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# Evaluation of Grid Security Solutions using Common Criteria

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In the evolution of computational grids, security threats were overlooked in the desire to implement a high performance distributed computational system. But now the growing size and profile of the grid require comprehensive security solutions as they are critical to the success of the endeavour. A comprehensive security system, capable of responding to any attack on grid resources, is indispensable to guarantee its anticipated adoption by both the users and the resource providers. Some security teams have started working on establishing in-depth security solutions. The evaluation of their grid security solutions requires excellent criteria to assure sufficient security to meet the needs of its users and resource providers. Grid community's lack of experience in the exercise of the Common Criteria (CC), which was adopted in 1999 as an international standard for security product evaluation, makes it imperative that efforts be exerted to investigate the prospective influence of the CC in advancing the state of grid security. This article highlights the contribution of the CC to establishing confidence in grid security, which is still in need of considerable attention from its designers. The process of security evaluation is outlined and the roles each part of the evaluation may play in obtaining confidence are examined.

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