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Title	Definitions related to Radio Signature	
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Definitions related to Radio Signature

(AI from session #47 relative to comment 1131)

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1 Introduction

The contribution IEEE 802.16-06/126r2 rises the questions to be responded:

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Comment:

In "(CXCC:) coexistence signaling (CSI/ radio signature) 15.3.1", it is supposed that coexistence signaling includes both CSI and radio signature where CSI is an interval and not a signaling in itself. Is it correct from the definition point of view? Does the cognitive radio signaling rather encompass coexistence signaling (CSI based) + radio signature ?

Suggested Remedy:

Clarify the definition between the different terms and their relationship.

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The definition provided here down separate the analog radio signature from the message including system information, as BSID or the IP Address of the Proxi Server. The radio signature will not be able to carry messages using frequency keying, energy keying or a common profile, because any of these do not necessarily represent the “max. analog PSD”.

2 Definitions

Insert in 3. Definitions

3.137 Radio Signature: The radio signature of a transmitter is the RF signal used in regular radio communication. When is produced for the maximum interference evaluation, the RS shall be sent using the maximum Power Spectral Density for each of the operational directions. The radio signatures may be transmitted one by one, to enable interferer identification, or it may be aggregated for measuring the cumulative interference.