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**20020033471** Research and Technology Organization, Information Systems Technology Panel, Neuilly-sur-Seine, France
**Intrusion Detection: Generics and State-of-the-Art** ***La Detection de l'intrusion: Modeles Generiques et Etat de l'Art***
Coolen, R., Physics and Electronics Lab. TNO, Netherlands; Luiijf, H. A. M., Physics and Electronics Lab. TNO, Netherlands; January 2002, 50p; In English; Original contains color illustrations; CD-ROM contains full text document in PDF format
Report No.(s): RTO-TR-049; AC/323(IST-008)TP/15; ISBN 92-837-1079-7; Copyright Waived; Avail: CASI; C01, CD-ROM; A03, Hardcopy; A01, Microfiche

This report presents the generics and describes state-of-the-art of Intrusion Detection Systems (IDSs). The report also aims at highlighting some of the issues for use of co-operative IDSs in a coalition environment. To facilitate the discussions and analysis, generic models are introduced. This includes the IDS generic model, where an IDS consists of sensor, management and alarm-processing components and optionally may have reaction, deception, and visualization components. To show how IDSs can be deployed and operate at different locations in a Communication and Information System (CIS), a generic model based on the CIS architecture is introduced as well. Finally, these generic models are extended as a way to look at intrusion detection in a coalition environment. The report describes and discusses IDS analyzer techniques, examples of commercial products, standardization efforts, and several issues regarding interoperability, management, performance, availability, and privacy. Furthermore IDSs are discussed in relation to early warning of an intrusion in a CIS, and the need for evidence collection after an intrusion has occurred. The discussions and analysis show that IDSs are useful in detection of intrusions in a CIS, even though several black spots are identified. It is also shown that IDS deployment and co-operation in coalition environments still need a great deal of research, development, standardization, together with policy and management considerations.
Author
*Information Systems; Intrusion; Warning Systems; Computer Information Security*

**20020039422** Research and Technology Organization, Applied Vehicle Technology Panel, Neuilly-sur-Seine, France
**Design Loads for Future Aircraft** ***Les Charges de Calcul pour de Futurs Aeronefs***
February 2002, 300p; In English; Original contains color illustrations; CD-ROM contains full text document in PDF format
Report No.(s): RTO-TR-045; AC/323(AVT-024)TP/30; ISBN 92-837-1077-0; Copyright Waived; Avail: CASI; C01, CD-ROM; A13, Hardcopy; A03, Microfiche

This RTO (Research and Technology Organization, NATO (North Atlantic Treaty Organization)) Task Group reviewed the requirements which regular flight and maneuvering will put as design loads on the structure of future NATO aircraft, addressing also safety aspects, structural weight, elastic effects and influence of the control system. Treated are: load critical flight maneuvers as well as external loads such as induced by turbulence. Existing specifications are reviewed and procedures for establishing design loads are presented. Metal and composite structures are treated, and the analysis

pertains to main structures as well as critical subassemblies. Under operational aspects the monitoring of loads and of structural fatigue are treated and some actual failure cases are analyzed. The request for NATO agreements on relevant design criteria is mentioned.

Author

*Design Analysis; Aircraft Design; Aircraft Specifications; Aircraft Safety; North Atlantic Treaty Organization (NATO)*