



REPUBLIC OF NAMIBIA

MINISTRY OF BASIC EDUCATION AND CULTURE

DIRECTORATE OF NATIONAL EXAMINATIONS AND ASSESSMENT

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TO WHOM IT MAY CONCERN

**HIGH-LEVEL SECURITY SYSTEM INTRODUCED FOR EXAMINATION
CERTIFICATES**

The Department of National Examination and Assessments (DNEA) of the Ministry of Basic Education of Namibia has now completed the installation of a new high-level security system for examination certificates. CARMA (computer access reporting, management and administration) will provide a vastly increased level of protection for the results of Junior School Certificate Examinations (JSC), International General Certificate of Senior Examinations (IGCSE) and Higher International General Certificate of Senior Examinations (HIGCSE). Previously, DNEA's systems had limited security, thus the protection of data from unauthorized users required constant monitoring by IT administrators.

With the introduction of CARMA, illegal access by unauthorized parties as well as attempts at the manipulation of examination data and results have now become a thing of the past. External system protection against outside intruders is provided by a firewall that only allows access from pre-defined Internet Protocol (IP) addresses. Internally, CARMA allows DNEA to tailor specific access to various systems and applications at all levels from general users with limited authorization to senior management with high-level clearance. CARMA allowed DNEA to build its security from the ground up, with flexible controls that allow

administrators to restrict access down to a command level, and a bullet-proof audit function that maintains highly-accurate records of all system users. With its multi-platform capabilities, CARMA is ideally suited to DNEA mixed operating environment that includes UNIX, LINUX in a legacy system environment. In addition, CARMA reduces expenses associated with application access modifications, expansion of existing applications, and the integration of all system administration tools, back-ups and file transfers. In the future, DNEA plans to use its new security software to allow integrated schools to access examination information on-line.

The simplicity introduced by CARMA to a complex operating environment has drastically reduced the administrative work-load while increasing control over the systems. This saves both time and costs in various areas, including the training of new staff. The newly integrated security features also bring peace of mind. Future system auditing by the Auditor General Office can now be done from their offices without the need to inspect DNEA computer environment on site.

We thank Diamond Systems for a CARMA integration well done.

Kind regards

A handwritten signature in black ink, appearing to read 'Dennis Koch', written over a horizontal line.

Dennis Koch
IT Manager, DNEA