
Compiled Labelled Deductive Systems for Access Control

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ABSTRACT. This paper proposes a Compiled Labelled Deductive System, called *AC_{CLDS}*, for reasoning about role-based access control in distributed systems, which builds upon Massacci's tableau system for role-based access control. The *AC_{CLDS}* system overcomes some of the limitations of Massacci's approach by combining its multi-modal propositional language with a labelling algebra that allows reasoning explicitly about *dynamic properties* of the accessibility relations. This combined feature, which is typical of the Compiled Labelled Deductive framework, facilitates a sound and complete, and more natural *AC_{CLDS}* reasoning mechanism than Massacci's sound and only partially complete tableau system. Limitations of the usefulness of Massacci's multi-modal logic in formalising access control systems are also discussed, showing that they relate to the initial formulation of Abadi's calculus for access control. Solutions for overcoming these limitations are briefly proposed within the context of the *AC_{CLDS}* system.

1 Introduction

Labelled Deductive Systems (LDS) is a methodology initially proposed by Gabbay in [18] for both the theoretical study of logics and the development of logical systems suitable for the needs of specific applications. In the LDS approach, a basic unit of information is not just a formula but a *labelled formula*, where the label belongs to a given labelling algebra. Additional information, for example regarding the overall structure of the data or the underlying semantic properties of the logic, can be explicitly embodied, via the labels, in the object language of the system. Derivation rules act on both the labels and the formulae, according to certain fixed rules of propagation. The addition of this separate "object-level" dimension (i.e. labels and labelling algebra) enables the development of a *uniform* system

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