LTE Quick Reference

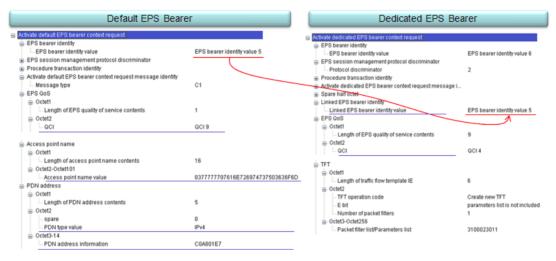
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Default vs Dedicated EPS Bearer

In many cases, we get confused by the role of Default EPS Bearer and Dedicated EPS Bearer. I think the best way to clear the confusion would be to understand the detailed information elements (parameters) defining these two bearer

First take a look at the decoded message for Default EPS Bearer and Dedicated EPS Bearer.



Let me give a couple of questions to help you understand the behaviour of these two bearers.

What are the information that Default EPS has but Dedicated EPS bearer does not ? The answer is "APN Name" and "PDN type/PDN Address".

Then What kind of PDN address does Dedicated EPS Bearer will use? The answer is "Dedicated EPS Bearer uses the PDN address of Default EPS Bearer it is linked to".

Then how a Dedicated EPS Bearer knows which Default EPS Bearer it is linked to? The answer is that it is via a information element called "Linked EPS Bearer Identity" (See the arrow shown in the picture above)

What are the information that both Default EPS Bearer and Dedicated EPS Bearer has ? The answer is "OCI".

Can Default EPS Bearer and Dedicated EPS Bearer can have the same QCI value? The answer is "No, they must have different QCI value".

What is the relation between Default EPS Bearer and an APN?

The answer is "there is one-to-one relationship between them. One Default EPS Bearer is alllocated for one APN.

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