

## Data Diode

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### Copyright Summary

The protection of data, processes, and information in virtual and physical computing environments and from both internal and external threats is paramount to today's government and commercial enterprises. The Data Diode is a data security technology that can be deployed within an organization's defense-in-depth computer network strategy for information assurance. For internal security, the software creates an environment within the network where an organization's approved users can work freely inside an enclave of protected data, but file transfers out of the enclave is restricted. For external security, once a network intruder has penetrated the network, the intruder is able to "see" the protected data, but is unable to download the actual data. During the time it takes for the intruder to search for a way around the obstacle created by the Data Diode, the network's intrusion detection technologies can locate and thwart the malicious intent of the intruder. Development of the Data Diode technology was made possible by funding from the Intelligence Advanced Research Projects Activity (IARPA).

### Inventor

MACINTYRE, LAWRENCE PAUL  
Computational Sciences and Engineering Division

### Licensing Contact

SIMS, DAVID L. UT-Battelle, LLC  
Oak Ridge National Laboratory  
Rm 124C, Bldg 4500N, MS: 6196  
1 Bethel Valley Road  
Oak Ridge, TN 37831  
Office Phone: (865) 241-3808  
E-mail: [SIMSDL@ORNL.GOV](mailto:SIMSDL@ORNL.GOV)

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