

# CERT operational gaps and overlaps

ENISA's report - December 2011

<http://www.enisa.europa.eu/act/cert/other-work/gaps-overlaps-report>

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# My goal for today is to...

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Meet you...greet you...chat with you!

## In addition

- Introduce an interesting report for and from our community
- Discuss with you the findings and recommendations
- Continue receiving your feedback concerning ENISA's future activities in the CERT area...
- ...and, of course, drink a coffee (beer) with you!

## Objectives

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### **WP2011 > WS1 > WPK 1.4 > Analysis of operational gaps and overlaps on European level**

Under its mandate ENISA has been tasked with analysing how CERT cooperation can be further facilitated on a European level, by examining operational needs and whether overlaps exist.

- ★ Analysis of key operational activities that the national / governmental CERTs carry out
- ★ Focus on main services:
  - ★ Incident Handling
  - ★ Alerts & Warnings
  - ★ Malware analysis (Artifact handling)
  - ★ other
- ★ Suggestions for ENISA how to further complement and facilitate these activities

## Methodology

- ★ **Desktop research** – on operational activities that the n/g CERTs in Europe carry out to support their constituency...
- ↓
- ★ **Project survey** – 20 CERTs responded
- ↓
- ★ **Follow up interviews** –...CERT Bulgaria, CERT-BUND, CERT.GOV.PL, Danish GovCERT, IRISS-CERT, mtCERT,...
- ↓
- ★ **Project analysis** of all gathered information
- ↓
- ★ **Observations**
- ↓
- ★ **Recommendations**

(the survey aimed to determine which services are most commonly provided and where the CERTs themselves see the most opportunities for reducing overlaps and opportunities where ENISA could possibly support them. The survey also gave participants the opportunity to enter their personal views in open comment fields.)

that could:  
complement and  
facilitate, on European  
level, operational  
activities carried out  
by n/g CERTs (**gaps**)

streamline and  
facilitate, on European  
level, operational  
activities carried out  
by n/g CERTs  
(**overlaps**).

## Gaps and overlaps - observations

some of them...

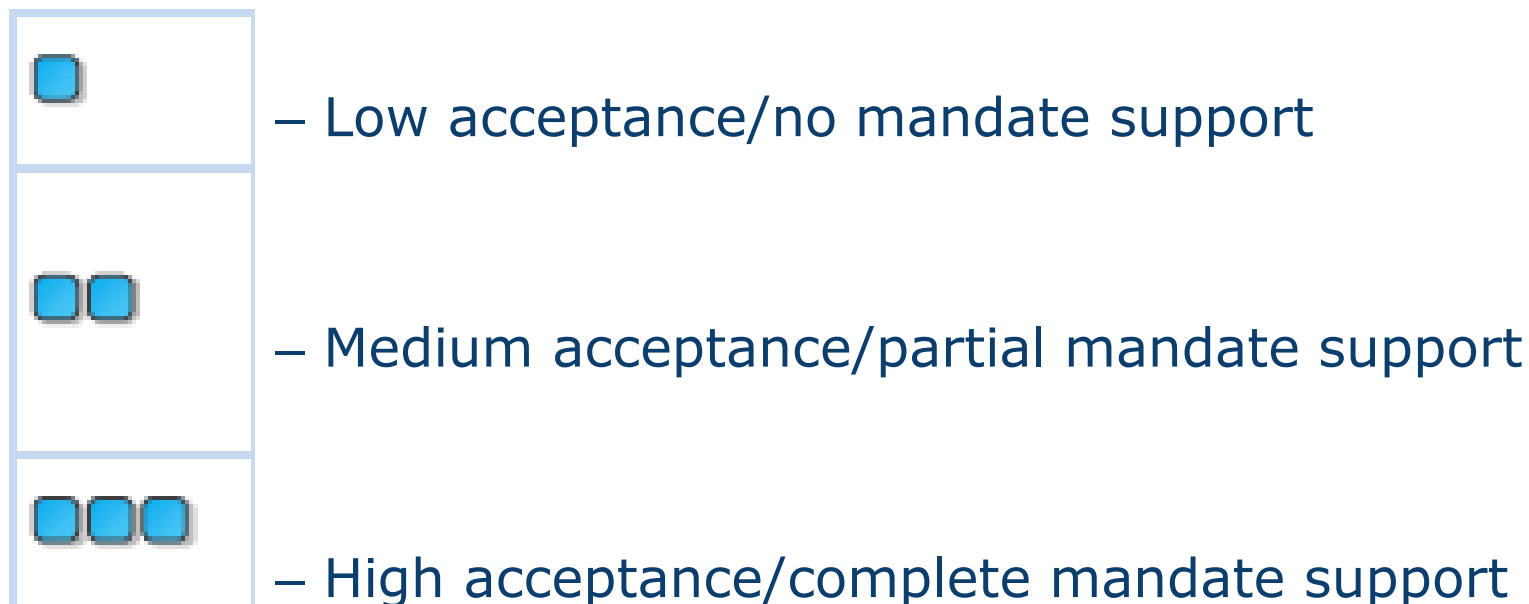
*Based on the survey responses from the n/g CERTs, the incident handling and alerts & warning services provide the most opportunity for at least some synergies with other CERTs or with central bodies.*

- **Incident handling** - recognised as the service which is the most eligible for synergies, incident handling also appears to be the service on which the CERTs cooperate the most;
- **Announcements** - While 15 out of 20 respondents acknowledged the potential for synergies, only half of them actively cooperate on providing this service;
- **Alerts & warnings** - About the same number of respondents believe in the eligibility for cooperation compared to the announcements service, while more respondents are already cooperating;
- The same phenomenon is noticed for **artifact handling**.

## Gaps and overlaps - recommendations

*...in the operational aspects of the services provided by national/governmental CERTs, in order to complement and facilitate the current operations of the CERTs on a European level.*

Two Scoring systems: 1. support by the stakeholders;  
2. ENISA mandate support.



## Gaps and overlaps – recommendations

Observation	Gap or overlap	CERT community acceptance	ENISA mandate support
Harmonisation of legal framework for information sharing and international incident handling	Gap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Guidance and direction based on observed trends	Gap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Industry partnerships	Overlap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
European institutions CERT	Gap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Providing specialised training	Gap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Closed CERT-community contacts directory	Overlap	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Incident classification and reporting standardisation	Gap	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
CERT process guidance	Gap	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Stimulating and providing means to centrally exchange information on alerts & warnings among CERTs	Gap	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Providing CERT communications channels	Gap	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

## Wrap up

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- ★ Gathered information / opinion of external parties
  - ★ Different CERTs have very different views / needs
- ★ Suggestions for ENISA how to further complement and facilitate CERT activities
- ★ 17 recommendations for future activities
  - ★ Assessed relevance to the current and proposed ENISA mandate
  - ★ Assessed 'CERT community acceptance' level



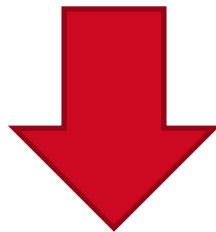
## Impact

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- ★ Alignment of future ENISA activities in CERT area with our community needs and expectations



- ★ Improved and more efficient services provided by national / governmental CERTs



**Improved IT security in Europe**

# Contact

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