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## Generations of the Global Communications Infrastructure: The Role of Low Earth Orbit Satellites

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Broadband access and low latency are available globally thanks to the increasing availability of low earth orbit satellites. There are a variety of geographical locations where the International Monitoring System stations are installed that could benefit from this type of service. Maximizing data availability and simplifying complex infrastructure -normally associated with the deployment of VSATs- and providing innovative services and applications through broadband availability would enhance not only transmission of data but also the customer experience available to a station operator in remote regions. Currently, GCI III is moving through its mid life cycle and technology refreshment; the GCI IV planning will begin in the mid term, with initial deployments within five years.

Currently there are three constellations of satellites in different degrees of deployment with some other providers in the planning stage. This paper presents the technology and explores its potential application in selected remote locations to provide an overview of potential improvements in the transmission of data. It also provides the possibility of novel applications for station operators that are typically subject to bandwidth limitations and latency issues.

## **Promotional text**

Broadband access and enhanced reliability: Possibilities of new levels of service for IMS station operators and OSI inspections.

## E-mail

fernando.araujo.2014@ieee.org

## **Oral preference format**

in-person

Primary author: Mr ARAUJO, Fernando (Institute of Electrical and Electronic Engineers (IEEE))

Presenter: Mr ARAUJO, Fernando (Institute of Electrical and Electronic Engineers (IEEE))

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