

ePASA

Solving system complexities
in business and government

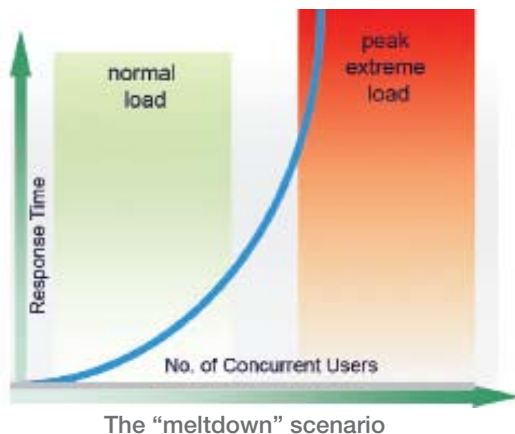


At a Glance

NICTA's e-Government Performance Assessment for Service Architectures (ePASA) team has created technologies that allow organisations to confidently build, manage and alter the large complex ICT systems that support the delivery of vital services to customers.

ePASA helps users uncover the performance details of large systems and to spot the problem areas that could cause them to fail. Possible changes to an IT system are simulated rapidly so that system alterations and upgrades can be implemented safely, providing more reliable delivery of services and avoidance of catastrophic meltdowns.

ePASA is now a commercial-ready technology developed through a program of empirical research with partners in government and industry.



The NICTA Approach

NICTA technologies are based on scientific rigour and developed in collaboration with public and private sector trial partners to provide 'real-world' technology validation.

NICTA ePASA has been refined and tested through extensive field trials that have repeatedly demonstrated measurable business value to collaborating partners.

The Features

- NICTA ePASA is a modelling and simulation technology that allows organisations to flush out the performance characteristics of their complex IT environment
- Use in heterogeneous environments to model end-to-end systems, regardless of specific vendor components
- 'What if' simulations allow the architect to explore alternative system designs and therefore avert performance problems before system implementation.

The Benefits

- NICTA ePASA can help you determine whether new customer-facing systems will melt down under heavy load before they are deployed in production
- System modelling features allow the end-to-end components of internal and customer-facing services to be fully captured and simulated
- Cost effective performance and system availability risk management
- When used throughout the project lifecycle, ePASA will detect serious architectural flaws to save time and massive re-work costs.

The Future

- NICTA ePASA is available now for proof-of-concept and production-scale deployments in financial services, utilities and telcos, retail and logistics, public sector agencies and defence
- We continue to seek delivery partners to acquire ePASA implementation capability
- We are seeking strategic innovation partnerships with customer organisations that want to help shape the future technology directions of the solution.

From imagination to impact



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NICTA

NICTA is Australia's Information and Communications Technology (ICT) Research Centre of Excellence and the largest organisation in Australia dedicated to ICT research. NICTA drives innovation through high-quality research, research training and technology transfer.





Our researchers are located in five laboratories located in four cities around Australia: Melbourne, Sydney, Canberra and Brisbane. Working in specialised teams, they are focused on a series of specific research themes and business areas.

Our work as a world-class research institute and Centre of Excellence in science and innovation brings together many of Australia's and the world's top ICT researchers. NICTA provides them with the facilities and support they require, making our vision a reality.

NICTA's unique approach fosters and develops ICT research. We work closely with both industry and other research institutions to solve problems and make breakthroughs in ICT with real impact.

NICTA's focus on use-inspired research means our projects have direct relevance to the challenges faced by business, government and individuals around the world. The result is breakthrough technologies that provide commercial opportunities and have a positive impact on Australia's export earnings.

Our Research Themes:

-  Embedded Systems
-  Networked Systems
-  Making Sense of Data
-  Managing Complexity

Our Business Areas:

-  Biomedical and Life Sciences
-  Environmental Management
-  Intelligent Transport Systems
-  Mobile Systems and Services
-  Safety and Security
-  Software Infrastructure



For more information about ePASA

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Australian Government
 Department of Broadband, Communications and the Digital Economy
 Australian Research Council

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NICTA Partners