

# H2000 Handover Failure due to clock syn mode difference

#### 1. Issue Description

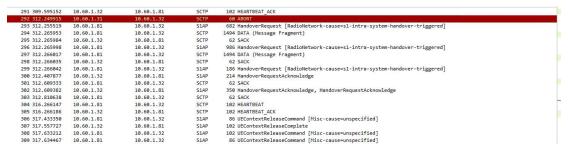
There is no handover signal between two H2000 eNodeBs.

It only shows handover preparation failture when disable the adminstate manually.

Source node: .31

. 60	.1.32	10.60.1.81	S1AP	1354		10.60.1.32		HandoverRequired [RadioNetwork-cause=s1-intra-system-handover-trigger
. 60	.1.81	10.60.1.31	SCTP	1494		10.60.1.81		DATA (Message Fragment)
.60	.1.81	10.60.1.31	S1AP	1450	10.60.1.83	10.60.1.81	7	HandoverRequest [RadioNetwork-cause=s1-intra-system-handover-triggered
.60	.1.31	10.60.1.81	S1AP	198	10.60.1.31	10.60.1.31		HandoverRequestAcknowledge
.60	.1.81	10.60.1.32	S1AP	182		10.60.1.81		HandoverCommand, RRCConnectionReconfiguration
.60	.1.31	10.60.1.81	S1AP	90		10.60.1.31		${\tt UEContextReleaseRequest\ [RadioNetwork-cause=failure-in-radio-interface]}$
.60	.1.31	10.60.1.81	S1AP/NAS-EPS	186		10.60.1.31		InitialUEMessage, Tracking area update request
.60	.1.31	10.60.1.81	S1AP	86		10.60.1.31		UEContextReleaseComplete
.60	.1.32	10.60.1.81	S1AP	90		10.60.1.32		UEContextReleaseRequest [RadioNetwork-cause=tS1relocoveral1-expiry]
.60	.1.81	10.60.1.31	S1AP	86		10.60.1.81		UEContextReleaseCommand [Misc-cause=unspecified]
.60	.1.81	10.60.1.32	S1AP	106		10.60.1.81		HandoverPreparationFailure [Misc-cause=unspecified]

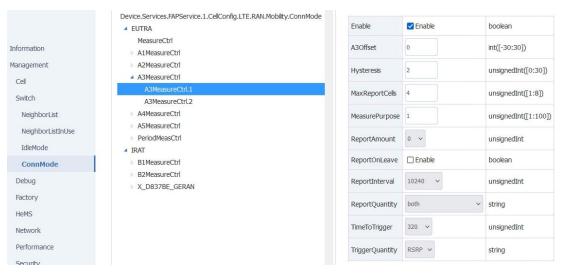
Target node:.32



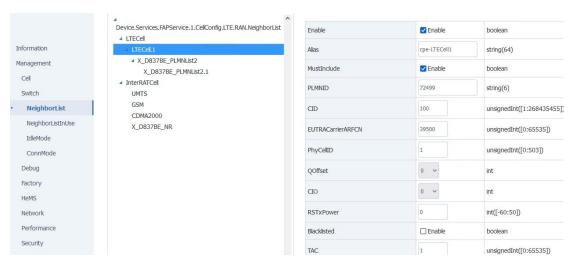
#### 2. Troubleshooting procedure

#### 2.1 Configuration check

Measurement and neighbour configuration is confirmed fine.

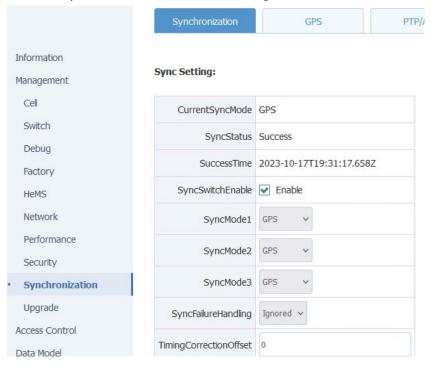






## 2.2 clock synchronization check

The current symmode Source node is GPS and the neighbour eNodeB is freerun. There is 2 hours time gap.



### 3. Solution

Modify the "Syncmode" from freerun to GPS and enable the switch "SyncSwitchEnable".

Make sure the GPS clook status is success after modify the clook mode and reboot.

### Handover Test Success:

459 435.663462	10.60.1.32	10.60.1.31	X2AP	694 HandoverRequest, MasterInformationBlock (SFN=18), SystemInformationBlockType1 SIB2
460 435.703847	10.60.1.31	10.60.1.32	X2AP	218 HandoverRequestAcknowledge, RRCConnectionReconfiguration
461 435.713607	10.60.1.32	10.60.1.31	SCTP	1514 SACK DATA (Message Fragment)
462 435.713655	10.60.1.32	10.60.1.31	X2AP	194 HandoverRequest, MasterInformationBlock (SFN=18), SystemInformationBlockType1 SIB2
463 435.713680	10.60.1.31	10.60.1.32	SCTP	62 SACK
464 435.723377	10.60.1.32	10.60.1.31	X2AP	102 SNStatusTransfer
465 435.763798	10.60.1.31	10.60.1.32	X2AP	218 HandoverRequestAcknowledge, RRCConnectionReconfiguration
466 435.783403	10.60.1.32	10.60.1.31	X2AP	118 SNStatusTransfer
467 435.823802	10.60.1.31	10.60.1.81	S1AP	146 PathSwitchRequest
468 435.839444	10.60.1.81	10.60.1.31	S1AP	170 PathSwitchRequestAcknowledge
469 435.853805	10.60.1.31	10.60.1.32	X2AP	98 UEContextRelease
470 435.853844	10.60.1.31	10.60.1.81	S1AP	162 PathSwitchRequest
471 435.854842	10.60.1.81	10.60.1.31	SCTP	62 SACK
472 435.875467	10.60.1.81	10.60.1.31	S1AP	154 PathSwitchRequestAcknowledge