3GPP TSG SA WG3 Security — S3#20 **S3-010490**

16 - 19 October, 2001

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Source:	Nokia
Title:	Proposed changes to 33.210 about GGSN – P-CSCF interface (Go)
Document for:	Discussion/Decision
Agenda Item:	**7.2**

This contribution proposes that the interface between GGSN and P-CSCF (the Go interface) is protected by the network domain security as already assumed in TS 33.203 v0.6.0. The changes are edited with change marks against 33.210 v. 0.6.0.

4.4.1 Security domains and interfaces

The UMTS network domain shall be logically and physically divided into security domains. These control plane security domains may closely correspond to the core network of a single operator and shall be separated by means of security gateways.

The specific network domain security interfaces are found in table 1. The definitions for Zd, Ze and Zf only apply to NDS/MAP (TS33.200, [9]).

Table 1: Network domain security specific interfaces

Interface	Description	Network type
Za	Network domain security interface between SEGs. The interface is used for both the negotiation of security associations aiming at setting up ESP tunnels between SEGs and the protection of traffic within the negotiated ESP tunnels between SEGs (no third party negotiation).	IP
Zb	Network domain security interface between SEGs and NEs within the same network. The interface is used for both the negotiation of security associations aiming at setting up ESP tunnels between a NE and a SEG and the protection of traffic within the negotiated ESP tunnels.	IP
Zc	Network domain security interface between NEs within the same network. The interface is used for both the negotiation of security associations aiming at setting up ESP tunnels between NEs and the protection of traffic within the negotiated ESP tunnels.	IP

The interfaces, which affects/is affected by the network domain security specification, are described in the table below. Notice that when security protection is employed over an interface, this specification will refer to the Z-interface name.

Table 2: Interfaces that are affected by NDS/IP

Interface	Description	Affected protocol
Gn	Interface between GSNs within the same network	GTP
Gp	Interface between GSNs in different PLMNs.	GTP
Go	Interface between GGSN and P-CSCF	COPS
Mw	Interface between CSCFs within the same network	SIP
Mm	Interface between CSCF and Multimedia IP network	SIP