

Information Management Solutions

Nucleus Technology™

Power Tools for IT



Nucleus Technology™ enables the enterprise to rapidly address the needs of changing environments and cross-platform complexities, while ensuring that the cost of maintenance and support does not spiral out of control.

Today's commerce places heavy demands on already overworked Information Technology (IT) groups and information systems. Being able to quickly adapt to rapidly changing markets and the ever-increasing demands of customers, vendors and government regulations can be assured with Nucleus Technology™.

Nucleus Technology™ enables supporting multiple platforms, environments, and a varied mix of PC's, GUI, dumb terminals, and Internet applications. Reliably transferring information to and from vendors and customers in an increasingly complicated mix of EDI, FTP, TCP, SSH, SQL and XML can be achieved with Nucleus Technology™.

An integrated application environment:

Nucleus provides an integrated multi-user environment for developing, managing and supporting real-time business, government and scientific applications. Nucleus architecture incorporates a flexible and extensible RAD tool-set that will accelerate deployment, supporting the efforts of the most demanding software development teams. NuWiki™, derived from Nucleus Technology enables managing "soft" information such as documentation, manuals and web content that often defies categorization and will not fit within the confines of traditional databases.

GUI without the GOO:

Nucleus/NRG uses an easily manageable "thin-client" Graphic User Interface. Host-side "rule-sets" pass only data across the network, reducing network traffic and eliminating client-side support issues. Screens developed for text or character mode will work in GUI mode, usually without any change or modification. GUI screens may be modified independently of text/character based screens without affecting their operation.

A single rule-set residing on the host-framework supports the Nucleus Graphic User Interface (GUI), PC's in character-based color, as well as text-based RS-232 dumb terminals without code divergence, simplifying support. Multiple terminal types and user-interfaces may be deployed at the same time without conflict.

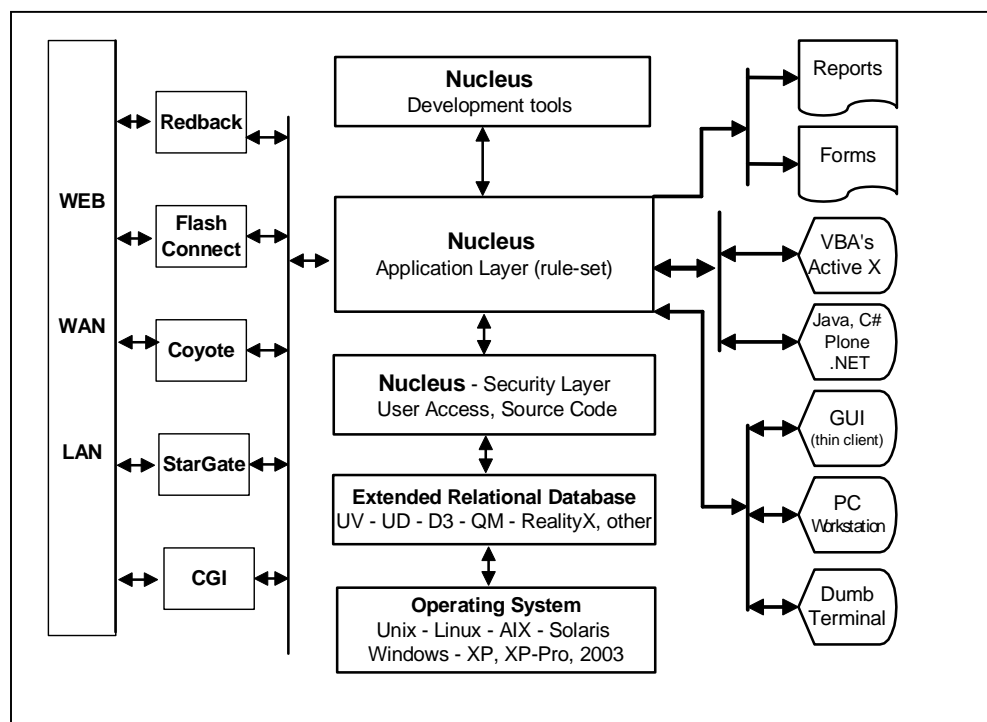
In the diagram:

The Application layer provides rules for the interaction of user requests to and from the database, through the security layer.

The Nucleus security layer interrogates each request to the database. Logic is fully isolated from the display.

I/O options include:
VBA, Java, .NET, Plone, PC workstation, Text, GUI, Telnet, RS-232 or CGI interface to Web, Wan or Lan. Other options exist.

Multiple O/S and Database systems are supported transparently.



Consistency of operation:

Applications and procedures developed with Nucleus have a remarkable consistency of operation even when created by different programmers. Navigation remains the same in all applications. The learning curve for new hires is shortened, and the costs of training are greatly reduced.

Short learning curve for the developer:

The approach used by Nucleus builds on the skills of programmers familiar with object oriented and extended relational database environments (NNF2 / "Pick"). Programmers can be productive within hours and expert within a few months. Programmers coming from object-oriented environments find Nucleus an easy transition.

Peaceful co-existence:

Nucleus will NOT forcibly take control of your environment and can peacefully co-exist with traditional applications.

Managing and protecting your software investment:

Safeguarding your investment in source code is imperative. Effective tools to manage the rollout of software from development to quality control, through production environments are 'built-in'. Version, change and propagation controls effectively:

- Manage the distribution of software source code for multiple platforms
- Support the distribution of software "patches" while maintaining control over Version numbers
- Manage the inclusion or exclusion of modified code as part of a software "release"
- Enable the inclusion of dictionaries, data, segments, subroutines and programs as part of a "release"
- Support the distribution of source and/or object code from Development to Production systems.
- Prevent programmers from stepping on one-another's code
- Ensure the safety, reliability and integrity of the source code on which the organization depends.

Security:

Security can be managed according to work-group or individual user profiles, across files, verbs, commands, accounts, menus and screens. Highly granular security is enforceable all the way down to the field level.

Cross-platform compatibility:

Code developed in the Nucleus environment can be "platform transparent". An expanding pre-compiler, automatically links platform specific code segments and user-defined functions into Data Basic code to provide 'flavor' independence.

- Cross-platform compatibility can be assured in organizations supporting multiple platforms
- D3, jBASE, UniVerse, UniData, QM Professional and other extended relational database platforms
- Nucleus applications can be moved from one platform to another, with only a re-compile and license transfer.

Web Applications:

Browser based applications using Nucleus can incorporate a wide variety of User Interface options.

A path to the future:

- Built-in data warehouse support, transaction auditing
- Data modeling, mapping, flattening, import and export
- Collaborative methods for "soft" data and document management

Nucleus technology allows the controlled integration of flat-file, relational and extended relational databases residing in IBM DB2 or SQL Server under Unix/Linux/AIX or Windows.

Nucleus Technology™ **Improving Access to Information**

BinaryStar Systems Inc.

Toll free: 1 (866) 882-1888 or +1 (954) 791-8575.

<http://www.binarystar.com> email: sales@binarystar.com

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