The EUMETSAT Polar System – Second Generation (EPS-SG) is the follow-up system of the EPS programme. It aims to ensure continuity of the European contribution to operational weather satellite services in the mid-morning polar orbit in the timeframe of 2020 to 2040. The European Space Agency ESA develops and procures the EPS-SG Space Segment, which consists of the Metop-SG Satellites A and B series, and EUMETSAT has the overall system responsibility. In the frame of the EPS-SG development, the mission requirements for the individual observations were defined in close cooperation with a Post-EPS Mission Experts Team (PMET) and compiled in the EPS-SG End User Requirements Document.

For the observation missions related to atmospheric sounding, the main requirements with respect to radiometric, spectral, and geometric performances are summarized. This gives a preliminary assessment of the performance of the EPS-SG Level 1 and Level 2 products that users can expect to receive for use in operational meteorology and climate monitoring.