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**CIIP in Australia:
A review of current and proposed R&D initiatives**

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Summary

In 2002, Prime Minister John Howard announced a set of national priorities to guide Australia's future research and development (R&D) activities. The purpose of one of these priorities, *Safeguarding Australia*, is to enhance Australia's capacity to anticipate and manage critical threats to society and relevant strategic areas. This priority includes R&D initiatives that aim to protect Australia's critical infrastructure, to protect the Australian economy and society from terrorism and crime, and to develop transformational technologies.

Against this backdrop, a number of R&D initiatives designed to enhance the robustness of Australia's national information infrastructure (NII) have emerged. The NII comprises those information and communication networks essential to the wellbeing of Australian society. Specifically, it includes the information and communication technologies that are core to various public and private sector industries including telecommunications, banking and finance, transport and distribution, energy and utilities, defence, and emergency services.

This paper reviews the major R&D activities currently being conducted in the Australian NII domain. These activities can be divided into two overlapping groups - those being conducted by (i) Australian Government agencies, and (ii) the Australian university sector. With regard to Australian Government initiatives, particular attention will be paid to the following:

- The *Trusted Information Sharing Network (TISN)* and the *Publicly-Funded Agencies Collaborative Counter-Terrorism (PACCT)* initiative;
- The *Critical Infrastructure Protection Modelling and Analysis (CIPMA)* capability; and,
- CIIP-relevant 'long range research' programs.

With regard to university-based initiatives, particular attention will be paid to:

- The *Research Network for a Secure Australia (RNSA)* initiative; and
- R&D relating to NII security risk analysis and interdependency modeling.

A summary of future R&D priorities relevant to CIIP in Australia, including key collaborations, will also be provided.