Benefits Obtained from the Use of a Geographic Information System “GRAFIMAR” to Monitor Maritime Shipping and Port activities

Submitted by: Chile
THIRD CONFERENCE ON SECURE TRADE IN THE APEC REGION

Benefits obtained from the use of a Geographic Information System “GRAFIMAR” to monitor Maritime Shipping and Port activities.

Maritime Security – Panel 2
I. Geographic Information System
   GRAFIMAR.

II. Methods for integrating data.

III. Benefits from the use of GRAFIMAR
     and its projections.
All software used in the development of GRAFIMAR belong to the “closed source” type, i.e., proprietary standard products.

About GRAFIMAR

It is a Geographic Information System which interacts with source applications, being able to graphically display different real-time dynamic scenarios.

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GRAFIMAR Web Version
Operation under Internet Protocols.
CONTENTS

I. Geographic Information System GRAFIMAR.
   A. About GRAFIMAR.
   B. How the System works.
   C. Development Architecture.
II. Methods for integrating data.
III. Benefits from the use of GRAFIMAR and its projections.

HOW IT WORKS

SOURCE APPLICATIONS
- Maritime Authority

DATA STORAGE

INTERNET
- External Databases
- Public and Private Entities

GRAFIMAR
GRAFIMAR

HOW IT WORKS

Data processing when entering into our Search and Rescue Area of Responsibility.

Displacement monitoring by dead reckoning.

CHILE
29,500,500 Kms²

Display capabilities:

- Vessels fitted with satellite positioning system.
- Vessels fitted with AIS.
- Dead reckoning.

Sources:

- System LANTANO.
- Chilrep.
- Maritime Patrols.
About the Network DATAMAR

It is a Network of wide area (WAN), multiservice, of national coverage, based on the protocol IP, which provides the platform of transport for all services of exchange of information (voice, video and data), defined by the strategy of DIRECTEMAR.

1,700 PC connected
84 Servers

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   A. Benefits obtained.
   B. Development Projections.
Benefits from the use of GRAFIMAR

- Application of the concept "single window"
- Permanent use of technology from 1995
- Standards for electronic information exchange
- Useful and reliable tool
- Open architecture GIS
- Useful management tool in the decision making process

CONTENT

I. Geographic Information System GRAFIMAR.

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   A. Benefits obtained.

   B. Development Projections.
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END OF PRESENTATION