Unit attached

AT+COPS=?

Network lost

3rd attempt

Reset

Attached?

Increase A to 60 minutes

Wait A minutes

Network seen

No network seen

Y

N

Y

N

No response after 5 minutes

Enters 32KHz mode

Loses network

Reset

AT+COPS=?

3rd attempt?

Attached?

Increase X to 60 minutes

Wait X minutes

Wait B minutes

Wait Y minutes

Y

N

N/W seen

No N/W seen

Y

N

Wait A minutes

Y

N

Notes

A - Initially 5 minutes

B - Initially 30 minutes

X – Initially 10 minutes

Y – Initially 30 minutes

A, B, X, Y – Reset back to initial states when returning to the ‘Unit attached’ or ‘Enters 32KHz mode’ state

No resets closer than 1 hour apart

Config the unit to auto attach GPRS

Check +CREG and +CGREG states, some roaming networks might only have GSM roaming agreements and no GSM and GPRS ones

AT+COPS=? has a 5 minute timeout

After AT+COPS=? also check registration status