

# Introduction to Mercury ES IP Voice Communications



## Unlock the full potential of your communications

Mercury ES is Trilogy Communications latest development in a long line of audio communication solutions. Developed out of the same world leading technology as Mercury, our audio interoperability solution, Mercury ES facilitates network based VoIP communications between different security levels and also across domains whilst ensuring IP separation.

Mercury ES is especially applicable to the gathering, analysis and distribution of intelligence where information from a number of sources can be used to create the fullest picture possible. This is of particular importance when those sources have different security clearance levels and are operated by different agencies/organisations.

Trilogy has been supplying communications equipment to defence customers such as Northrop Grumman and Thales since 1986. In addition Trilogy serves the broadcast, commercial/industrial and emergency management sectors where clients including the BBC, BAE Systems and the European parliament all rely on our solutions.

## Key Points

- Proven track record since 1986
- Specialised in audio communications systems for the most demanding applications
- Creating systems that unlock the full potential of your communications, allowing cross domain and multi level discussion and dissemination of mission critical data without delays
- High profile installations in the defence sector with clients such as the US Air Force, California National Guard and the Royal Netherlands Air Force relying on our technology



Mercury ES provides MLS and Cross Domain communications and integration with with all radio types and standard, mobile or SIP phones



**Mercury ES**  
Intelligent Communication

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## Distributed Common Ground Communications (DCGS), Installations Worldwide

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Trilogy is the key supplier of voice communications infrastructure to Raytheon Intelligence & Information Systems for the U.S. Air Force's ISR global network weapon system, the Distributed Common Ground System (DCGS). Trilogy is responsible for delivering the Mercury IP voice communications platform which replaces existing intercom systems and allows crew communications to be conducted globally over IP-based intercom, radio and telephone links.

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## Encrypted Airborne Communications via a ground based WAN, Netherlands

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Thales Air Operations chose a Mercury IP communications system for use with a number of ViaSat MIDS LVT terminals located across the Netherlands. These MIDS terminals were then linked together to provide encrypted airborne fighter communications via a ground based WAN throughout the country.

Trilogy provided Mercury Interface Units (MIU's) equipped with radio interface boards to provide COR and PTT functionality as well as the audio communications connections. The whole Mercury network is controlled and configured over the WAN via a touchscreen "virtual control panel" and the Mercury Configuration Editor which run on the same computer.

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## Homeland Security: Radiation Detection and Analysis, Washington, USA

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Trilogy was chosen by Pacific Northwest National Laboratory to provide voice communications infrastructure in support of the United States Custom and Border Protection (CBP) Radiation Portal Monitor (RPM) project. By the conclusion of the project, more than 100 seaport terminals will be outfitted with RPM systems. A typical RPM deployment includes a primary RPM for pass/fail screening of vehicles and a secondary RPM, which is isolated from the main traffic flow. The secondary RPM is used when a vehicle passing through the primary RPM exceeds a predetermined and preset radiation level. When the level is exceeded, an alarm notifies CBP officers, who then route the vehicle to the secondary RPM for further assessment. Mercury is used to conduct IP-based voice communications between CBP personnel and vehicle operators as well as between CBP booth personnel.

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## I-HITS Program, California, USA

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Cubic Simulation Systems chose Trilogy to provide voice communications infrastructure for the Initial - Homestation Instrumentation Training System (I-HITS) program. I-HITS provides the capability to conduct realistic training, exercising all battlefield operating systems, including non-line-of-sight weapons and new and emerging weapons and simulations. Mercury is used to conduct IP-based communications as well as inter-operate with existing voice communications infrastructure.

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