LTE measurement events

Date: 12.03.2010

Revision: 001/LME/010

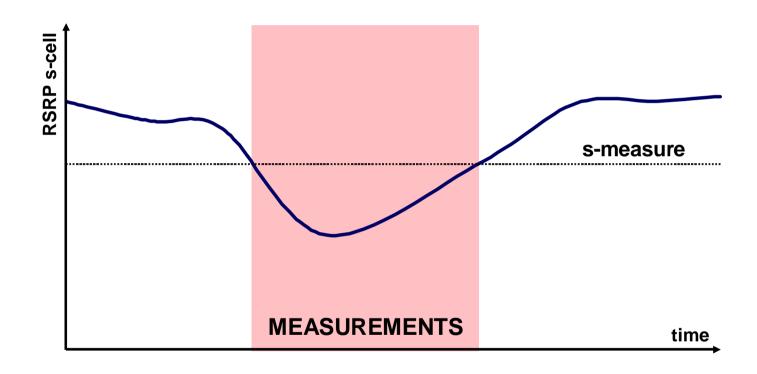
Author: Jakub Bluszcz



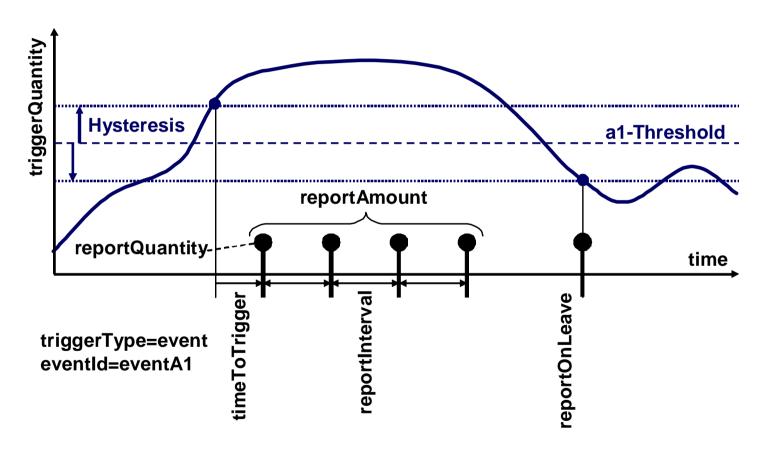
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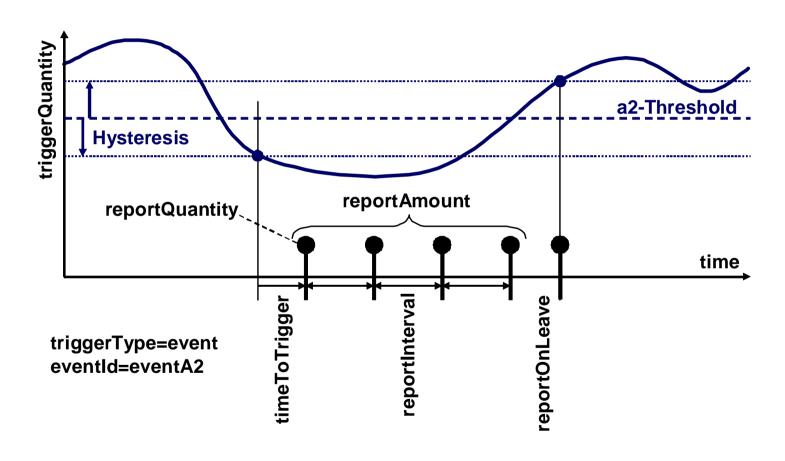
Parameter s-measure



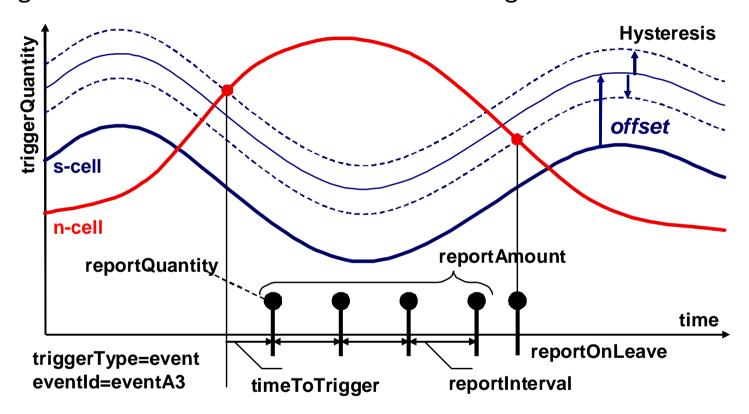
Serving becomes better than threshold



Serving becomes worse than threshold

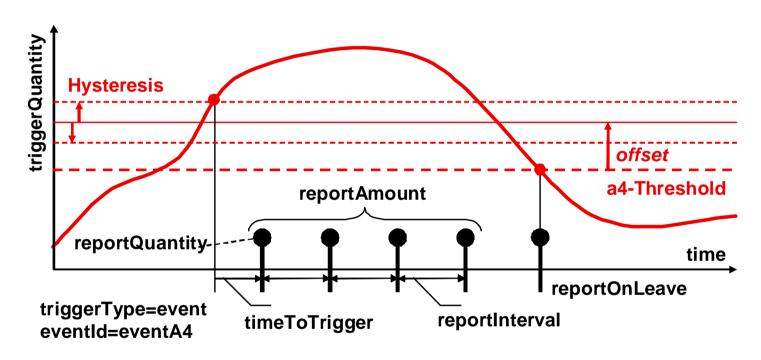


Neighbour becomes offset better than serving



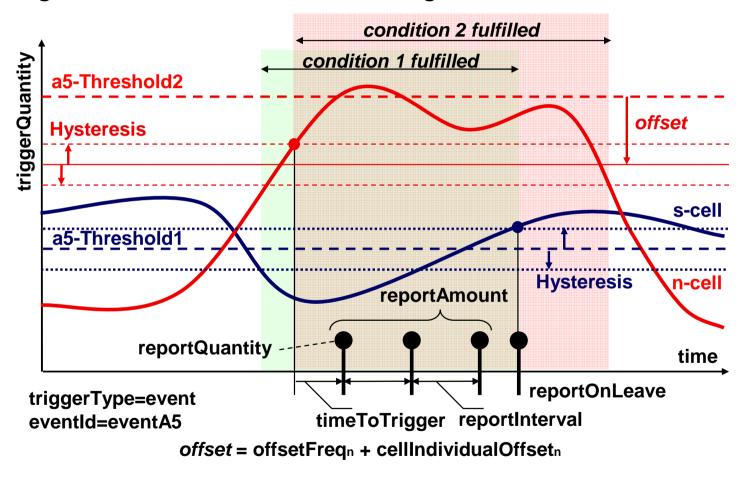
Offset = a3-offset + offsetFreqs + cellIndividualOffsets - offsetFreqn - cellIndividualOffsetn

Neighbour becomes offset better than threshold



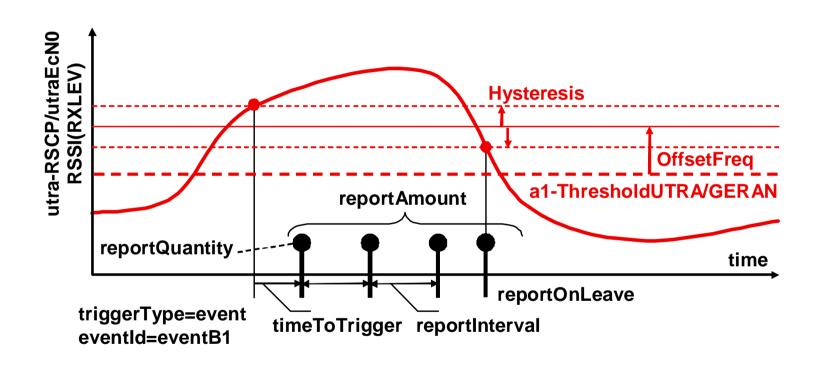
Offset = offsetFreqn + cellIndividualOffsetn

Serving becomes worse than thr.1 and neighbour becomes better than thr.2



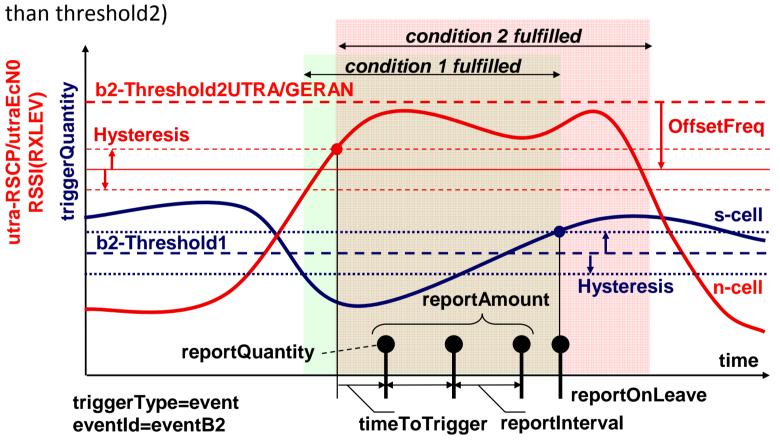
Event B1

Inter RAT neighbour becomes better than threshold

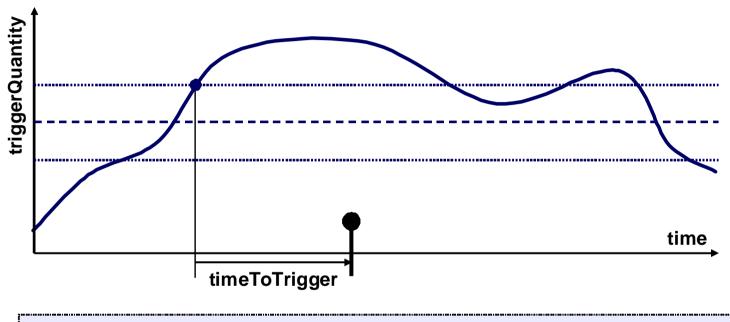


Event B2

Serving becomes worse than threshold1 and inter RAT neighbour becomes better



Speed dependant scaling of measurement parameters



timeToTriger:=timeToTrigger*sf-Medium (medium-mobility detected)
timeToTriger:=timeToTrigger*sf-High (high-mobility detected)

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Acronyms and Abbreviations

AKA Authentication and Key Agreement

CCO Cell Change Order

CDMA Code Division Multiple Access
DCCH Dedicated Control Channel

DL Downlink

EGPRS Enhanced General Packet Radio Service
GERAN GSM/EDGE Radio Access Network

HO Handover

MME Mobility Management Entity
NAS Non-access Stratum Signalling

PCCH Paging Control Channel
PLMN Public Land Mobile Network
PSI Public Service Identity
RAT Radio Access Technology

RLC Radio Link Control

RNTI Radio Network Temporary Identifier

RRC Radio Resource Control
RSCP Received Signal Code Power
RSRP Reference Signal Received Power

RXLEV Received Signal Level

TMSI Temporary Mobile Subscriber Identity Number

UE User Equipment

UL Uplink

UTRAN UMTS Terrestrial Radio Access Network

References

This section contains the locations of various specifications, document references and useful information where you can learn more about this subject.

[1] 3GPP TS 36.331 Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification

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