

Response to inquiry on SAS coordination:

The base transmitter system is configured as a 5G NR small cell. This system runs a full SW stack including layer-1 PHY, layer-2 MAC, and SW applications. The SW applications for control and management of radio configurations will include a CBSD agent that will connect to a cloud based SAS such as Google SAS (<https://www.google.com/get/spectrumdatabase/sas/>).

CBSD agent includes the following features:

It can handle registration, de-registration, heartbeat, grant request and relinquishment messages between CBSDs and SAS. It can optimize spectrum utilization and interference management by adjusting transmit power and frequency channel according to SAS instructions. It can enable seamless mobility and handover for end user devices across different CBSDs.

The CBSD SW agent and management SW on the base transmitter will determine configurations and immediately respond to the SAS restrictions on channel and power levels.