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# **Vodafone Terminal Capability Definition**

## **Appendix G Utilities TCD – Vodafone Extension Header**

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**Owner: Rob Mitchell**  
**Authors: Osamu Otaka**

## Vodafone Extension Header

Header structure	Size	Value	Comment
Mode indicator	4bit	0100 : 8 bit byte 0011 : Concatenation 0000 : End pattern (message end)	An identifier to indicate in what mode the next data row is encoded Fixed to 8 bit byte "0100" if using Vodafone expanded header
Character count indicator	Variab		Indicates the number of characters in the data. Character count including the following Vodafone expanded header
Vodafone expanded header identifier	2Byte	0x0000	Indicates the existenc of Vodafone expanded header Exists if there is 0x0000 at the beginning of data part of standard QR code
Maker identifier	2Byte	0x0000-xFFFF	Defines QR code creation tool maker identifier. Handsets shall ignore this value.
QR code expansion version identifier	1Byte	0x02	Defines QR code Vodafone expansion version. Those other than 0x02 shall be handled as "unsupported" and not be identified. Those other than 0x02 are Reserved for future expansion.
Encoding identifier	1bit	b7 0 :Not encoded 1 : Encoded	Defines whether or not it is encoded. Fixed to "0" since encoding is not supported. "Encoded" is prepared for future expansion
Encoding algorithm version identifier	7bit	b6 b5 b4 b3 b2 b1 b0 X X X X X X X 0 0 0 0 0 0 0 : If not encoded	Defines algorithm version necessary for decoding Fixed to "0000000" since encoding is not supported
Copyright identifier	1Byte	b7 b6 b5 b4 b3 b2 b1 b0 b5,b4,b1,b0 ignore 0 X X X X X X X : Can store the whole data 1 X X X X X X X : Can't store the whole data X 0 X X X X X X : Can forward the whole data X 1 X X X X X X : Can't forward the whole data X X X X 0 X X X : Can store media data X X X X 1 X X X : Can't store media data X X X X 0 X X X : Can forward media data X X X X 1 X X X : Can't forward media data	Defines whether or not the whole data or included media data can be stored/forwarded. Those that can be forwarded but can't be stored are handled as "Can't be stored or forwarded"
Data type identifier	1Byte	b7 b6 b5 b4 b3 b2 b1 b0 0 0 0 0 0 0 0 0 : URL non-display (S-JIS) 0 0 0 0 0 0 1 0 : Text (S-JIS) 0 0 0 0 1 0 0 0 : Binary 0 0 0 0 1 0 0 1 : SMD 0 0 0 0 1 0 1 0 :SMAF 0 0 0 0 1 0 1 1 :PNG 0 0 0 0 1 1 0 0 :JPEG 0 0 0 0 1 1 0 1 :EVA(Optional) Others : Reserve	Defines data type For URL non-display, the non-display tag shall be effective. EVA shall be supported if Player is implemented in Native. If Reserve is designated, it shall not be identified and not display the result.
Date length	2Byte		Data type-specific data length [byte]
Data body			