

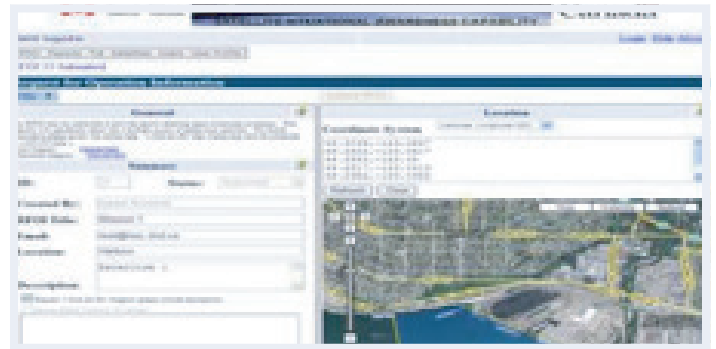
Department of National Defence Builds Satellite Situational Awareness Tool

AGI Components Help Assess Satellite Overflight Vulnerability Tool

UNCOVERING VULNERABILITY: Referencing publically available commercial satellite imagery to view locations on Earth has become so commonplace that we often do not give a second thought to the implications. In fact, overflight imagery can image military forces on the ground, potentially alerting unfriendly parties to deployed troops and the location of their facilities. Canada's Department of National Defence (DND) has noted this vulnerability—and is taking action to reduce the risks inherent in unfriendly parties learning the locations of their personnel and assets.

POWERFUL THREAT ASSESSMENT: To combat this vulnerability, decision makers needed an assessment tool detailing satellite coverage periods. The Joint Space Support Project (JSSP) of the DND's new online capability—Satellite Situational Awareness (SSA)—is hosted on the Consolidated Secure Network Infrastructure (CSNI). Developers employed AGI's STK Components development libraries to create a user-friendly graphical user interface (GUI). These components are available to other applications, reducing development risk even further. Users specify area of interest, types of satellite sensors, resolution, and coverage period to receive near-real-time information detailing satellite coverage threats.

AGI Components allowed the Canadian Department of National Defence to build a user-friendly interface that allows staff who are not familiar with space systems software to obtain reports over a secure network in near real-time.



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Overflight imagery can alert unfriendly parties to troop and facility locations. To combat this, Canada's DND needed a tool detailing satellite coverage periods. AGI's STK Components provided them with a user-friendly interface to obtain reports over a secure network in near real-time.

REAL-TIME RESULTS: AGI's user-friendly interface allowed DND staff unfamiliar with space systems software to obtain reports over a secure network in near real-time through a tool that will ensure greater security. Because other DND agencies already use AGI products, the organization decreased the time and risk of unproven solutions—or developing capabilities themselves—ensuring interoperability.