

Arkadiusz Chomicz - National Space Situational Awareness Operation Centre setup and requirements

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One of the aims of Polish Space Strategy is to set up and enhance capabilities of National Space Situational Awareness (SSA) Centre. The centre is planned to encompass three basic elements of SSA that is Space Surveillance and Tracking (SST), Near-Earth Objects (NEO) and Space Weather (SWE). Each of the elements has its own specificities and here I am concentrating on the SST which is a priority.

The SST functionality is to gather measurements through radar, optical and laser observations of Earth surroundings through survey and tracking in order to process this information into actionable services aiming in general to mitigate unwanted and harmful actions in the space.

In the scope of the presentation the general functional structure of the Centre will be discussed and proposed. In particular the basic SST services such as conjunction assessment, re-entry analysis, fragmentation analysis and mission characterisation will be elaborated and the technical requirements presented.

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