

# UltraQuest NOMAD Interface

## Benefits

- Full-featured reporting and analysis
- Centralized Data Definition Control
- Supports relational, hierarchical and hybrid data structures.
- Control of the data down to the field level
- Support for multiple data display formats and arrays.
- Access to multiple data sources

## Overview

Based on the relational data management model, NOMAD was the first commercial relational database implementation. The program retains much of its relational foundation, providing support for relational, multipath and multilevel hierarchical database structures. A NOMAD database can be structured as either relational or hierarchical, or can combine the two structures in a hybrid system.

UltraQuest's interfaces to other mainframe data sources, such as DB2, IMS, IDMS, VSAM and Teradata databases, make it easy to link information from multiple sources with NOMAD data. Users have a consistent view of the data because UltraQuest's retrieval and analysis commands operate identically on all supported file types with no special sub-environments to access.

## Interface Facilities

### *Database Structures:*

**Relational** — Data can be stored in a table structure. The rows correspond to the records and the columns to fields. The relationships between different records are established when the records are requested, not when they are stored. The associations of records are based on the values of specific fields within the records.

**Hierarchical** — In a NOMAD hierarchically structured database, the parent record is referred to as a master, and the dependent child is referred to as a segment. Parent and child relationships between records are maintained by embedded pointers within the records.

**Hybrid** — NOMAD also supports a hybrid data structure that combines attributes of both hierarchical and relational structures. Individual relations may have segments that are tied to the relation. Data may be accessed from multiple relations by using common key fields from the relations.

### *Important Security Features:*

NOMAD includes security checks at all levels of the database; users can restrict access by user ID or by data level and can vary the user access rights in specific portions of the database in order to permit read, write, or read/write access. Security is provided through a combination of multiple passwords and data encryption facilities.

### *Data Storage:*

**Multiple Formats** — Name, Date, Datetime, Text, Numeric and Alphanumeric

**Arrays** — One dimensional, Variable length, Time series and Multidimensional

**Access Types** — Standard, BTREE, Table lookups, Alternate indices, Joining databases and External masters.



To obtain more information, please contact Select Business Solutions at [www.selectbs.com](http://www.selectbs.com) or 1-888-472-7347.

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