3GPP TSG_CN **Tdoc NP-000438**
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Source: **TSG_N WG 1**

Title: **CRs to R99 Work Item GSM/UMTS Interworking**
"Octet Stream Protocol for Internet Hosted Octet Stream Service"

Agenda item: **8.16.1**

Document for: **APPROVAL**

Introduction:

This document contains 2 CRs on R99 Work Item GSM/UMTS Interworking, that has been agreed by TSG_N WG1, and is forwarded to TSG_N Plenary meeting #9 for approval.

Spec	CR	R	Doc-2nd-Level	Phase	Subject	Cat	Ver_C	Ver_N
04.08	A1039		N1-000928	R98	Deletion of references to OSP:IHOSS for R98	F	7.8.0	7.9.0
24.008	247		N1-000929	R99	Deletion of references to OSP:IHOSS for R99	A	3.4.1	3.5.0

3GPP CN1 Meeting #13
Vancouver, Canada, 14-18 august 2000

Document N1-000928
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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04.08	CR	A1039	Current Version:	7.8.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [ ] Core Network [X]

Source: TSGN1 **Date:** 1/08/00

Subject: Deletion of references to OSP:IHOSS for R98

Work item: GSM/UMTS interworking

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	X
D	Editorial modification			Release 99	
				Release 00	

Reason for change:
In TdocS1-000345 (SA1#8 - april 2000) S1 notes that CN3 have deleted the support of Interworking to ISDN / PSTN. S1 has also discussed the support of the IHOSS service and there is no support in S1 for this feature. Therefore S1 sees no need for the PDP type OSP, that was introduced to support these services, and S1 has agreed with N3's recommendation that this feature be deleted. S1 will raise CRs to remove this feature from R98, R99 and R00.
This CR deletes the references to OSP:IHOSS in 04.08 R98

Clauses affected: 10.5.6.3 10.5.6.4

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

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<--------- double-click here for help and instructions on how to create a CR.

10.5.6.3 Protocol configuration options

The purpose of the *protocol configuration options* information element is to transfer external network protocol options associated with a PDP context activation.
The *protocol configuration options* is a type 4 information element with a minimum length of 2 octets and a maximum length of 253 octets.
The *protocol configuration options* information element is coded as shown in figure 10.5.136/GSM 04.08 and table 10.5.154/GSM 04.08.

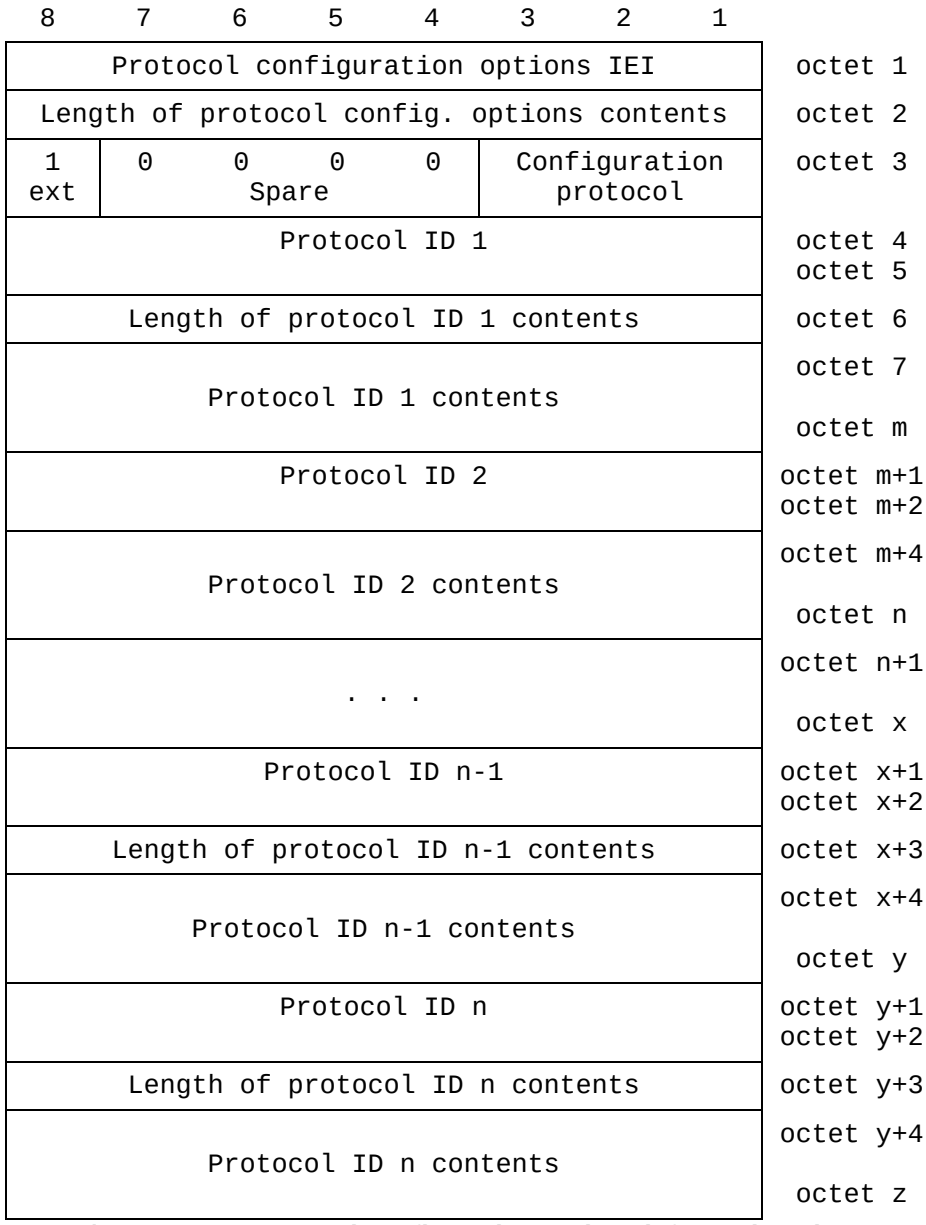

Figure 10.5.136/GSM 04.08: *Protocol configuration options* information element

Table 10.5.154/GSM 04.08: *Protocol configuration options* information element

Configuration protocol (octet 3)
Bits
3 2 1
0 0 0 PPP for use with IP PDP type
~~0 0 1 for use with OSP:IHOSS PDP type~~
~~NOTE. The OSP:IHOSS PDP type does not have a separately named configuration protocol analogous to PPP.~~

All other values are interpreted as PPP in this version of the protocol.
Configuration protocol options list (octets 4 to z)
The *configuration protocol options list* contains a variable number of logical units, the may occur in an arbitrary order within the *configuration protocol options list*. Each unit is of variable length and consists of a

- protocol identifier (2 octets);
- the length of the protocol identifier contents of the unit (1 octet); and
- the protocol identifier contents itself (n octets).

The *protocol identifier* field contains the hexadecimal coding of the configuration protocol identifier. Bit 8 of the first octet of the *protocol identifier* field contains the most significant bit and bit 1 of the second octet of the *protocol identifier* field contains the least significant bit.

If the *configuration protocol options list* contains a protocol identifier that is not supported by the receiving entity the corresponding unit shall be discarded.
The *length of the protocol identifier contents* field contains the binary coded representation of the length of the *protocol identifier contents* field of a unit. The first bit in transmission order is the most significant bit.
The *protocol identifier contents* field of each unit contains information specific to the configuration protocol specified by the *protocol identifier*.
PPP
At least the following protocol identifiers (as defined in RFC 1700) shall be supported in this version of the protocol:
- C021H (LCP;
- C023H (PAP);
- C223H (CHAP);and
- 8021H (IPCP).

The support of other protocol identifiers is implementation dependent and outside the scope of this specification.
The *protocol identifier contents* field of each unit corresponds to a ‘Packet’ as defined in RFC 1661 that is stripped off the ‘Protocol’ and the ‘Padding’ octets.
The detailed coding of the *protocol identifier contents* field is specified in the RFC that is associated with the protocol identifier of that unit.
~~**OSP:IHOSS** (Octet Stream Protocol for Internet Hosted Octet Stream Service)~~
~~In the logical units described above, OSP:IHOSS uses the term *option identifier* rather than *protocol identifier*.~~
~~The currently defined *option identifiers*, their *lengths*, and the coding of the *option identifier contents* fields are specified in GSM 07.60.~~

10.5.6.4 Packet data protocol address

The purpose of the *packet data protocol address* information element is to identify an address associated with a PDP.
The *packet data protocol address* is a type 4 information element with minimum length of 4 octets and a maximum length of 20 octets.
The *packet data protocol address* information element is coded as shown in figure 10.5.137/GSM 04.08 and table 10.5.155/GSM 04.08.

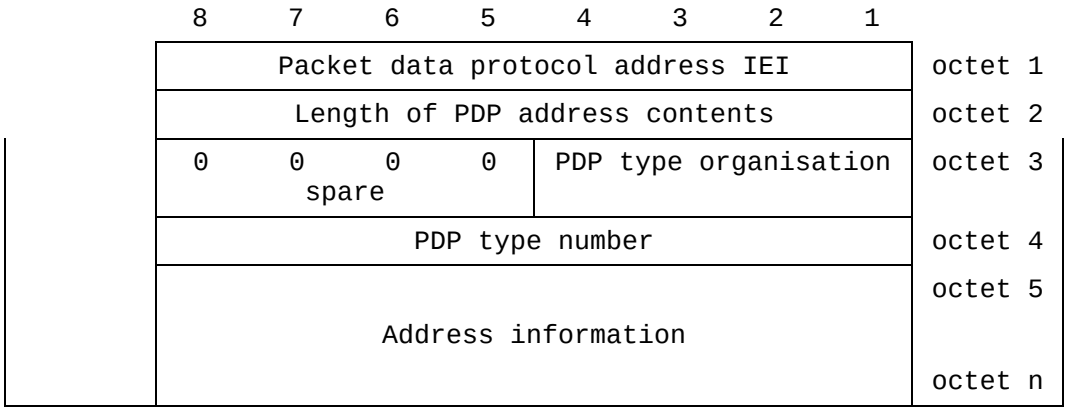

Figure 10.5.137/GSM 04.08: *Packet data protocol address* information element

Table 10.5.155/GSM 04.08: *Packet data protocol address* information element

```
     Length of PDP address contents (octet 2)

     If the value of octet 2 equals 0000 0010, then :

     - No PDP address is included in this information
       element; and

     - If the PDP type is IP, dynamic addressing is
       applicable.

NOTE : For PPP and OSP:IHOSS, no address is required in this
information element.

     PDP type organisation (octet 3)
     Bits
     4 3 2 1
     In MS to network direction :
     0 0 0 0      ETSI allocated address (e.g. X.121)
     0 0 0 1      IETF allocated address
     1 1 1 1      Empty PDP type


     All other values are reserved.

     In network to MS direction :
     0 0 0 0      ETSI allocated address (e.g. X.121)
     0 0 0 1      IETF allocated address

     All other values are reserved.

     If bits 4,3,2,1 of octet 3 are coded 0 0 0 0
     PDP type number value (octet 4)
     Bits
     8 7 6 5 4 3 2 1
     0 0 0 0 0 0 0 0  X.121 address
     0 0 0 0 0 0 0 1  PDP-type PPP
     0 0 0 0 0 0 1 0  PDP-type OSP:IHOSS

     All other values shall be interpreted as X.121 address
     in this version of the protocol.

     If bits 4,3,2,1 of octet 3 are coded 0 0 0 1
     PDP type number value (octet 4)
     Bits
     8 7 6 5 4 3 2 1
     0 0 1 0 0 0 0 1  IPv4 address
     0 1 0 1 0 1 1 1  IPv6 address

     All other values shall be interpreted as IPv4 address
     in this version of the protocol.

     In MS to network direction:
     If bits 4,3,2,1 of octet 3 are coded 1 1 1 1
     PDP type number value (octet 4)
     bits 8 to 1 are spare and shall be coded all 0.

     Octet 3, bits 7, 6, and 5 are spare and shall be coded
     all 0.
```

If PDP type number indicates X.121, the Address information is coded as follows:

8	7	6	5	4	3	2	1	
digit 2				digit 1				octet 5
digit 4				digit 3				octet 6
digit m+1				digit m				octet n*

Digit 1 contains the first BCD coded digit of the X.121 address. If the X.121 address has an odd number of digits, digit m+1 shall be padded with HEX(F).
If PDP type number indicates IPv4, the Address information in octet 5 to octet 8 contains the IPv4 address. Bit 8 of octet 5 represents the most significant bit of the IP address and bit 1 of octet 8 the least significant bit .
If PDP type number indicates IPv6, the Address information in octet 5 to octet 20 contains the IPv6 address. Bit 8 of octet 5 represents the most significant bit of the IP address and bit 1 of octet 20 the least significant bit.

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24.008	CR	247	Current Version:	3.4.1

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
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Source: TSGN1 **Date:** 1/08/00

Subject: Deletion of references to OSP:IHOSS for R99

Work item: GSM/UMTS interworking

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Clauses affected: 10.5.6.3 10.5.6.4

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Other 3G core specifications		→ List of CRs:
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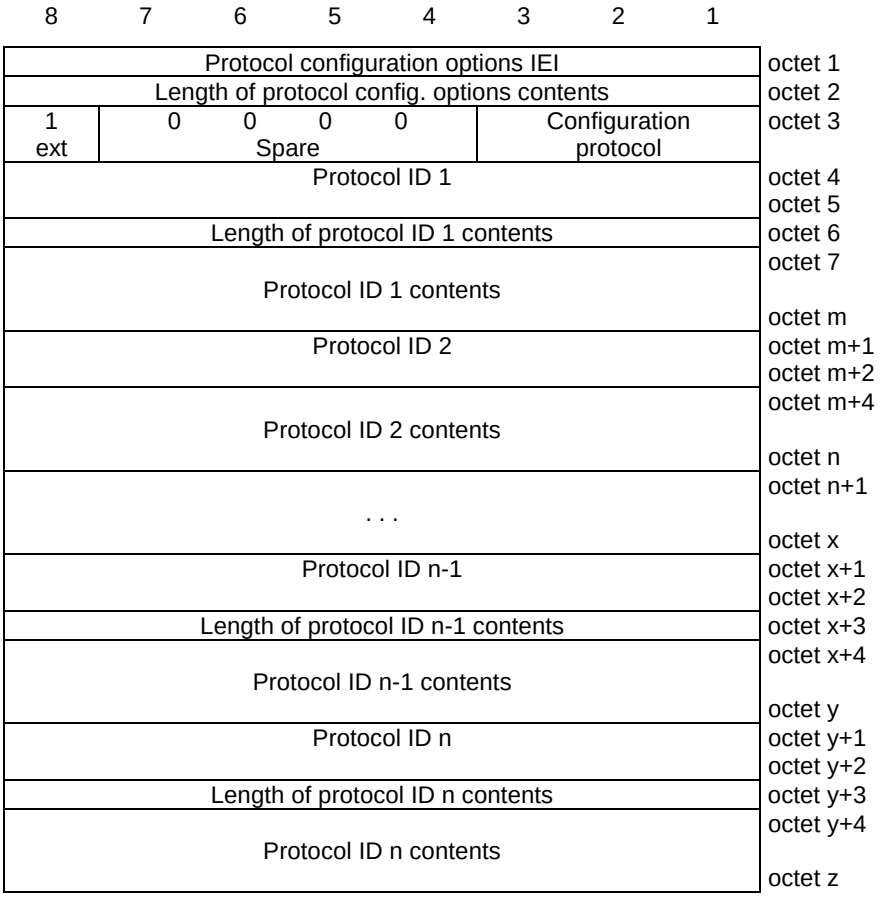

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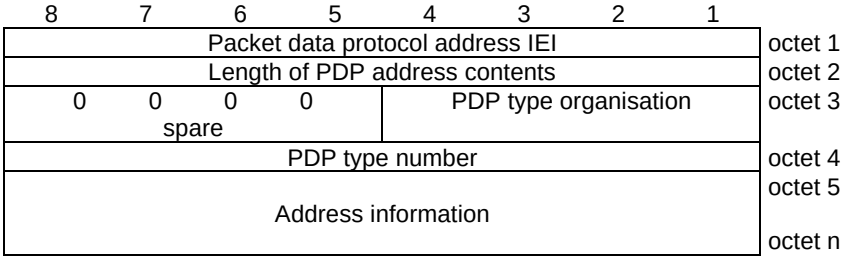

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All other values are reserved.

In network to MS direction :
0 0 0 0 ETSI allocated address
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All other values are reserved.

If bits 4,3,2,1 of octet 3 are coded 0 0 0 0
PDP type number value (octet 4)
Bits
8 7 6 5 4 3 2 1
0 0 0 0 0 0 0 0 Reserved, used in earlier version of this protocol
0 0 0 0 0 0 0 1 PDP-type PPP
~~0 0 0 0 0 0 1 0 PDP-type OSP:IHOSS~~

All other values are reserved
in this version of the protocol.

If bits 4,3,2,1 of octet 3 are coded 0 0 0 1
PDP type number value (octet 4)
Bits
8 7 6 5 4 3 2 1
0 0 1 0 0 0 0 1 IPv4 address
0 1 0 1 0 1 1 1 IPv6 address

All other values shall be interpreted as IPv4 address
in this version of the protocol.

In MS to network direction:
If bits 4,3,2,1 of octet 3 are coded 1 1 1 1
PDP type number value (octet 4)
bits 8 to 1 are spare and shall be coded all 0.

Octet 3, bits 8, 7, 6, and 5 are spare and shall be coded all 0.

If PDP type number indicates IPv4, the Address information in octet 5 to octet 8 contains the IPv4 address. Bit 8 of octet 5 represents the most significant bit of the IP address and bit 1 of octet 8 the least significant bit .

If PDP type number indicates IPv6, the Address information in octet 5 to octet 20 contains the IPv6 address. Bit 8 of octet 5 represents the most significant bit of the IP address and bit 1 of octet 20 the least significant bit.