IBM Global Name Recognition V3.1 delivers enhanced performance and faster time to value

At a glance

IBM Global Name Recognition (GNR) technology can be used to develop applications that spot fraud and other threats. It:

- Increases precision for name processing by delivering cultural classification as a range of scores for automated processing
- Adds intelligence to automated name processing by applying business rules specific to the name's culture
- Increases accuracy and selectivity by examining each possible name, rather than using a key-based approach
- Increases usefulness of search results by delivering matched names in ranked order with a confidence score for automated processing
- Reduces false positives by intelligently processing the cultural variations found in names

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800-IBM-CALL Reference: YE001

Overview

IBM Global Name Recognition (GNR) consists of a set of best-of-breed, name-recognition, and name-matching technologies that solve the complex problem of searching and managing personal name data in a multicultural, error-prone world. The technologies can be used to develop applications that spot fraud and other threats. The software takes into account alternative spellings, cultural nuances, and other linguistic issues in an attempt to return the most relevant information for a search query. This saves the user the time and expense of evaluating a long list of imprecise matches.

GNR technologies include:

- IBM Global Name Management V3.1
- IBM Global Name Analytics V3.1
- IBM Global Name Scoring V3.1
- IBM Global Name Reference Encyclopedia V3.1

The following optional features are also included in GNR:

- Transliteration for Global Name Management
- Transliteration for Global Name Scoring
Transliteration for Global Name Analytics

GNR V3.1 additional enhancements

- Country of association statistics are now available to increase the accuracy of results of the NameClassifier function. These statistics are delivered via expanded API calls. This allows users to balance and validate cultural information with distributional data from the GNR name data repository. Additionally, users receive a list of countries for which a name is associated that may be used to validate or enhance their name data.

- NameWorks, a new capability, delivers powerful functions with workflow assistance for the GNR technologies:
  - Global Name Scoring that supports name parsing, culture classification, and searching
  - Global Name Analytics that supports name parsing, culture classification, gender identification, and name variation generation
  - Global Name Management that supports all of the features of the Scoring and Analytics products

The Global Name Reference Encyclopedia does not use NameWorks, since it is not designed to be embedded in applications.

NameWorks offers Java™ API and Web services APIs:
  - Java-based wrappers around existing APIs make it easier to deploy new applications because of the higher level interface and workflow assistance.
  - Existing C++ APIs are still available and are enhanced with new APIs.

- GNR scales to meet the performance and list size needs of enterprise customers. The GNR search function is able to search lists of up to 200 million names with better response times, compared to the previous release of GNR that handled 40 million names on single processors. GNR V3.1 allows multiple instances of the NameHunter search engine to be distributed across multiple processors so that NameHunter can distribute and coordinate searches across name lists, thereby significantly improving performance.

- GNR provides an API to applications that enable them to distinguish business names from personal names. GNR also supports long business names.

- The name-regularization function in Global Name Management and Global Name Scoring enables the name-matching engine to recognize phonetic variations of names and supplement its orthographic searches with phonetic information in name searches for supported languages.

- GNR now enables users to supplement name searches with date-of-birth comparisons in name matching.

- Transliteration for Global Name Analytics is offered as an optional feature. As with the other transliteration optional features, users are able to specify names in the native script of supported languages.

Key prerequisites

Refer to the Hardware requirements and Software requirements sections.

Planned availability dates

- November 16, 2007: Electronic software delivery
- November 16, 2007: Media and documentation
Global Name Management V3.1

Global Name Management delivers a best-of-breed suite of name-analysis and name-matching technologies designed to address the specific needs and demands of managing, searching, scoring, and matching multicultural name data sets. It consists of the complete analytic and scoring capabilities.

While most traditional name-recognition software is designed to manage and score data assets in westernized, romanized cultures, Global Name Management was designed using a unique knowledge base of multicultural names. This knowledge base consists of the global linguistic knowledge and expertise gained from 20 years of linguistic research and the analysis of nearly a billion names from across the world.

Working from this knowledge base, GNR delivers a suite of tools designed to meet the unique demands of managing data sets from cultures as diverse as Anglo/European, Arabic, Chinese, Hispanic, French, German, Indian, Korean, Pakistani, Russian/Slavic, Thai, Japanese, West African, and more.

Global Name Management leverages name data from around the world and builds culture-specific methods to deliver the best matching, management, parsing, and scoring results. Global Name Management is an industry-leading technology that helps users search, analyze, and manage multicultural names to screen potential threats, perform background checks, and handle other mission-critical name data functions across multiple geographies and cultures.

Global Name Analytics V3.1

Global Name Analytics is a best-of-breed suite of name-analysis technologies that addresses the needs and demands of managing multicultural name data sets. By determining the cultural classification of a personal name, it provides accurate linguistic and statistical analyses of names, including:

- Recognizing gender, based on frequency information
- Determining which part of a name is likely to be the given name or surname
- Generating attested alternative Roman spellings of a name

Global Name Scoring V3.1

Global Name Scoring is a technology for orthographic and phonetics-based search and scoring of multicultural names in a database. Names can be matched even when they manifest spelling and cultural variations, are related by sound but not by spelling, or are altered by spelling or other data entry errors. The rampant name variation introduced by transliteration and pronunciation of unfamiliar names from around the globe can be handled by Global Name Scoring.

Global Name Scoring improves the accuracy and quality of identity-verification initiatives by providing ranked name search results based on the orthographic, phonetic, and syntactic patterns of names. Default search routines are supplemented with culture-specific rules and information, drawing from an international knowledge base derived from nearly a billion names and more than 20 years of research. An industry-leading technology, it lets users search, analyze, and manage multicultural names to screen potential threats, perform background checks, and handle other mission-critical name data functions across multiple geographies and cultures.

Global Name Reference Encyclopedia V3.1

This easy-to-use interactive encyclopedia focuses on information about names from countries and cultures around the globe. For each of the 14 featured types of names, it provides detailed culture-specific information about spelling and syntax patterns, the words and particles contained in the names, commonly used names, titles, and so on. The encyclopedia also returns information about particular names entered by the user. It is a stand-alone offering that leverages a vast store of cultural and linguistic knowledge based on the study of nearly a billion names from every country in the world.

Global Name Reference Encyclopedia improvements:

- User interface
• Upgraded version of Windows®
• Culturally sensitive name entry support, handling more than just the "given name, surname" form

Transliteration for Global Name Recognition V3.1

These optional features for Global Name Management, Global Name Scoring, and Global Name Analytics enable the Global Name Recognition technologies to recognize and process names written in the standard Arabic, Cyrillic, and Greek scripts. The application may accept names from languages written with these scripts in their native-script form. Input files can be made up entirely of non-Roman characters, of all ASCII characters (Roman script), or of a mixture of characters.

Additional platform and documentation support

Support for SUSE Linux™ for System x™ has been added across all Global Name Recognition products, except for the Global Name Reference Encyclopedia. Also supported are new Windows releases and new compilers.

GNR product documentation is now part of the IBM Information Center.

IPLA and Subscription and Support considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. You may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement (PoE). It is your responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

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Java is a trademark of Sun Microsystems, Inc.

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Publications

No publications are shipped with these products.

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http://www.ibm.com/shop/publications/order

Technical information

Specified operating environment

Hardware requirements: Hardware requirements are specific to each product deployment and are generally proportional to:

- Total number of names to be processed
- Number of name-recognition transactions to be processed per unit of time

Software requirements: Global Name Management, Global Name Analytics, Global Name Scoring, Transliteration for Global Name Management, Transliteration for Global Name Analytics, and Transliteration for Global Name Scoring

Platforms

- Windows® 2003 Server on x86 (32 bit)
- Windows 2003 Server on AMD Opteron and Intel® Xeon (64 bit)
- Sun Solaris 9 and 10 on UltraSparc III and UltraSparc IV (32 bit and 64 bit)
- Red Hat Linux™ 4 AS and SUSE Linux Enterprise 9 on x86 (32 bit)
- Red Hat Linux 4 AS and SUSE Linux Enterprise 9 on AMD Opteron and Intel Xeon (64 bit)
- IBM AIX® V5.3L on POWER™ 4 and POWER 5 (32 bit and 64 bit)
- SUSE Linux Enterprise Server 9 for IBM System z (64 bit)

Database requirements

The products require no database management software.

Compiler requirements

The products support C++ API-level access using the following compilers:

- Sun Solaris 9 and 10 (32 bit and 64 bit): Sun Studio 11
- SUSE Linux Enterprise Server 9 (32 bit and 64 bit): Free Software Foundation gcc v3.3.3
- Red Hat Linux 4 AS (32 bit and 64 bit): Free Software Foundation gcc V3.4.6
- IBM AIX V5.3L: xlC++ V7 and xlC++ V8

The products support IBM Java™ V1.5 and SOAP WebServices API-level access on all supported operating systems.

Planning
Performance and throughput for the Global Name Recognition products are generally proportional to three key factors:

- Number of CPUs available
- Clock speed of the CPU used
- RAM resources

Applications involving Global Name Analytics will generally require somewhat fewer CPU cycles and RAM, while applications involving Global Name Scoring will require greater resources in number of CPUs, CPU cycles, and RAM.

**Global Name Reference Encyclopedia**

The Global Name Reference Encyclopedia is offered only for use on Intel x86 (32-bit) processor platforms under Windows 2003 Server. It requires both:

- Microsoft Internet Information Server V6.0, or later
- Microsoft .NET SDK V2.0

Clients can access an encyclopedia instance using either:

- Microsoft Internet Explorer V6, or later
- Mozilla Firefox V2, or later

**Planning information**

**Customer responsibilities:** Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Maintenance offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

**Packaging:** IBM Global Name Management V3.1

- International Program License Agreement
- Eight CDs

**IBM Transliteration for Global Name Management V3.1**

- International Program License Agreement
- One CD

**IBM Global Name Analytics V3.1**

- International Program License Agreement
- Six CDs

**IBM Transliteration for Global Name Analytics V3.1**

- International Program License Agreement
- One CD

**IBM Global Name Scoring V3.1**

- International Program License Agreement
- Seven CDs
IBM Transliteration for Global Name Scoring V3.1

- International Program License Agreement
- One CD

IBM Global Name Reference Encyclopedia V3.1

- International Program License Agreement
- One CD

Security, auditability, and control

The IBM Global Name Recognition technologies use the security and auditability features of the host hardware or software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

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Ordering information

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Product information

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Charge metrics definitions

Server

A server is a computer system that executes requested procedures, commands, or applications to one or more user and/or client devices. A PoE must be obtained for each server regardless of the number of processors and partitions in the server on which the program runs or for each server managed by the Program. Where blade technology is employed, each blade is considered a separate Server.

Authorized user

An authorized user is one and only one individual (named or unnamed) within or outside your enterprise. A PoE must be obtained for each individual user accessing the program in any manner. A program licensed under an authorized user PoE may be installed on a single computer or server, and accessed by multiple users, provided that a PoE has been obtained for each individual user accessing the program either directly or indirectly (via a multiplexing program, device, or application server) through any means on behalf of the user.

Passport Advantage program licenses

IBM Global Name Analytics

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IBM Global Name Management

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IBM Global Name Reference Encyclopedia

Part description

IBM Global Name Reference Encyclopedia
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IBM Global Name Reference Encyclopedia
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IBM Global Name Reference Encyclopedia
IBM Global Name Reference Encyclopedia D58MLLL
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IBM Global Name Scoring

Part description

IBM Global Name Scoring
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IBM Global Name Scoring

Part description

IBM Transliteration for Global Name Scoring Transliteration for GNS Servers License and SW Maintenance 12 Months
IBM Transliteration for Global Name Scoring Transliteration for GNS Servers SW Maintenance Annual Renewal
IBM Transliteration for Global Name Scoring Transliteration for GNS Servers SW Maintenance Reinstate 12 Months

Passport Advantage supply

Program name/description

Global Name Management V3.1.0
IBM Global Name Management BB0TOEN
Multiplatform English Media Pack
IBM Global Name Reference Encyclopedia V3.1.0
IBM Global Name Reference Encyclopedia BB0T7EN
Multiplatform English MP
IBM Global Name Scoring V3.1.0
IBM Global Name Scoring BB0T5EN
Multiplatform English Media Pack
IBM Global Name Analytics V3.1.0
IBM Global Name Analytics BB0T2EN
Multiplatform English Media Pack
IBM Transliteration for Global Name Management V3.1 Multiplatform U.S. Eng MP
IBM Transliteration for Global Name Management BB0T1EN
IBM Transliteration for Global Name Management BB0T6EN
Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

**Transliteration for Global Name Management V3.1.0**

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**Transliteration for Global Name Scoring V3.1.0**

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### License Information form numbers

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Product name

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Usage restriction: Yes

Refer to the License Information document that is available on the following Web site


International Passport Agreement

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IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

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Passport Advantage
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