WAP General Formats Document

WAP-188-WAPGenFormats
Version 17-Feb-2000

Wireless Application Protocol
General Formats Document

Disclaimer:

The document is subject to change without notice.

Contents

1. Scope

Wireless Application Protocol (WAP) is a result of continuous work to define an industry wide specification for developing applications that operate over wireless communication networks. The scope for the WAP Forum is to define a set of specifications to be used by service applications. The wireless market is growing very quickly and reaching new customers and providing new services. To enable operators and manufacturers to meet the challenges in advanced services, differentiation, and fast/flexible service creation, WAP defines a set of protocols in transport, session and application layers. For additional information on the WAP architecture, refer to *"Wireless Application Protocol Architecture Specification"* [WAP].

This document defines a number of common formats that are used throughout the WAP specifications. Defining these formats in one document means that their use will be consistent throughout the specification, and simplifies the updating of formats.

2. Documents Status

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2.2 Errata

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

2.3 Comments

Comments regarding this document can be submitted WAP in the manner published at http://www.wapforum.org/.

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3. References

3.1 Normative references

[ABNF]　　　　　D. Crocker and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", RFC 2234, November 1997

3.2 Informative references

[ITUE164]　　　　"The International Public Telecommunication Numbering Plan", ITU-T Recommendation E.164, May 1997

4. Definitions and Abbreviations

All non-trivial abbreviations and definitions used in this document are listed in the following sections. The definition section includes description of general concepts that may be fully defined in other documents. The purpose of this section is to advise the reader on the terminology used in the document.

4.1 Definitions

The following are terms and conventions used throughout this specification.

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described by [RFC2119].

4.2 Abbreviations

For the purposes of this specification, the following abbreviations apply.

ABNF	Augmented Backus-Naur Form
DTMF	Dual Tone Multi-Frequency
WAP	Wireless Application Protocol

5. Introduction

This document provides definitions of various formats that are used repeatedly throughout the WAP specifications. Specifying all these formats in one place makes the specifications clearer, more consistent and simplifies updating these formats.

To date, the only formats specified within this document are telephone numbers, DTMF sequences, and address strings (all specified in section 6.1).

In the future other formats may be added.

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6. Formats definition

This chapter contains the actual definitions of the various general formats.

6.1 Telephone numbers, DTMF sequences and address strings

This section defines a general format for telephone numbers, DTMF-sequences and address strings. The format is given using ABNF [ABNF].

```
phone-number = international-phone-number | national-phone-number
international-phone-number = global-international-phone-number |
                            local-international-phone-number
global-international-phone-number = global-international-extension
                                    national-phone-number
local-international-phone-number = local-international-extension
                                   national-phone-number
global-international-extension = "+" country-code
local-international-extension = 1*DIGIT country-code
country-code = <one element of the country code list>
national-phone-number = 1*phone-digit
phone-digit = DIGIT


dtmf-sequence = 1*dtmf-digit
dtmf-digit = phone-digit | "*" | "#" | "A" | "B" | "C" | "D"


address-string = *(phone-number | dtmf-sequence | pause)  | GPRS-APN |
            SS-String
pause = one-second-pause
one-second-pause = <comma>
GPRS-APN = *CHARACTER
SS-String = Service-Code Supplementary-Information
Service-Code = start SC
Supplementary-Information = # | ( SI-List "#" )
start = "*" | "#" | "**" | "##" | "*#"
SC = DIGIT DIGIT [ DIGIT ]
SI-List = SI [ (SI [ (SI) ] ) ]
SI = "*" | ( "*" SI-Element )
SI-Element = Directory-Number | Basic-Service-Group |
             No-Reply-Condition-Timer | UUS-Required-Option | Password
```