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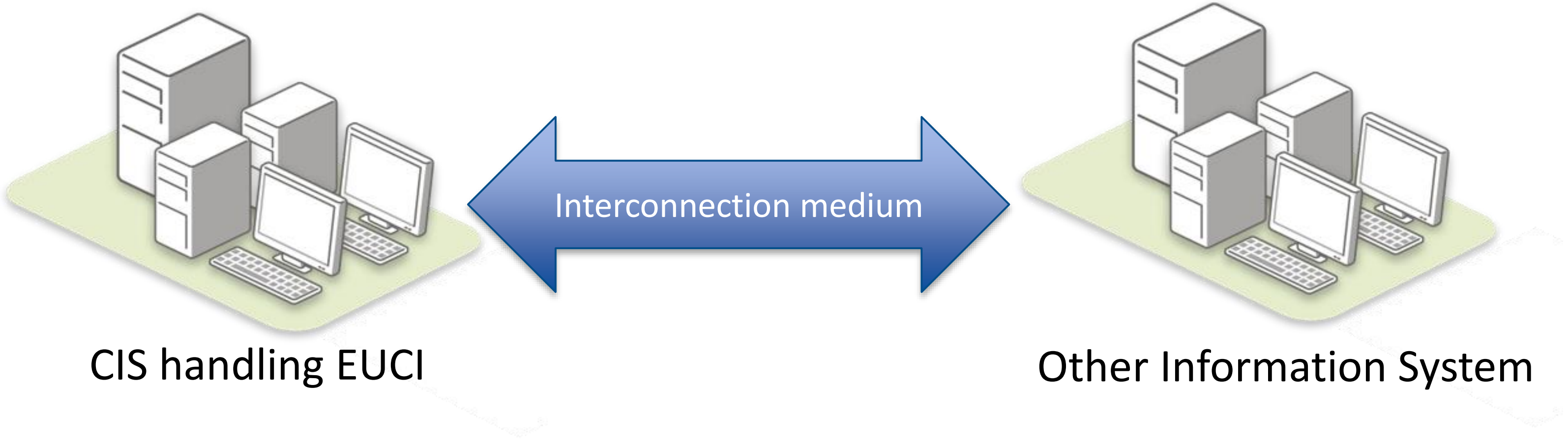
Resolving the EU interconnection requirement

Stefan Larsson, National Security

Information Assurance Security Policy on Interconnection

The Council Security Committee

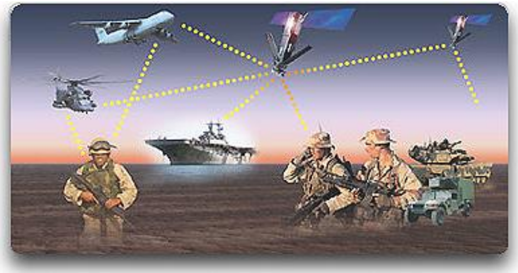


Challenges

- Risk of enabling unauthorised information exchange
- Risk of transferring vulnerabilities between security domains
- Increasing internal exposure of sensitive information (e.g. to administrators)

Examples of other organisations facing similar issues

- Armed forces between security domains, and also with coalition partners



- Security and intelligence organisations within and between organisations

- Border control forces with security and intelligence organisations

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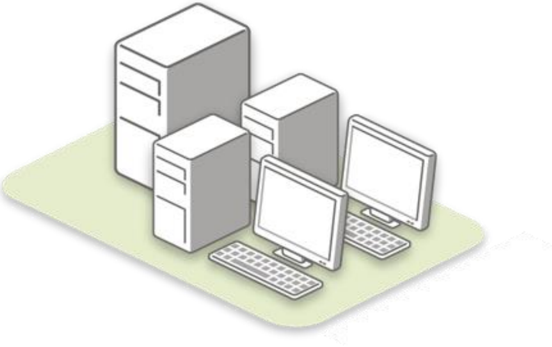
Flow direction



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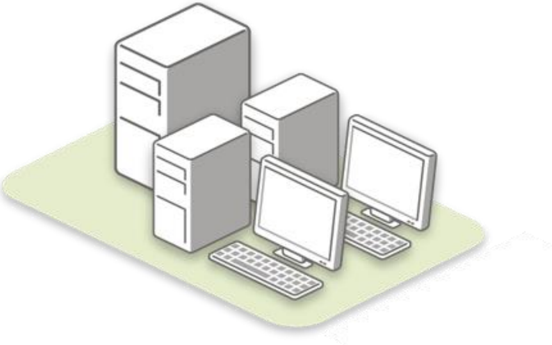
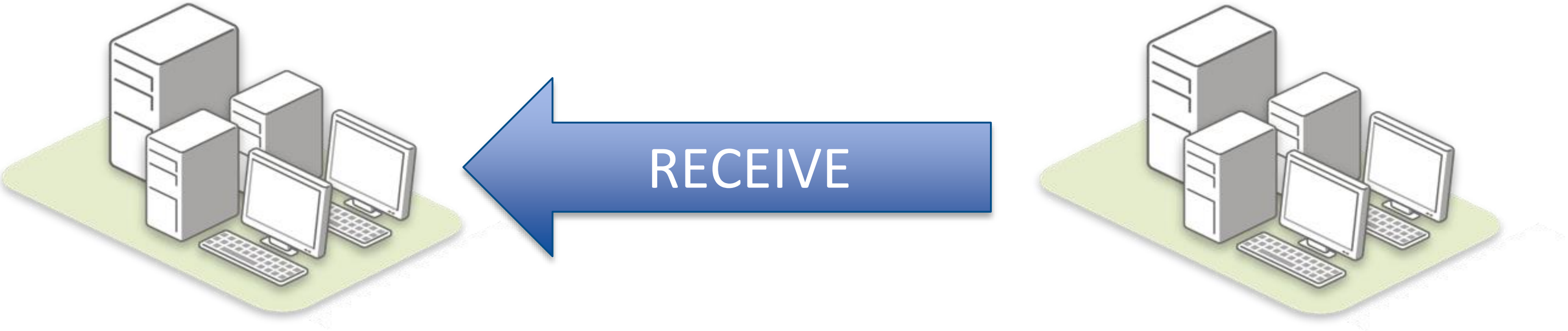
NONE



Other Information System

Flow direction



RECEIVE

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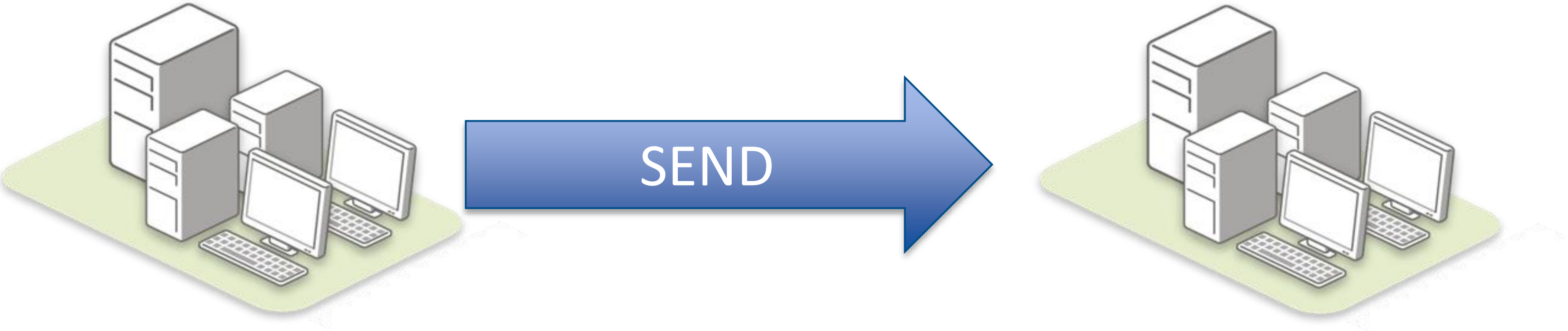
Other Information System

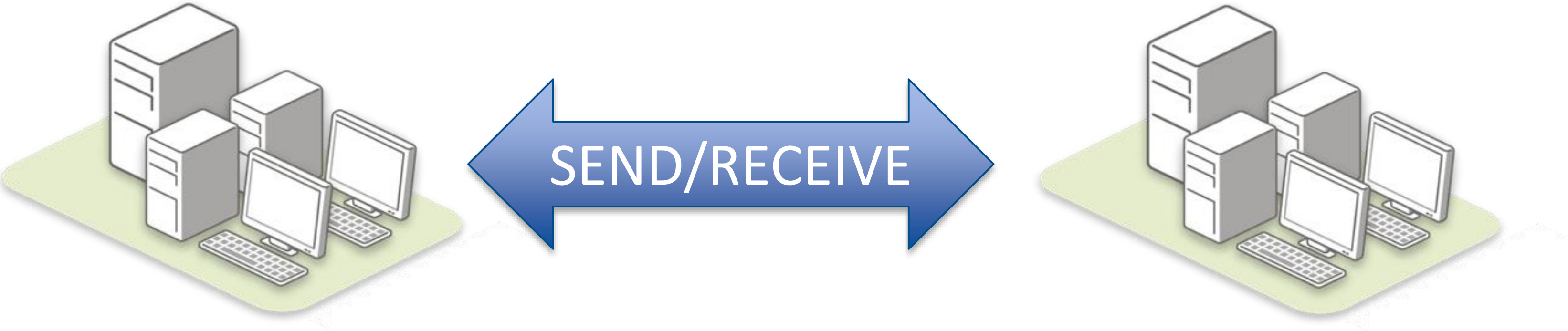
Flow direction



CIS handling EUCI

Other Information System

Flow direction



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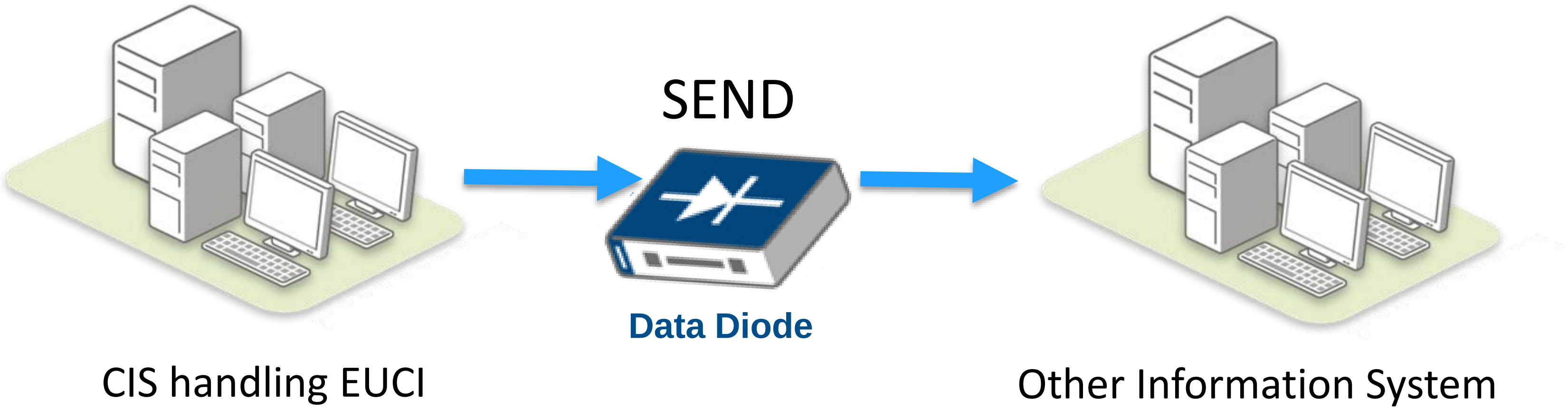
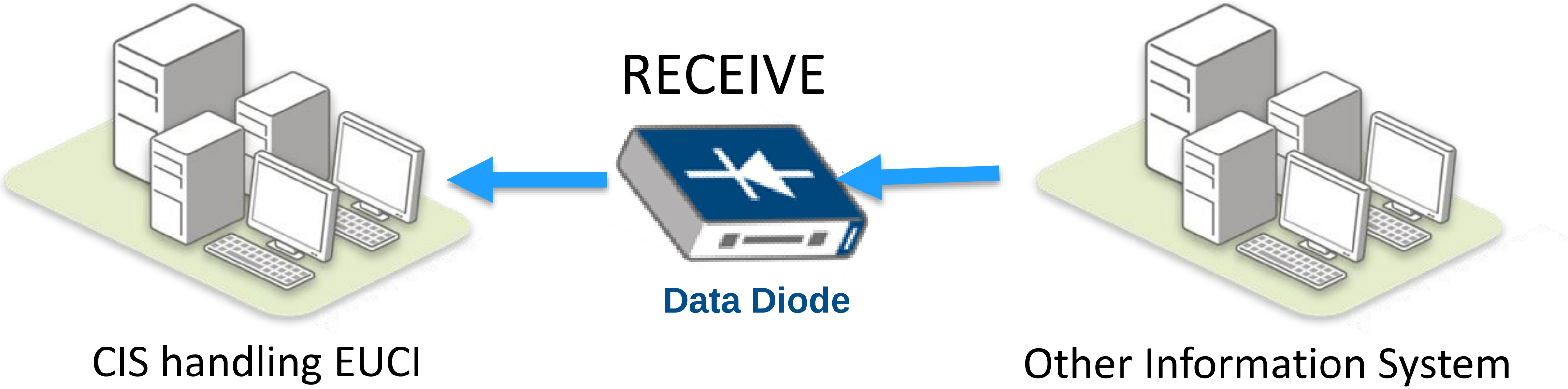
Other Information System

Resolving the requirement with Cross Domain Solutions

Enabling one-way information flow

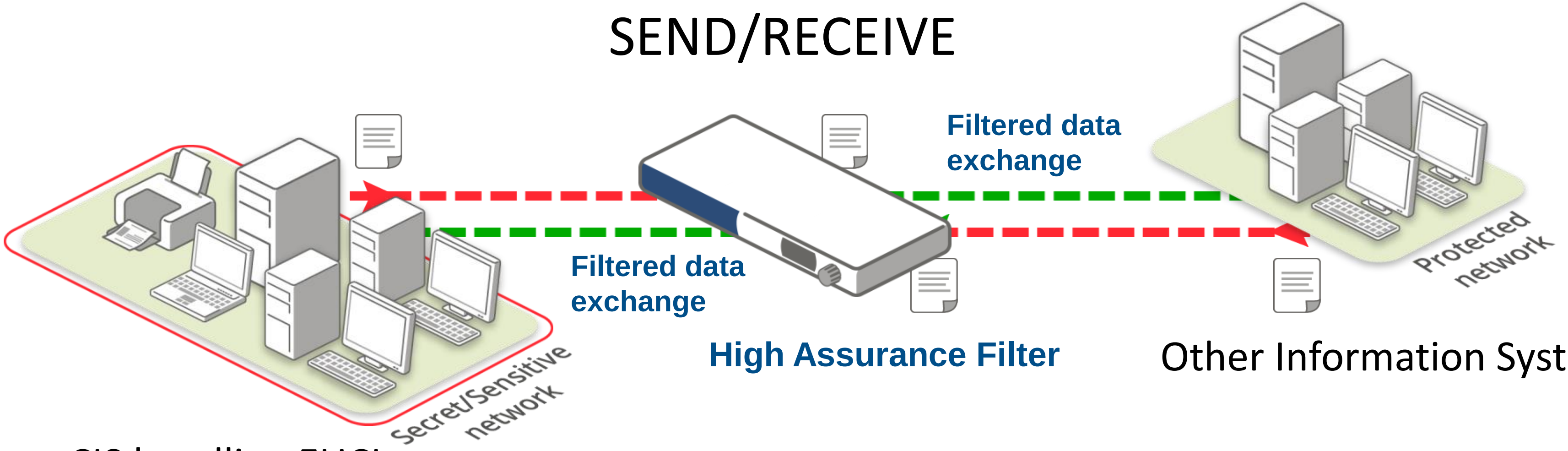


Enabling one-way information flow



Enabling two-way information flow

SEND/RECEIVE



High Assurance Filter

Other Information System

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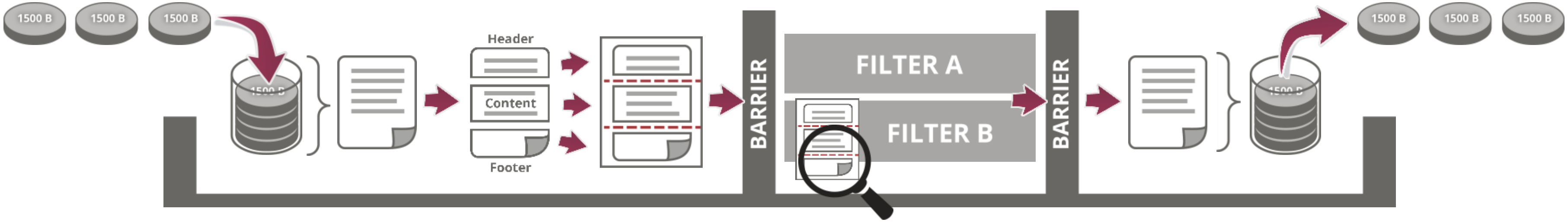
Filtering in practice



Example:

- ☑ Receiver
- ☑ Sender
- ☑ Content
- ☑ Size
- ☑ Digital signature
- ☑ No attachments

OK

Benefits of filtering

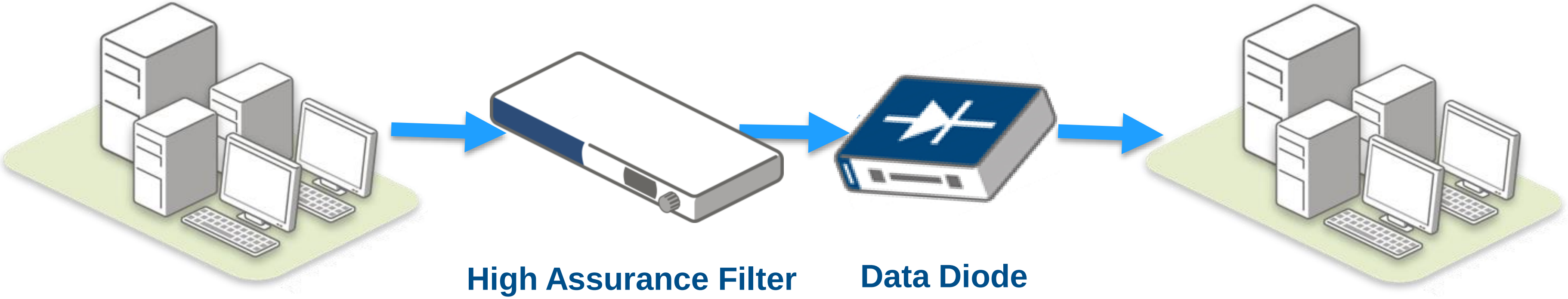
- Malware does not survive transformation

- Only information that adheres to signed policy can pass through

APPROVED

- Administrators cannot access sensitive information (*depends on supplier*)

Example of maximum assurance solution



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High Assurance Filter

Data Diode

Other Information System

Thank you!

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