

**Agenda Item:** UE Capabilities  
**Source:** Nokia  
**Title:** Draft LS on the inclusion of LCS in UE Capabilities  
**To:** TSG RAN WG2

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In a joint meeting between RAN1 and RAN4 a table containing a list of UE capabilities in support of location services was presented. This table was based on a previous contribution presented in RAN2 with some changes made to take into account comments from RAN2 and some RAN4 issues.

These RAN4 issues were concerning two measurements, UE Rx-Tx & SFN-SFN observed time difference – type 2, which were both previously proposed to be mandatory. However there has been a discussion in RAN4 to tighten the accuracy requirements on these, they have not concluded on this issue yet. In light of this it was considered to be unsafe at this point to make them mandatory in the UE and so would need to be signalled as part of the UE capabilities.

This effect on the UE capability list is that the option to say 'UE Rx-Tx time difference' and/or 'OTDOA' are not supported is allowed, as shown in the following table:

	<b>UE radio access capability parameter</b>	<b>Value range</b>
LCS related parameters	Standalone location method(s) supported	Yes/No
	Network assisted GPS support	Network based / UE based / Both / No
	GPS reference time capable	Yes/No
	Support for IPDL	Yes/No
	OTDOA support	UE assisted / UE based / Both / No
	UE Rx-Tx time difference supported	Yes/No

It was agreed to recommend to RAN2 that this table be added to the UE capabilities.