid answer for the SDP offer originally received in S-CSCF as well. Note that it is not possible to reject an ACK in SIP protocol.

10 In accordance with a possibility the communication system is configured such that the SIP 200 OK for an initial INVITE cannot contain an SDP offer. In this case either the initial INVITE request may contain the offer or there may be a provisional reliable response with SDP offer.

15 The following deals briefly with inappropriate SDP models the network may need to be able to handle. In accordance with a scenario an SDP offer is not answered according to the SDP offer/answer model. In this case the SDP offer may be dropped. In another scenario there is no SDP payload in the SIP message, although the SDP offer/answer model mandates it. The intermediate server may
 20 then behave transparently. The SIP message may also contain an invalid SDP offer, for example syntactical, semantic error or SDP offer/answer model is broken. This may be considered as an annulled offer. The SIP message may also contains an invalid SDP answer. The corresponding offer is dropped, and P-CSCF sends no policy setup information to policy decision function.

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It should be appreciated that whilst embodiments of the present invention have been described in relation to user equipment such as mobile stations, embodiments of the present invention are applicable to any other type of equipment.

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The examples of the invention have been described in the context of an IMS system and GPRS networks. This invention is also applicable to any other access

techniques including code division multiple access, frequency division multiple access or time division multiple access as well as any hybrids thereof.

Furthermore, the given examples are described in the context of the so called all IP networks with all IP entities. This invention is also applicable to any other

5 appropriate communication systems, either wireless or fixed line systems and standards and protocols. Examples of other possible communication systems enabling wireless data communication services, without limiting to these, include third generation mobile communication system such as the Universal Mobile Telecommunication System (UMTS), i-phone or CDMA2000 and the Terrestrial
10 Trunked Radio (TETRA) system, the Enhanced Data rate for GSM Evolution (EDGE) mobile data network. Examples of fixed line systems include the diverse broadband techniques providing Internet access for users in different locations, such as at home and offices. Regardless the standards and protocols used for the communication network, the invention can be applied in all communication
15 networks wherein policy control is required in association with sessions.

The embodiment of the invention have been discussed in the context of a proxy and servicing call state control functions. Embodiments of the invention can be applicable to other network elements where applicable.

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It is also noted herein that while the above describes exemplifying embodiments of the invention, there are several variations and modifications which may be made to the disclosed solution without departing from the scope of the invention as defined in the appended claims.

CLAIMS:

1. A method, comprising:
 - passing a message from a first party to a second party in a communication system;
 - passing a response to the message from the second party to the first party, the response including at least one parameter in breach of a policy for a communication between the first party and the second party;
 - detecting in a network controller that the response includes at least one parameter breaching the policy; and
 - modifying, by the network controller, the at least one parameter to be consistent with the policy.
2. The method as claimed in claim 1, further comprising modifying the at least one parameter by the first party.
3. The method as claimed in one of claims 1 and 2, wherein the detecting comprises detecting in the network controller that provides a call session control function.

4. The method as claimed in claim 3, wherein the detecting comprises detecting in the network controller that provides the call session control function comprising at least one of a proxy call session control function or a serving call session control function.
5. The method as claimed in any one of the preceding claims, wherein the detecting comprises detecting that the response includes the at least one parameter comprising a parameter of a session description protocol.
6. The method as claimed in any one of the preceding claims, wherein the sending comprises sending the response in accordance with a session initiation protocol.
7. A controller, configured to:
 - operate in a communication system;
 - handle responses and requests between parties of communication sessions;
 - forward a message from a first party to a second party;
 - check whether a response to the message from the second party to the first party includes at least one parameter in breach of a policy for the communication between the parties; and
 - modify the at least one parameter to be consistent with the policy.

8. A method, comprising:

passing a message from a first party to a second party in a communication system;

receiving a response to the message from the second party, the response including at least one parameter in breach of a policy for a communication between the first party and the second party;

passing the response unmodified from the second party to the first party; and

determining in a network controller that one or more of said at least one parameter breaches the policy.

9. The method according to claim 8, further comprising:

sending a further message from the first party to the network controller, said determining comprising detecting at least one parameter in breach of the policy in the further message.

10. The method according to claim 9, further comprising:

responsive to said detecting, sending to the first party by the network controller another message containing the policy allowed payload.

11. A controller, configured to:

forward a message from a first party to a second party in a communication system;

pass a response to the message unmodified from the second party to the first party, the response including at least one parameter in breach of a policy for a communication between the first party and the second party; and

determine in a network controller that one or more of said at least one parameter breaches the policy.

12. The controller according to claim 11, configured to detect at least one parameter in breach of the policy in a further message from the first party.

13. The controller according to claim 12, configured to send to the first party another message containing the policy allowed payload in response to detection of said at least one parameter in breach of the policy.

14. A method comprising:

passing a message from a first party to a second party in a communication system;

receiving a response from the second party to the first party, the response including at least one parameter in breach of a policy for communication between the parties;

determining in a network controller that one or more of said at least one parameter is in breach of the policy; and

sending a further message including a definition of the policy to the first party.

15. The method according to claim 14, wherein the sending of the further message comprises sending information of at least one parameter in consistency with the policy.

16. A controller for providing communication configured to:

handle responses and requests between parties of communication sessions;

forward a message from a first party to a second party in the communication system;

receive a response from the second party to the first party, the message including at least one parameter in breach of a policy for communication between the parties;

determine that one or more of said at least one parameter is in breach of the policy; and

send a further message including a definition of the policy to the first party.

17. The controller according to claim 16, wherein the controller is configured to include in the further message information of at least one parameter in consistency with the policy.

18. A method, comprising:

passing a message from a first party to a second party in a communication system;

receiving a response including at least one parameter in breach of a policy for a communication between a first party and a second party;

passing the response unmodified from the second party to the first party;

receiving from the first party a further message including one or more of the at least one parameter in breach of the policy; and

detecting in a network controller that the further message includes the one or more of the at least one parameter breaching the policy.

19. The method according to claim 18, further comprising sending a further response including a definition of the policy to the first party.

20. A controller for providing communication, configured to:

forward a message from a first party to a second party in a communication system;

forward a response including at least one parameter in breach of a policy for communication between the first party and the second party unmodified from the second party to the first party;

receive a further message from the first party including at least one parameter in breach of the policy; and

detect that the further message includes at least one parameter in breach of the policy.

21. The controller according to claim 20, configured to send a further response including a definition of the policy to the first party.

22. An apparatus, comprising:

a transmitter configured to send a message at a first party to a second party;

a receiver configured to receive at the first party from the second party a response to the message, the response including at least one parameter in breach of a policy; and

a processor configured to modify, at the first party, at least one parameter into consistency with the policy,

wherein the transmitter is further configured to send a further message to a network controller, the further message including the modification.

23. The apparatus of claim 22, wherein the processor is further configured to further modify at least one parameter in response to a response to the further message.

24. The apparatus according to one of claims 21 and 22, wherein the user equipment is configured to modify the at least one parameter to be consistent with a local policy.

25. An apparatus, comprising:

first sending means for sending, at a first party, a message to a second user equipment;

receiving means for receiving, at a first party, a response to the message from the second party, the response including at least one parameter in breach of a policy;

controller means for modifying, at the first party, at least one parameter into consistency with the policy; and

second sending means for sending a further message to a network controller, the further message including at least one modified parameter;

wherein the controller means is further configured to further modify the at least one parameter in response to a response to the further message.

26. A method, comprising:

sending a message at a first user equipment to a second user equipment;

receiving a response to the message at the first user equipment from the second user equipment, the response including at least one parameter in breach of a policy;

modifying at least one parameter into consistency with the policy; and

sending a further message to a network controller, the further message including the modification.

27. The method of claim 26, wherein the modifying is responsive to a response to the further message.

28. The method of one of claims 26 and 27, wherein the modifying comprises modifying the at least one parameter to be consistent with a local policy.

29. A method, comprising:

forwarding a Session Initiation Protocol message from a first user equipment to a second user equipment;

forwarding a Session Initiation Protocol response containing a Session Description Protocol offer from a second party to a first party;

receiving a succeeding request and checking whether the request contains a Session Description Protocol answer for the offer that breaches a local policy; and

if the Session Description Protocol answer breaches the local policy, returning a response that the answer is not acceptable, the response containing a local policy allowed Session Description Protocol payload.

30. The method of claim 29, wherein the first party is a user equipment and the Session Description Protocol answer is reduced at the user equipment.

31. A network controller configured to:

forward a Session Initiation Protocol request from a first user equipment to a second user equipment;

forward a Session Initiation Protocol response containing a Session Description Protocol offer from said second party to said first party;

receive a succeeding request and checking whether the request contains a Session Description Protocol answer for the offer that breaches a local policy; and

if the Session Description Protocol answer breaches the local policy, return a response that the answer is not acceptable, the response containing a local policy allowed Session Description Protocol payload.

32. A network controller according to claim 31, wherein the network controller is a Proxy Call Session Control Function.

33. A network controller according to claim 31, wherein the network controller is a Serving Call Session Control Function.