

A decorative graphic featuring a thin gold circle. A large black left square bracket is positioned on the left side of the circle, and a large gold right square bracket is on the right side. A horizontal bar with a gold-to-white gradient is placed across the middle of the circle, containing the title text.

Message String Extension

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[Background]

- Mobile users should be informed about status of Registration Request
- “Reply code” does not give enough details to generate a meaningful message
- Exact interpretation could depend on deployment
- For. e.g. message could be like, pre-paid quota is exhausted, international roaming is disabled, etc

[Overview]

- Defines a new skippable extension for use in Registration Reply (RRP)
- Both Home Agent and Foreign Agent can add the extension to RRP
- The extension carries a text string, which can be displayed on mobile node user interface
- The message carried is deployment specific

[Format of the Extension]

0										1										2										3									
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1								
+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
	Type										Length										SubType										Text . . .								
+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		

Sub-Type:

- 1: if the extension is added by Home Agent
- 2: if the extension is added by Foreign Agent

Text: Implement dependent message to be displayed on the user interface

[Home Agent consideration]

- If added by HA, must appear before MHAЕ
- In case of authentication failure, text could be a failure reason message
- In case of successful authentication, text could be a welcome message

[Foreign Agent consideration]

- Foreign Agent can add Message String Extension to Registration Reply
- The extension can be added
 - to the registration reply sourced by Foreign Agent
 - to the registration reply relayed by Foreign Agent

[Mobile Node consideration]

- Interpretation is implementation specific
- Typical usage is to display the text field of Message String Extension on Mobile Node's user interface
- MN may throttle the messages displayed



Thank You