



## Clarification Note #1

GSA internal reference: 212792

### RFI IN PREPARATION FOR THE PROCUREMENT OF AN EGNOS GEOSTATIONARY NAVIGATION PAYLOAD SERVICE - "GEO-3"

**Question #1: Can the uplink service be in C or Ku band at the decision of the hosted payload operator?**

Answer: Yes, the hosted payload operator can propose an uplink service in C or Ku band

**Question #2: Is the uplink spectrum to be provided by the hosted payload operator or the GSA?**

Answer: The NLES (the EGNOS system) will provide to the RF stations two signals for uplink. The centre frequencies of these signals will be the ones indicated by the payload operator (in C or Ku band).

The payload will relay these two signals at the L1 and E5 frequencies.

**Question #3: Can you confirm a return path is needed for the GEO ranging function?**

Answer: Yes, a return path is needed. An L-band reception chain shall feed the L1 and E5 signals back to the NLES.

**Question #4: For the case of the second navigation payload on the same satellite, can you clarify whether just E5 or E5 plus L1 signals are to be duplicated?**

Answer: The E5 plus L1 signals are to be duplicated.

**Question #5: In the Earth stations will the GSA supply baseband equipment plus high power amplifiers or just the baseband equipment?**

Answer: The NLES will contain baseband equipment, generating the two signals as explained in answer to question #2 above. The high power amplifiers will have to be part of the RF Uplink station.

**Question #6: Does the hosted payload operator need to take out civil aviation insurance or will coverage be included in the policy of the EGNOS Operator?**

Answer: The hosted payload operator will have to comply with the applicable law. Currently it is not envisaged to include the coverage in the policy of the EGNOS Operator.

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