# WAP Specification Information Note
# WAP-200_001-WDP
Version 12-Dec-2000

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**A Wireless Application Protocol**
**Specification Information Note for:**

**Wireless Datagram Protocol Specification**
**WAP-200-WDP**
**Version 19-Feb-2000**

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# 1. Scope

Specification Information Note (SIN) fixes technical and clerical errors in the originally published approved specification.

This document incorporates the following approved editorial change requests:

- CR-WDP-Nokia-15-Feb-2000
- N_WDP_CR_01also known as N_CR_03142000_WDPIPv6
- WORLDZAP-WDP-30-MAY-2000-1
- CR-Nokia-WDP-09-Jun-2000/1

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# 2. Document Status

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## 2.1 Copyright Notice

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## 2.2 Errata

Known problems associated with this document are published at http://www.wapforum.org/.

## 2.3 Comments

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# 3. Fixing Inconsistencies in Document References

## 3.1 Change Classification

| | |
|---|---|
| **1 – New Feature, Major Change or Market Effecting Change** | **[ ]** |
| **2 – Bug Fixes** | **[ ]** |
| **3 – Clerical Corrections** | **[ X ]** |

## 3.2 Change Summary

Several references have been incorrectly classified as normative or informative. This change corrects this problem.

## 3.3 Change

*New text is* underlined. *Removed text has* ~~strikethrough~~ *marks. The presented text is copied from the specification. Text that is not presented is not affected at all.*

## 3.1 Normative references

~~[IS07498] ISO 7498 OSI Reference Model~~

[TET 392-1] ETSI Radio Equipment and System (RES); Terrestial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General Network Design (ETS 300 392-1)

[TET 392-2] ETSI Radio Equipment and System (RES); Terrestial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI) (ETS 300 392-2)

[TET SDSTL] ETSI Radio Equipment and System (RES); Terrestial Trunked Radio (TETRA); Voice plus Data (V+D); SDS Transport Layer

~~[WTPGOAL] WAP WTP Working Group "Wireless Transport Protocol Goals Document" version 0.01; document number 112597 URL: http://www.wapforum.org/~~

~~[WTPREQ] WAP WTP Working Group "Wireless Transport Protocol Requirements Document" version 0.02; document number 112597 URL: http://www.wapforum.org/~~

[WSP] ~~WAP Wireless Session Group,~~ Wireless Session Protocol Specification 30-April-1998 URL: http://www.wapforum.org/

[WTLS] ~~WAP Wireless Session Group,~~ Wireless Transport Layer Security Specification 30-April-1998 URL: http://www.wapforum.org/

[WTP] ~~WAP Wireless Transport Group,~~ Wireless Transaction Protocol Specification 30-April-1998 URL: http://www.wapforum.org/

## 3.2 Informative references

[IS07498] ISO 7498 OSI Reference Model

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~~[TET 392-1] ETSI Radio Equipment and System (RES); Terrestial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General Network Design (ETS 300 392-1)~~

~~[TET 392-2] ETSI Radio Equipment and System (RES); Terrestial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI) (ETS 300 392-2)~~

~~[TET SDSTL] ETSI Radio Equipment and System (RES); Terrestial Trunked Radio (TETRA); Voice plus Data (V+D); SDS Transport Layer~~

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# 4. Addition of Missing RFC Reference

## 4.1 Change Classification

| | |
|---|---|
| **1 – New Feature, Major Change or Market Effecting Change** | **[ ]** |
| **2 – Bug Fixes** | **[ ]** |
| **3 – Clerical Corrections** | **[ X ]** |

## 4.2 Change Summary

Add a missing reference to IPv6 specification.

## 4.3 Change

*New text is* underlined. *Removed text has* ~~strikethrough~~ *marks. The presented text is copied from the specification. Text that is not presented is not affected at all.*

## 3.1 Normative References

*Add the following reference:*

[RFC2460] S. Deering(Cisco),R. Hinden(Nokia) "Internet Protocol, Version 6 (IPv6)", RFC2460, December 1998.

## 7.2 Mapping of WDP for IP

*Add the underlined text to the last sentence of the first paragraph in the section:*

UDP is fully specified in RFC 768 while the IP networking layer is defined in RFC 791 and RFC 2460.

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# 5. Clarification of SCR Regarding GSM Bearers

## 5.1 Change Classification

| | |
|---|---|
| **1 – New Feature, Major Change or Market Effecting Change** | **[ ]** |
| **2 – Bug Fixes** | **[ ]** |
| **3 – Clerical Corrections** | **[ X ]** |

## 5.2 Change Summary

Several SCR items in the GSM section were defined to apply to all implementations of GSM cellular technology although they actually are specific to particular GSM bearers. This change corrects this problem. A similar change was also applied to the ANSI-136 bearer section.

## 5.3 Change

*New text is* underlined. *Removed text has* ~~strikethrough~~ *marks. The presented text is copied from the specification. Text that is not presented is not affected at all.*

### E.2.5.1 GSM CELLULAR TECHNOLOGY

CLIENT BEARER SUPPORT

| Item | Description | Reference | Mandatory / Optional |
|---|---|---|---|
| WDP-GSM-C001 | SMS bearer service | [GSM 03.40] | O |
| ~~WDP-GSM-C002~~ | ~~SMS Phase 1 text headers~~ | ~~[WDP]~~ | ~~O~~ |
| ~~WDP-GSM-C003~~ | ~~SMS long fragmentation information element sending~~ | ~~[GSM 03.40]~~ | ~~O~~ |
| ~~WDP-GSM-C004~~ | ~~SMS short fragmentation information element sending~~ | ~~[GSM 03.40]~~ | ~~O~~ |
| WDP-GSM-C005 | USSD bearer service | [GSM 03.90] | O |
| ~~WDP-GSM-C006~~ | ~~USSD bearer service information elements~~ | ~~[WAPGSMUD]~~ | ~~O~~ |
| WDP-GSM-C007 | GPRS bearer service | GSM 03.60 | O |
| WDP-GSM-C008 | Circuit Switched bearer service | [ETSI GSM] | O |
| WDP-GSM-C009 | Cell Broadcast bearer service | [GSM 03.41] | O |
| ~~WDP-GSM-C010~~ | ~~SMS long fragmentation information element receiving~~ | ~~[GSM 03.40]~~ | ~~M~~ |
| ~~WDP-GSM-C011~~ | ~~SMS short fragmentation information element receiving~~ | ~~[GSM 03.40]~~ | ~~M~~ |

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SERVER BEARER SUPPORT

| Item | Description | Reference | Mandatory/ Optional |
|---|---|---|---|
| WDP-GSM-S001 | SMS bearer service | [WDP] | O |
| ~~WDP-GSM-S002~~ | ~~SMS Phase 1 text headers~~ | ~~[WDP]~~ | ~~O~~ |
| ~~WDP-GSM-S003~~ | ~~SMS long fragmentation information element sending~~ | ~~[WDP]~~ | ~~M: WDP-GSM-S001~~ |
| ~~WDP-GSM-S004~~ | ~~SMS short fragmentation information element sending~~ | ~~[GSM 03.40]~~ | ~~O~~ |
| WDP-GSM-S005 | USSD bearer service | [GSM 03.90] | O |
| ~~WDP-GSM-S006~~ | ~~USSD bearer service information elements~~ | ~~[WAPGSMUD]~~ | ~~O~~ |
| WDP-GSM-S007 | GPRS bearer service | GSM 03.60 | O |
| WDP-GSM-S008 | Circuit Switched bearer service | [ETSI GSM] | O |
| WDP-GSM-S009 | Cell Broadcast bearer service | [GSM 03.41] | O |
| ~~WDP-GSM-S010~~ | ~~SMS long fragmentation information element receiving~~ | ~~[GSM 03.40]~~ | ~~M~~ |
| ~~WDP-GSM-S011~~ | ~~SMS short fragmentation information element receiving~~ | ~~[GSM 03.40]~~ | ~~M~~ |

*Add a new subsection. Text removed from the entries is marked with ~~strikethrough~~ and added text is underlined. The presented text is copied from the original section E.2.5.1*

## E.2.5.1.1 GSM bearer specific features

CLIENT BEARER SUPPORT

| Item | Description | Reference | Mandatory / Optional |
|---|---|---|---|
| WDP-GSM-C002 | SMS Phase 1 text headers | [WDP] | O |
| WDP-GSM-C003 | ~~SMS~~Long fragmentation information element sending | [GSM 03.40] [WAPGSMUD] | O |
| WDP-GSM-C004 | ~~SMS~~Short fragmentation information element sending | [GSM 03.40] [WAPGSMUD] | O |
| WDP-GSM-C006 | USSD bearer service information elements | [WAPGSMUD] | M: WDP-GSM-C005 |

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| Item | Description | Reference | Mandatory / Optional |
|---|---|---|---|
| WDP-GSM-C010 | ~~SMS~~Long fragmentation information element receiving | [GSM 03.40] [WAPGSMUD] | M: WDP-GSM-C001 M: WDP-GSM-C005 |
| WDP-GSM-C011 | ~~SMS~~Short fragmentation information element receiving | [GSM 03.40] [WAPGSMUD] | M: WDP-GSM-C001 M: WDP-GSM-C005 |

SERVER BEARER SUPPORT

| Item | Description | Reference | Mandatory/ Optional |
|---|---|---|---|
| WDP-GSM-S002 | SMS Phase 1 text headers | [WDP] | O |
| WDP-GSM-S003 | ~~SMS~~Long fragmentation information element sending | [GSM 03.40~~WDP~~] [WAPGSMUD] | M: WDP-GSM-S001 M: WDP-GSM-S005 |
| WDP-GSM-S004 | ~~SMS~~Short fragmentation information element sending | [GSM 03.40] [WAPGSMUD] | O |
| WDP-GSM-S006 | USSD bearer service information elements | [WAPGSMUD] | M: WDP-GSM-S005 |
| WDP-GSM-S010 | ~~SMS~~Long fragmentation information element receiving | [GSM 03.40] [WAPGSMUD] | M: WDP-GSM-S001 M: WDP-GSM-S005 |
| WDP-GSM-S011 | ~~SMS~~Short fragmentation information element receiving | [GSM 03.40] [WAPGSMUD] | M: WDP-GSM-S001 M: WDP-GSM-S005 |

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*Add a new subsection:*

### E.2.6.2 ANSI-136 bearer specific features

CLIENT BEARER SUPPORT

| Item | Description | Reference | Mandatory / Optional |
|---|---|---|---|
| WDP-ANSI136-BEAR-C001 | Long fragmentation information element sending | [TIA/EIA-136-711] | O |
| WDP-ANSI136-BEAR-C002 | Short fragmentation information element sending | [TIA/EIA-136-711] | O |
| WDP-ANSI136-BEAR-C003 | Long fragmentation information element receiving | [TIA/EIA-136-711] | M: WDP-ANSI136-C004 |
| WDP-ANSI136-BEAR-C004 | Short fragmentation information element receiving | [TIA/EIA-136-711] | M: WDP-ANSI136-C004 |

SERVER BEARER SUPPORT

| Item | Description | Reference | Mandatory / Optional |
|---|---|---|---|
| WDP-ANSI136-BEAR-S001 | Long fragmentation information element sending | [TIA/EIA-136-711] | O |
| WDP-ANSI136-BEAR-S002 | Short fragmentation information element sending | [TIA/EIA-136-711] | M: WDP-ANSI136-S004 |
| WDP-ANSI136-BEAR-S003 | Long fragmentation information element receiving | [TIA/EIA-136-711] | M: WDP-ANSI136-S004 |
| WDP-ANSI136-BEAR-S004 | Short fragmentation information element receiving | [TIA/EIA-136-711] | M: WDP-ANSI136-S004 |

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# 6. Clarify that Payload Protection is Expected

## 6.1 Change Classification

| | |
|---|---|
| **1 – New Feature, Major Change or Market Effecting Change** | **[ ]** |
| **2 – Bug Fixes** | **[ ]** |
| **3 – Clerical Corrections** | **[ X ]** |

## 6.2 Change Summary

WDP has always been expected not to pass corrupted messages to the rest of the protocol stack. This change documents properly this assumption.

## 6.3 Change

*New text is* underlined*. Removed text has* ~~strikethrough~~ *marks. The presented text is copied from the specification. Text that is not presented is not affected at all.*

## 5.2.2 Processing Errors of WDP Datagrams

*Add a new paragraph to the end of the subsection:*

WDP is expected not to pass up corrupted messages. If a particular bearer does not provide this service, then the WDP bearer adaptation MUST provide payload protection.

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