



Enhancing the Nation's Space Situational Awareness

Space Based Space Surveillance

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Meeting a Critical Need

SBSS delivers the only space-based sensor in the US Air Force Space Surveillance Network (SSN), providing around-the-clock visibility to provide timely detection, collection, identification, and tracking of space objects from deep space to low Earth orbit without interference from weather, atmosphere, or time of day. Operating in conjunction with the SSN, SBSS supports spaceflight safety, ensures space catalogue completeness, warns of on-orbit separations and maneuvers, and provides indications and warnings in space.

SBSS Block 10 satellite was launched in 2010 and is performing successfully.



With Unprecedented Capability

- The addition of SBSS to the USAF SSN will provide significant improvements over previous space-based SSN sensors:
 - Sensitivity improved 2-fold
 - Capacity improved 10-fold
 - Probability of detecting threats improved 3-fold
 - Time to detect threats improved at least 2-fold
 - Timely and relevant information to the warfighter



And Flexibility for the Future

- The highly agile, gimballed design provides capacity to cover increasing actions in space.
- Gimbal provides ability to quickly respond to events such as new foreign launches and maneuvers.
- Flexible, open ground architecture provides ability to add additional satellites and sensors.
- Reprogrammable onboard software enables low-risk high-performance upgrades.

The Team

Boeing has overall responsibility for the SBSS system, the Ground System and initial mission operations, with Ball Aerospace providing the satellite and leveraging the Boeing onboard mission processor. The experienced USAF, Boeing, and Ball Aerospace team is committed to sustaining and advancing SBSS capabilities.

The Boeing Company

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