# Annex E Informative: Latency Requirements for Scans

The latency requirement for performing a sensing task and transmitting metadata from SSD to SDM is a critical metric for certain use cases.

The maximum allowed latency depends on signal type and frequencies that need to be scanned, and are determined by the application. As such, a number of reference applications are given, with recommended latencies. In each case, to meet the specified latency, the SCOS system design and particular implementation would need to be capable.

Maximum Latency would be the sum of:

* Task Request Latency: Time from scan request to scan start
* Scan Time Latency: Time from scan start to scan complete
* Spectrum Characterisation Latency: Time from scan complete to algorithmic processing
* Sensing Data Delivery Latency: Time from processing to delivery to Data Receive Point

|  |  |  |
| --- | --- | --- |
| **Reference Application** | **Band Swept** | **Maximum Latency** |
| TVWS Base Station Device | 460-760MHz |  |
| CBRS Base Station Device | 3.5GHz-3.8GHz |  |
| TVWS CPE Device | 460-760MHz |  |
| CBRS CPE Device | 3.5GHz-3.8GHz |  |
| Etc | 460-760MHz |  |
|  |  |  |